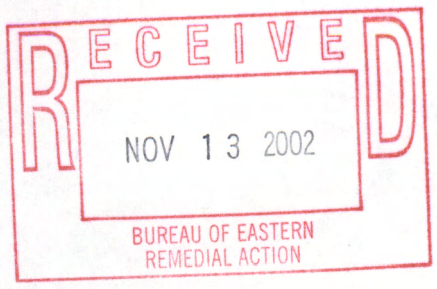
ENVIRONMENTAL SITE INVESTIGATION
MATERIAL RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

Prepared For

SONY

November 2002



Prepared By

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water & Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611

TABLE OF CONTENTS

LIST OF TABLES
(at end of report)

Table

LIST OF FIGURES
(at end of report)

Figure

LIST OF APPENDICES
(at end of report)

Appendix	
I	Geologic Logs and Well Construction Diagrams
II	Laboratory Reports and Chain of Custody Forms for Soil and Geoprobe Water Samples
III	Laboratory Reports and Chain of Custody Forms for Ground-Water Samples
IV	Notes from Rockland County Health Department File Review
V	Field Sampling Sheets
VI	Hydrographs
VII	Slug Test Results

ENVIRONMENTAL SITE INVESTIGATION
MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

1.0 INTRODUCTION

Sony Electronics, Inc, (Sony) retained Leggette, Brashears & Graham, Inc. (LBG) to perform an environmental investigation at the site located at 542 Route 303 in the Town of Orangetown, New York (figure 1). The environmental investigation was completed in accordance with the following New York State Department of Environmental Conservation (NYSDEC) approved work plan and work plan amendment:

- February 2001, "Work Plan for Additional Environmental Investigations, Materials Research Corporation, 542 Route 303, Orangetown, Rockland County, New York"
- February 2002, "Work Plan Amendment, Materials Research Corporation, 542 Route 303, Orangetown, Rockland County, New York"

2.0 SITE DESCRIPTION

2.1 Physical Characteristics

The Materials Research Corporation (MRC) property at 542 Route 303 is currently operated as a manufacturing facility which engages in metal purification and production of metal targets used in sputtering machines. The property is currently owned by Praxair Surface Technologies, Inc. and is located in Orangetown, Rockland County, New York (figure 1).

The subject property is identified on Orangetown Tax Map 70.19, Section 1, Lot 46. Access to the 2.79-acre property is unrestricted; two ingresses/egresses extend onto the site from Glenshaw Street (figure 2) and parking lots are located on the east, west and south sides of the building. The property contains an approximately 43,000 square feet (ft^2), one-story building. The original building, approximately 20,300 ft^2, was constructed in 1961; an additional 20,750 ft^2, the rear half of the building, was constructed in 1969. A final addition of 1,920 ft^2, the hazardous materials storage area, was constructed in November 1981.

The building consists of administrative offices, a cafeteria/lunch room, manufacturing areas, laboratory areas, stockrooms, two shipping and receiving areas, cleaning rooms, etching rooms, degreasing rooms, several mechanical rooms, and a hazardous materials storage area (figure 3). Most of the unpaved property is landscaped with trees, bushes and grass and one area along the north side of the building is gravel. A small drainage swale is located on the rear (west) side of the property and contains natural vegetation with trees and underbrush.

The topography of the site is generally flat but grades slightly downward toward the southeast. Building grade is at an elevation approximately 116 feet above mean sea level.

2.2 Facility Operations

The MRC facility purifies metals and forms metal targets used in sputtering machines that manufacture chips for electronic equipment. The sputtering process creates a metallic coat generated from a metal target disk (dependant on the metal required for the final product chip) onto a silicon disk. The current operations at the site are essentially unchanged since MRC began manufacturing metal targets at the facility in 1961.

2.3 Facility Utilities

The MRC property is provided a potable water supply from United Water Company and is connected to public sanitary sewers. Based on site plans for the facility dated 1969, reviewed during a file review at the Orangetown Building Department, a septic tank and leachfield existed in the front lawn area of the building at that time (figure 2). It is unknown when the facility was connected to the public sewer.

Electrical power is supplied to the site by Orange and Rockland Utility and natural gas is supplied by Texas and Ohio Utility. One pad-mounted transformer is located along the south side of the existing building (figure 2). The transformer is owned by MRC and reported to be non-PCB containing. Leaks, stains or other signs of failure are not present in the vicinity of the transformer which serves the property.

The building is heated primarily by forced air; limited baseboard heat serves the front office areas. Air conditioning units are located on the roof of the facility.

3.0 SUMMARY OF PREVIOUS INVESTIGATIONS

At the request of Sony, LBG completed a Phase I Environmental Site Assessment (ESA) for the subject property in September 1997. As part of the Phase I ESA, LBG completed a review of Federal and State environmental databases for the subject and surrounding properties pursuant to ASTM standards. In response to concerns identified during the 1997 ESA, Sony retained LBG to complete two subsurface investigations at the MRC property, and identify all releases documented by the Region II United States Environmental Protection Agency and Region III NYSDEC at and surrounding the MRC property. The Freedom of Information Act review resulted in a further detailed review of releases that had occurred at the property upgradient of the MRC facility. The further detailed files reviewed were maintained at the Rockland County Health Department (RCHD). Files were reviewed for the Interstate Distribution Center and Conrail Railway. Aluf Plastics, Glenshaw Glass Company and NYNEX were identified during the search as having environmental files and as being a former or current occupant at the now-identified Interstate Distribution Center. Pertinent information from the aforementioned files are discussed below. There were no environmental files identified for the Conrail Railway. The subsurface investigation included completion of 11 test borings, collection of surficial soil samples, and collection and analyses of ground-water and soil samples. The subsurface investigations and detailed file review are summarized below.

Areas of Concern (AOC) identified during the environmental site investigations included the following:

- The historical use of 1,1,1-trichloroethane (TCA) and the generation of metal solutions at the MRC property are substances of concern. Locations of concern include the former septic leach field on the northeastern portion of the property, the loading dock areas on the southern side of the facility, the hazardous material storage area on the western side of the facility and a former TCA storage area identified in the north-central portion of the facility (identified during the September 16, 1999 FOIL search).
- The release of highly acidic water (pH 2.0 to 3.0) from a corroded discharge pipe, which was connected to the precious metals refining room on the northern side of the facility

(near soil borings H-1 and H-2 (figure 2)).

- The potential PCB-containing pad-mounted transformer formerly located on the southern side of the facility (near soil sample locations P-1 and P-2 (figure 2)).

3.1 Field Investigation

3.1.1 Soil Investigations

To address the above areas of concern, LBG completed a subsurface investigation at the site on July 9, 1999 which consisted of the drilling of five test borings (MW-1, MW-2, MW-3, MW-4 and TB-1) hand-augured two test borings (H-1 and H-2) and collected two surficial soil samples (P-1 and P-2) at the MRC property (figure 2). Test boring MW-2 was drilled to identify the presence of any potential contaminants migrating onto the MRC property and not to investigate a potential release area. Test borings were drilled by hollow-stem auger and soil samples were collected using split-spoon samples. Soil samples were screened for the presence of volatile organic compounds (VOCs) with the use of a photoionization detector (PID). There were no VOC detections identified during the field screening. All geologic logs are shown in Appendix I.

Test borings TB-1, MW-1, MW-2 and MW-3 were drilled to address potential releases which may have occurred through the septic system leach field and at the loading and storage areas. The test borings were completed to depths ranging from 7 ft bg (TB-1) to 20 ft bg (MW-3). Soil samples from MW-1, MW-2 and MW-3 were collected and analyzed for halogenated VOCs by EPA Method 8021B and total RCRA metals. There were no detections of VOCs in any of the soil samples analyzed (table 1). Metals were detected in the soil samples at concentrations below the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) recommended soil clean-up objectives (table 2). The levels detected are representative of background soil concentrations.

Test borings H-1 and H-2 were hand-augered to investigate the reported release of highly acidic waters from the discharge pipe on the northern side of the facility, which were documented in the 1997 ESA. The test borings were completed to a depth of 4.5 ft bg. Soil samples from 4 to 4.5 ft bg were collected from these locations and analyzed for halogenated VOCs by EPA Method 8021B and total RCRA metals. There were no detections of VOCs in the

soil samples analyzed. Metals were detected at concentrations similar to background levels and below the NYSDEC TAGM recommended clean-up objectives.

Surficial soil samples were collected at locations P-1 and P-2 (figure 2) to investigate concerns over the removal of the potential PCB containing pad-mounted transformer. The soil samples were analyzed for polychlorinated bi-phenyls by EPA Method 8080. There were no detections of PCBs in the soils. Laboratory reports and chain-of-custody forms for the soil samples analyzed are provided in Appendix II.

On September 8 and 9, 1999, LBG personnel supervised the drilling of test borings MW-5S, MW-5D, MW-6S and MW-6D. MW-5D and MW-6D were drilled to the top of bedrock. Soil samples were collected and screened for the presence of VOCs with the use of a PID; there were no PID detections. No soil samples were analyzed from the test borings because of the lack of the PID responses and because the borings were located in an area identified as upgradient of potential release areas.

3.1.2 Ground-Water Investigation

Test borings MW-1, MW-2, MW-3, MW-4, MW-5S, MW-5D, MW-6S and MW-6D were all completed as monitor wells. Well construction details are provided in Appendix I and table 3. The locations of the monitor wells are shown on figure 2.

The monitor wells were surveyed by LBG personnel to an arbitrary datum to determine the direction of ground-water flow at the MRC property. Depth to ground-water measurements were taken on September 10, 1999 and used to create a water-table contour map (figure 4) for the MRC property. Table 4 includes the relative ground-water elevation data for 1999. In general, figure 4 shows that the ground water in the unconsolidated materials at the subject property flows from the northwest to the southeast. As shown, MW-5S through MW-6D were installed as upgradient monitor points to identify any VOCs which may be migrating onto the MRC property.

All ground-water samples were collected by the low-stress purging and sampling technique which is outlined in the July 30, 1996 U.S. Environmental Protection Agency Region I "Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Ground Water Samples from Monitoring Wells." The sampling procedure was initially created to address the

need to obtain accurate inorganic results from unfiltered ground-water samples. However, more recent technical literature indicates the sampling procedure produces water-quality data with more reproducible and representative results of actual conditions for both organic and inorganic analyses.

Ground-water samples were collected on July 13, 1999 from Monitor Wells MW-1 through MW-4 and analyzed for halogenated VOCs by EPA Method 8021B and RCRA metals. There were no detections of dissolved metals in any of the samples analyzed. Table 5 shows the concentrations of all detected VOCs and compares the concentrations to the NYSDEC Technical and Operational Guidance Series (TOGS). VOCs were not detected in the ground-water samples collected from Monitor Wells MW-1 and MW-2. The occurrence of the VOCs above the criteria was limited to two monitor wells (MW-3 and MW-4) located on the western and southern sides of the facility.

Ground-water samples were collected on September 10, 1999 from Monitor Wells MW-2 through MW-6D and analyzed for halogenated VOCs by EPA Method 8021B. A ground-water sample was not collected from MW-1 on September 10, 1999, because of the limited water column in the well and poor aquifer recharge characteristics. As with the previous results, there were no VOCs detected in the sample collected from Monitor Well MW-2. Table 5 shows the concentrations of all detected VOCs. VOCs were detected in the upgradient Monitor Wells MW-5S through MW-6D. All laboratory reports and chain-of-custody forms for all ground-water samples collected are shown in Appendix III.

3.2 September 16, 1999 RCHD File Review

Files containing information from the Glenshaw Glass Company and Aluf Plastics were reviewed. These properties were located on the same parcel, which is located west of the MRC facility. The Glenshaw Glass Company and Aluf Plastics warehouse were located directly west of the MRC property, while the manufacturing building and discharge outfall pipes were located southwest of the MRC property. Detailed notes from the file review are presented in Appendix IV.

Concentrations of TCA, tetrachloroethylene (PCE) and trichloroethylene (TCE) were identified in samples collected from the Glenshaw Glass Company Wells 1 and 2. These wells

are assumed to be set in bedrock. High concentrations of VOCs, including TCE, were identified in a sump located in the southern portion of the Glenshaw Glass Company manufacturing facility, the stream located near two outfall pipes which discharge to the stream from the facility and at two locations identified as catch basins. A relatively high concentration of TCA (869 ppb (parts per billion)) was identified in a 1981 surface-water sample collected in a catch basin located 30 feet west of Route 303 and Glenshaw Street. There was no map identifying the location of this sample, but the description locates it close to the MRC property.

The file review indicated that a total of five monitor wells have been installed on the property during subsequent investigations. There were no detections of VOCs in any of the samples collected from the monitor wells. Two of the monitor wells were located north of Glenshaw Street, upgradient of the MRC property. Files for Aluf Plastics identified a machine repair shop located at the northeast corner of the manufacturing facility. Neither of the monitor wells discussed were located downgradient of this portion of the manufacturing facility. It is LBG's understanding that additional subsurface investigations have occurred at the property during 2000, however, the results of the investigations have not been obtained by LBG for review.

3.3 Results of Previous Investigations

Soil samples were collected near the southern loading dock, hazardous waste storage area, former septic leach field and acidic water release area and analyzed for the presence of halogenated VOCs. There were no detections of halogenated VOCs in any of the samples collected.

Soil samples were collected from MW-1, MW-3, MW-4, H-1 and H-2 and analyzed for RCRA 8 metals. Metals were detected in the soil samples at concentrations below the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) recommended soil clean-up objectives. The levels detected are representative of background soil concentrations. Ground-water samples were collected from MW-1 through MW-4 and analyzed for RCRA 8 metals. The only metal detected was barium at concentrations ranging from 0.52 to 0.90 milligrams per liter (mg/l). The results are not indicative of a release of RCRA 8 metals.

The results of VOC ground-water quality and ground-water flow data are incorporated into the conclusions section at the end of this report.

4.0 FIELD INVESTIGATION

Between October 29 and November 6, 2001 and March 26 and April 19, 2002, LBG completed an extensive field investigation at the site consisting of drilling 56 soil borings, collection and analysis of 44 soil samples, installation of 16 monitor wells and collection and analysis of 35 ground-water samples.

The investigation was completed in two phases. The first phase of the field investigation was completed in accordance with the February 2001, "Work Plan for Additional Environmental Investigations, Materials Research Corporation, 542 Route 303, Orangetown, Rockland County, New York." The scope of work described in this work plan was developed during communications between Sony and the NYSDEC. In general the plan consisted of the collection of soil and ground-water samples throughout the site using the probing/direct-push method with a drill-rig mounted on a truck (Geoprobe rig). During this field investigation, a total of 40 soil borings were drilled and 14 ground-water and 26 soil samples were collected for analysis. This drilling operation occurred between October 29 and November 6, 2001. The drilling operation was halted because of slow progress and because the Geoprobe drill rig was unable to penetrate the deeper unconsolidated materials.

The second phase of the investigation was completed in accordance with the February 2002, "Work Plan Amendment, Materials Research Corporation, 542 Route 303, Orangetown, Rockland County, New York." This amendment was developed during a joint meeting of Sony, NYSDEC and LBG personnel. This investigation included the drilling of 16 soil borings, installation of 16 monitor wells and the collection and analysis of 7 surficial soil samples, 11 boring soil samples and 21 ground-water samples. Details describing these field investigations are presented below.

4.1 Drilling of Soil Borings, Collection of Soil Samples and Installation of Monitor Wells

Between October 29 and November 9, 2001, LBG and NYSDEC staff supervised the drilling of 40 soil borings (figure 2; B-1, B-2, B-6, B-7, B-7A, B-8, B-8A, B-9, B-13, B-14, B-15, B-15A, B-16 and all noted incomplete borings). The soil borings were drilled by Zebra Environmental, Inc. of Lynbrook, New York, using a Geoprobe rig. Soil samples were collected using a macro-core sampler, which measured 2 inches in diameter by 24 inches in length, and was fitted with a disposable acetate liner. The soil borings were drilled to depths ranging from 2 to 40 feet below grade (ft bg). Soil samples were collected every 10 feet. All soil samples from each boring were logged and then placed into dedicated, sealed plastic bags. The resultant headspace within each plastic bag was screened for the presence of VOCs with a photoionization detector (PID) that was calibrated to an isobutylene standard. No VOCs were detected in any of the samples (Appendix I). All soil samples were containerized, properly labeled, and then placed into an ice-chilled cooler for delivery to York for analysis of halogenated VOCs by EPA Method 8021B. Table 1 and 5 presents a summary of all soil and ground-water samples collected for laboratory analysis. Duplicate soil samples were collected every 10 samples, while triplicate samples were collected every 20 samples (total of two duplicate samples and one triplicate sample).

Geologic logs are presented in Appendix I. Laboratory reports and chain-of-custody forms are presented in Appendix II. Note that the Category B quality assurance and quality control documentation is maintained at LBG.

As identified in previous investigations, the unconsolidated materials at the site are extremely compact and not conducive to drilling with a Geoprobe rig. During this portion of the drilling investigation two steel macrocore samplers split due to the dense nature of the unconsolidated material. The drilling program was halted because of slow progress due to the difficult drilling conditions at the site.

An alternative investigative approach was developed by Sony, NYSDEC and LBG personnel to more productively investigate the environmental condition of the site. The investigative approach which is detailed in the February 21, 2002 Work Plan Amendment, included the use of a hollow-stem auger drill rig. The drilling portion of this investigation

occurred between March 26 and April 4, 2002. During this time, LBG and NYSDEC supervised the drilling of 16 soil borings (MW-3D, MW-4D, MW-7S, MW-7D, MW-8S, MW-8D, MW-9S, MW-9D, MW-10S, MW-10D, MW-11S, MW-11D, MW-12, MW-13, MW-14S, and MW-14D), collected seven shallow soil samples and 16 boring soil samples for analyses (figure 2). All of the soil borings were completed as monitor wells. Ten locations were designed as cluster wells (due to water-table conditions identified during the investigation, only eight locations were completed as cluster wells). The soil borings and monitor wells were drilled/installed by Soiltesting, Inc. of Oxford, Connecticut.

All soil boring clusters were drilled using the hollow-stem auger drilling method. The deep soil borings in each cluster were sampled every 5 feet until bedrock with use of a split spoon, with the exception of Monitor Well MW-4D. Split-spoon samples were collected every 5 feet until the water table (23 feet below grade) at Monitor Well MW-4D. Split spoons were decontaminated before and between each use. Decontamination procedures included brushing with an Alconox wash, followed by a deionized water rinse.

All soil samples were collected then logged and placed into a dedicated, sealed plastic bag. The resultant headspace within the plastic bag was screened for the presence of VOCs with a PID that was calibrated to an isobutylene standard. Once soil samples were identified for analyses, the samples were containerized, properly labeled, and then placed into an ice-chilled cooler for delivery to York for analysis. At least one sample per borehole was analyzed for halogenated VOCs by EPA Method 8021B.

Table 1 identifies all soil samples collected for laboratory analyses. Duplicate soil samples were collected every 10 samples, while triplicate samples were collected every 20 samples (total of two duplicate samples and one triplicate sample). Geologic logs are presented in Appendix I. Laboratory reports and chain-of-custody forms are presented in Appendix II.

Each monitor well was installed with 0.010-inch slotted, flush-joint PVC screen set from the bottom of the borehole and measuring 10 to 15 feet in length. Two-inch diameter PVC casing was installed from the top of the screen to grade. The annular space in the vicinity of the well screen was filled with FilterSil No. 00 gravel pack. At a minimum, a 2-foot bentonite and/or grout seal was placed above the screen setting. Soil cuttings were used for backfill from

the top of the bentonite seal to approximately 2 ft bg. The monitor wells were completed with steel cased road boxes set in cement. All of the monitor wells were covered with watertight locking well caps. Construction details for each monitor well are presented in the geologic logs and well construction diagrams located in Appendix I and on table 3.

Following completion of the monitor wells, LBG personnel surveyed the top-of-casing elevations for all monitor wells. The survey was based on an arbitrary onsite benchmark of 100 feet. The results of the survey are presented in table 3. The monitor wells were developed by surging and bailing with a clean PVC bailer until dry or until the purge water was free of heavy sediment.

Seven surficial soil samples (S-1 through S-7 on figure 2) were collected with use of a clean stainless steel trowel. The samples were containerized, labeled and placed in an ice chilled cooler until delivery to York Analytical Laboratories for analyses of halogenated VOCs by EPA Method 8021B.

4.2 Ground-Water Sampling

Between October 29 and November 9, 2001, LBG and NYSEDC personnel collected ground-water samples from the Geoprobe boreholes with use of a screen point sampler for analyses of halogenated VOCs by EPA Method 8021B. Ground-water samples were collected at every 10-foot interval that was identified to be saturated. Ground-water samples were collected with use of a peristaltic pump or bailer. The table below identifies the locations and depths at which ground-water samples were collected. Laboratory reports and chain of custody forms are presented in Appendix II. The Category B quality assurance and quality control documentation is maintained at LBG.

Location	Depth (ft bg)
B-1	20 30
B-2	20
B-3	20 30 40
B-7	20

Location	Depth (ft bg)
B-8	20
B-13	20
B-15	28

The collection of ground-water samples was extremely difficult because of the fine and dense nature of the materials encountered. Ground water did not drain from these materials readily, in fact at most locations it took at least 2-hours for enough water to drain from the unconsolidated materials into the sampling apparatus to fill the two 40 milliliter sample containers. The Geoprobe drilling investigation was halted as a result of the slow drainage of the aquifer and difficult drilling conditions.

On April 19, 2002, ground-water samples were collected from 19 site monitor wells (MW-2, MW-3D, MW-4D, MW-5S, MW-5D, MW-6S, MW-6D, MW-7S, MW-7D, MW-8D, MW-9S, MW-9D, MW-10S, MW-10D, MW-11S, MW-11D, MW-12, MW-13 and MW-14D). Note that MW-3S, MW-4S, MW-8S and MW-14S were dry at the time of sampling. A triplicate sample was collected from MW-13.

All ground-water samples were collected using the low-stress purging and sampling technique. Ground water was drawn from the monitor wells through Tygon tubing with a peristaltic pump at and an approximate rate of 140 ml/min (milliliter per minute). Each sample was collected once stabilization for three consecutive readings was achieved for the following parameters and variance: turbidity (10 percent for values greater than 1 NTU), dissolved oxygen (10 percent), specific conductance (3 percent), temperature (3 percent), pH (+/-0.1 unit) and oxygen reduction potential (+/- 10 millivolt). Once collected, ground-water samples were placed into an ice-chilled cooler for delivery to York for analyses. Field sampling sheets are shown in Appendix V. Laboratory reports and chain-of-custody forms are presented in Appendix III.

5.0 GEOLOGY AND HYDROGEOLOGY

5.1 Composition of Unconsolidated Materials

Unconsolidated materials encountered during the investigations primarily consisted of reddish-brown fine sand with some silt to reddish-brown clay with some silt. Geologic cross

sections through the site are shown on figures 5 through 7. The locations of the cross sections are shown on figure 2. As shown on figure 2 and presented in the geologic logs (Appendix I), finer grained materials primarily consisting clay and silt were identified on the western portion of the site. Unconsolidated materials on the remaining portion of the site primarily consisted of fine sand and some silt with lenses of silts and fine sand (figures 6 and 7).

All unconsolidated materials at the site should be considered poor water bearing units. During the field investigations, unconsolidated materials at the property were observed to have an extremely low permeability. In fact, during the drilling of several monitor wells, the unconsolidated materials in the saturated zone were observed to be damp, and not wet. As noted, it took approximately two hours for enough water to drain at each Geoprobe ground-water sampling point to fill the two 40 ml sample containers.

5.2 Composition of Bedrock

Bedrock was encountered in thirteen soil borings (table 3) ranging from 17 to 50 ft bg. Bedrock was observed to consist of a red sandstone. This correlates with the mapped Brunswick Formation of the Newark Group of Upper Triassic age. In general, bedrock was noted to rise from the western to eastern portion of the site (figure 5). Depth to bedrock on the western portion of the site was observed at 44 to 50 ft bg, while depth to bedrock was observed at 17 to 35 ft bg on the eastern portion of the site. Bedrock was identified to be shallowest on the northwest portion of the site.

5.3 Characteristics of Ground Water

5.3.1 Depth to Water Levels

Depth to ground-water levels have been measured at the site during 1999 through 2002 (Table 6). During 1999, the depth to ground water at the site ranged between 1.8 and 16.5 feet below the top of the well casing (ft bc). During the drought of 2002, depth to ground water ranged between 4.7 to 24.7 ft bc. As shown on table 6, ground-water elevations were observed to decline as much as 19.7 feet (MW-5D) from 1999 to 2002. The substantial decline in water levels at the site is attributed to below normal precipitation levels measured during 2001 and 2002. While a drop in water levels is anticipated during a drought period, this decline is magnified by the low permeability material identified at the site.

Water levels moderately recovered from May 2002 through August 2002. Water levels rose across the site from 2.1 to 13.6 feet. The greatest recovery was shown in Monitor Wells MW-5D and MW-6D, locations identified to consist of primarily clay and silt. Water levels in these wells rose at least 6.5 feet more than any other location at the site. Note that Monitor Wells MW-5S and MW-6S rose only approximately 2 feet during this same period.

5.3.2 Vertical Flow Direction and Magnitude

A relative survey of the site wells was completed on May 14, 2002. Depth-to-water levels were used with the relative survey to determine ground-water flow direction at the site and magnitude of vertical flow. Table 7 show the magnitude of vertical flow between the shallow and deeper saturated unconsolidated materials at the site. Hydrographs of all monitor wells are presented in Appendix VI. In general, the magnitude of vertical gradients shown at the site are dependent on location. A large downward vertical flow gradient (15.62 and 12.41 feet) was shown on the western edge of the site (MW-5 and MW-6 clusters) during April 2002. This indicates a poor connection between the shallow and deep saturated materials on the western edge of the property. During August 2002, the of vertical flow gradients at MW-5 and MW-6 clusters was 4.38 and 0.61 feet, respectively. This is a significant decrease in the magnitude of vertical flow from the April measurements. Note that an upward vertical flow direction was shown at Monitor Well Cluster MW-6 during 1999.

The vertical flow direction in Monitor Well MW-8 cluster was shown to be consistently upward during 2002, while a downward and upward vertical flow was shown at the Monitor Well MW-3 cluster. Moving directly south of these wells, the Monitor Well clusters MW-7 and MW-9 have shown downward vertical flow directions. The difference in the vertical flow directions and magnitude of the vertical flow along this north-south transect (MW-8, MW-3, MW-7 and MW-9 clusters) is important for interpreting and understanding the ground-water flow direction at the site. Note that a storm water discharge point is located at the western unnamed tributary between MW-5 and MW-6. During 2001 and 2002, surface water was observed to only be present at and south of the storm-water discharge point. This tributary and storm water drains to the shallow aquifer on the southwestern portion of the site. At the MW-6 cluster, a large downward vertical flow gradient is shown, indicating the poor connection

between the shallow and deeper unconsolidated materials. This corresponds with the clay and silt materials shown at this location. Slightly coarser materials are shown approximately 75 feet east of this location (north-south transect of MW-8, MW-3, MW-7 and MW-9). As shown on figure 8 and table 4, water elevations are approximately 6 feet higher in MW-7S and MW-9S as compared to MW-8S and MW-3S. These higher elevations are attributed to the recharge from the water in the unnamed tributary south of the storm-water discharge point. In addition, because slightly coarser materials are shown along this transect, the deeper unconsolidated materials at MW-7 and MW-9 clusters are also recharged from the tributary.

Relatively minor vertical flow gradients are shown in the remaining four monitor well clusters (MW-4, MW-10, MW-11 and MW-14), which are located on the south central portion of the site. The only upward vertical flow direction identified in these wells was at the MW-10 cluster during the August 2002 measurement.

Additional monitoring is required to determine flow directions and gradients during the different seasons of the year. As evident by the April 2002 measurements, it is clear that during periods of low recharge, a general downward vertical flow direction is shown throughout the site.

5.3.3 Water Table and Potentiometric Surface

Figure 4 shows the September 10, 1999 water-table map for the site, which is prior to the substantial decline in the water levels measured in 2001 and 2002. In general, this water-table map shows that ground water at the site flows from the northwest to the southeast. Figures 8 and 10 shows water-table contours for July 25 and August 30, 2002, which corresponds to periods of lower recharge periods at the site. As discussed in section 5.3.2, ground-water elevations in MW-7S and MW-9S were approximately 6 feet higher than those measured in MW-8S and MW-3S. These higher elevations are attributed to the recharge from the water in the unnamed tributary south of the storm-water discharge point. Figures 8 and 9 reflect this recharge by the larger horizontal gradients shown between MW-6S and MW-7S as compared to MW-5S and MW-3S. Nonetheless, as shown on figures 8 and 9, both water-table maps show the general shallow ground-water flow direction is from the northwest to the southeast. This is similar to the flow direction shown during the normal higher recharge period of September 10, 1999.

As noted, ground-water flow at the site is generally from the northwest to the southeast. The hydraulic gradient throughout the site ranges from 0.011 in the southeastern portion of the site to 0.094 in the northwestern portion. The overall average hydraulic gradient for the site is approximately 0.039.

Figures 10 and 11 show potentiometric surfaces for July 25 and August 30, 2002. The potentiometric surface for July 25, 2002 shows a potentiometric mound located near MW-7D and MW-9D. As discussed in section 5.3.2, the higher elevations shown in MW-7D and MW-9D as compared to MW-6D is because of coarser unconsolidated materials allowing drainage to the deeper aquifer. In addition, the higher elevations in these deeper wells as compared to MW-3D and MW-8D are the result of the additional recharge to this area as a result of the storm-water outfall draining into the southwestern tributary. The ground-water flow direction on the July 25, 2002 potentiometric surface is shown to be to the west, north and east, with the mound on the southwestern portion of the site. It is unclear the magnitude this artificial mound has on the overall deep ground-water flow. This mound is not shown on the August 30, 2002 potentiometric surface. This is because ground-water levels have recovered to more normal levels. This potentiometric map shows the overall ground-water flow to be from the west to the southeast.

5.3.4 Hydraulic Conductivity Testing and Ground-Water Flow Velocity

Between August 14 and September 4, 2002, slug tests were conducted in several monitor wells in order to determine the hydraulic conductivity of the saturated sediments throughout the site. Slug tests were completed at 4 wells on the western half of the site and 3 wells on the eastern half of the site. Upon removal of the well caps, the expansion plugs were pulled and the wells were given time to equilibrate in order to obtain accurate depth-to-water readings. Prior to each test static water level was measured to the nearest 1/100 of a foot using an electric tape. A pressure transducer connected to an In-Situ, Inc. minitroll PXD data logger was placed near the bottom of the well and the static water level was entered. After several measurements of depth to water were measured to confirm that the wells had returned to static levels, the data logger was activated. Once the data logger had taken several readings to determine a baseline, water levels were displaced by inserting a 6-foot air-tight steel slug. The change in the water level over

time was recorded until levels had recovered at least 70 percent of the original displacement. Depth-to-water readings that had been recorded by the data logger were then extracted from the device and stored in the form of data files. The data was then used to calculate hydraulic conductivity values using the Bouwer-Rice Method (Bouwer and Rice, 1976). Hydraulic conductivity in the wells tested ranged from 0.06 ft/day to 3.2 ft/day as shown on table 8 and presented in Appendix VII. The median hydraulic conductivity across the site is 0.60 ft/day.

Onsite, the ground water generally flows from the northwest to the southeast, discharging in the direction of the State Route 303 and Glenshaw Street intersection. The ground-water flow generally follows the surface bedrock surface topography. The overall hydraulic gradient onsite was determined to be 0.039 ft/ft. This gradient is relatively uniform throughout the site. The median hydraulic conductivity across the site is 0.60ft/day.

With the use of Darcy's Law, a ground-water flow velocity was approximated across the site utilizing the overall site hydraulics gradient (0.039 ft/ft), median hydraulic conductivity (0.60 ft/day) and approximate site effective porosity of 40 percent (Peyton, G.R. and others, 1986 & Fetter 1988). Therefore, the average ground-water flow velocity across the site is 0.058 ft/day (approximately 21 feet per year). This is an extremely low ground-water flow velocity. Note that any VOCs identified in the site ground water would be moving at a notably slower rate because these types of constituents tend to strongly sorb to the finer silts and clays identified at the site. Considering the ground-water flow velocity at the site, it is reasonable to conclude that the migrations of VOCs at the site would be dominated by diffusion and dispersion, rather than advective flow.

6.0 RESULTS OF INVESTIGATION

6.1 Soil-Quality Results

Table 1 summarizes all detected volatile organic compounds in the soil samples analyzed, while laboratory results and chains-of-custody forms are presented in Appendix II.

Seven surficial soil samples (S-1 through S-7 on figure 2) were collected from throughout the site and analyzed for VOCs. The samples were collected to determine if there was a potential

of contact with the VOCs previously identified in the ground water. No VOCs were detected in any of the samples.

A total of 37 soil samples were collected for analyses of VOCs during the 2001 and 2002 subsurface investigations. As shown on table 1, trace concentrations of trichlorthane (TCE), tetrachloroethylene (PCE), (cis) 1,2-dichloroethylene ((cis) 1,2-DCE) and/or methylene chloride were detected in nearly all 26 soil samples collected during the Geoprobe drilling investigation of 2001. All of these samples were collected from saturated soils. The results of the total VOC detections ranged from 3 to 49 ug/l. These trace detections are not indicative of source VOC materials, but rather the soil water contained in the soil samples.

Eleven soil samples were collected for VOC analyses during the 2002 hollow-stem auger drilling investigation. TCE was detected at 3 ug/l in the MW-3D (5 to 7 ft bg) sample, while TCE and (cis) 1,2-DCE were detected at 36 ug/l and 10 ug/l in the MW-7D (10 to 12 ft bg) sample, respectively. While not apparent in the field, both samples were collected from the saturated zone. These trace detections do not represent source VOC material. No other VOCs were detected during the 2002 drilling investigation.

As shown on table 1, no VOC source materials were identified in any soil samples analyzed during the 1999, 2001 and 2002 investigations. In addition, no VOCs have been detected in any of the soil samples collected during all of the investigations and screened with a PID. All VOC soil sample results were within the NYSDEC TAGM recommended soil clean-up objectives (table 1).

6.2 Ground-Water Quality Results

Table 5 summarizes all detected constituents in the ground-water samples, while laboratory results and chains-of-custody forms are presented in Appendix III. As shown on table 5, TCE, 1,1,1-trichloroetnae (TCA), PCE, 1,1-dichloroethylene (DCE), 1,1-dichloroethane (DCA), (cis) 1,2-DCE, (trans) 1,2-dichloroethylene ((trans) 1,2-DCE), chloroform and vinyl chloride (VC) were detected in many of the ground-water wells sampled. A discussion of each of the primary constituents follows.

6.2.1 Tetrachloroethylene

PCE is a virgin product constituent and is not a breakdown component of any constituent identified on site. It is important to note that PCE does breakdown to TCE, but not TCA. As shown on table 5, PCE has only been detected in Monitor Wells MW-5D (ND<1 to 3.6 ug/l), MW-6D (ND<1 to 7.9 ug/l) and MW-12 (3,700 ug/l). Trace detections of PCE have historically been detected in Monitor Wells MW-5D and MW-6D, which are located on the upgradient portion of the property. The highest concentration of PCE identified at the site was identified in the downgradient Monitor Well MW-12. Accounting for the site ground-water characteristics and distribution and magnitude of PCE occurrences at the site, the occurrence of PCE in MW-12 would not be the result of the PCE detections in the MW-5D and MW-6D samples.

The peak concentration of PCE identified at the site was 3,700 ug/l (at Monitor Well MW-12). The published solubility for PCE is 150,300 ug/l (Horvath, 1982). A concentration of 3,700 ug/l is approximately 2.5 percent of the solubility of PCE. The rule-of-thumb for an indication of possible Non Aqueous Phase Liquids (NAPLs) is to have at least 1 to 10 percent of the VOC's solubility in a water sample. The concentration of PCE identified at Monitor Well MW-12 is within 1 to 10 percent of the solubility of PCE. Therefore, there is the potential that NAPL is located within the vicinity of Monitor Well MW-12, on or off of the site.

Additional ground-water sampling and potentially subsurface investigations are necessary to determine the location and further assess the possibility of NAPLs. Note that it is unclear if the potential source area for the PCE is located on the MRC property or on the adjacent street or southern property. The concentrations of PCE in MW-12 could be the result of diffusive and dispersive flows from these adjacent properties. No PCE was identified in ground-water samples collected from Boring B-15 or in the MW-11 cluster. In addition, no source VOCs were detected in any of the soil samples analyzed or screened from borings B-14, B-15 and Monitor Wells MW-11D and MW-12. As indicated in section 5.0, flow at the site in general follows the surficial bedrock topography and contaminant migrations would be dominated by dispersion and diffusion because of the extremely slow ground-water flow velocity. Therefore, the PCE detection in MW-12 could represent the fringe of a release that occurred off of the MRC property. Note that as discussed in section 3.2 and presented in Appendix IV, releases of

halogenated VOCs have been documented on the western abutting manufacturing property. In addition, there is no supporting evidence to suggest that the operations at MRC caused the source of contamination found at MW-12.

6.2.2 Trichloroethylene and Breakdown Constituents

As noted above, TCE is a breakdown constituent of PCE and is also a virgin product constituent. TCE has been identified in ground-water samples collected from Borings B-3, B-7, B-8, B-13 and B-15 and in Monitor Wells MW-3S, MW-3D, MW-4S, MW-4D, MW-6S, MW-6D, MW-7S, MW-7D, MW-9S, MW-9D, MW-10S, MW-10D, MS-11S, MW-11D, MW-12, MW-13 and MW-14D (table 5 and figure 13).

Concentrations of TCE at MW-6D have increased from 9.5 ug/l in 1999 to 140 ug/l in 2002 (table 5). TCE has a relatively high water partition coefficient of 2.42 (Hansch, 1985), which indicates that TCE should sorb relatively easily to the unconsolidated materials at the site, tending to provide more repeatable concentrations assuming no new release has occurred. Therefore, this increase in concentration at MW-6D is somewhat unusual. Concentrations of TCE in MW-9D and MW-7D are approximately 6 times higher than the concentration identified in MW-6D. In addition, repeatability has been shown in Monitor Well MW-4S during 1999. Therefore, the increase in TCE concentrations at MW-6D is likely attributed to the potentiometric mound identified in the July 25, 2002 potentiometric surface for the site. This mound would facilitate the migration/dispersion/diffusion of PCE from the MW-7 and MW-9 region to the rear of the property.

Similar concentrations of TCE are identified in ground-water samples obtained from monitor wells MW-7D and MW-9D of 850 ug/l and 900 ug/l, respectively (figure 13). Somewhat lower concentrations of TCE have been identified in the MW-4 cluster (270 to 330 ug/l). Further downgradient of these wells, concentrations of TCE are shown at lower concentrations in ground-water samples obtained from borings B-13, B-15 and in Monitor Wells MW-10 cluster, MW-11 cluster and MW-13. This would indicate that the migration of TCE is not dominated by advective flow, but rather diffusion and dispersion. The slow migration of TCE is allowing the VOC to breakdown to daughter constituents such as (cis) 1,2-DCE and vinyl chloride (table 5 and figures 14 and 15).

The chemical distribution of TCE, DCE and vinyl chloride indicates that a potential source area is located on the western portion of the property, likely east the MW-7 cluster and north of the MW-4 cluster. This conclusion is based on the observation that these are the only locations on the site in which relatively high concentrations of TCE occur with generally high concentrations of (cis) 1,2-DCE and vinyl chloride. In a diffusive, dispersive and anaerobic environment (field sheets in Appendix V), one would anticipate this type of degradation to occur within or near a source area. The concentrations of TCE in the ground water do not suggest that a source is located at the MW-7 or MW-4 clusters, but rather these concentrations would represent the fringe of the edge TCE plume.

TCE was detected in MW-12 at a concentration of 21,000 ug/l. As discussed previously, MW-12 is located on the downgradient edge of the property and no other wells upgradient of it show concentrations of this magnitude. The concentration of TCE in this location is likely attributed to the breakdown of PCE in this area or a separate release. The data does point toward the existence of NAPLs below the water table. The concentration of TCE at MW-12 is 21,000 ug/l (micrograms per liter). The published solubility for TCE ranges from 1,100,000 ug/l (NIOSH, 1983). A concentration of 21,000 ug/l is approximately 1.9 percent of the solubility of PCE. This percentage of PCE indicates the possibility of NAPL in a water sample.

6.2.3 1,1,1-Trichloroethane

TCA is a virgin product constituent and is not a breakdown component of any constituent identified on site. TCA does follow a similar breakdown path as TCE, with slight deviations. As shown on table 5 and figure 16, TCA has been identified in Borings B-7, B-8 and Monitor Wells MW-3 cluster, MW-4 cluster, MW-5 cluster, MW-7S, MW-8D, MW-9 cluster and MW-14D. TCA has been detected at relatively low concentrations in ground water, ranging from 1.5 to 62 ug/l. In every sampling event, TCA has been detected in at least one of the upgradient Monitor Wells MW-5 and MW-6 clusters. Releases of TCA to the ground water on the western abutting property are well documented (Section 3.2 and Appendix IV). The chemical distribution of TCA and concentrations identified do not indicate a source is located on the site. It is more likely that these concentrations represent slugs of TCA migrating off of the western property onto the site.

6.2.4 Total Volatile Organic Compounds

Figure 17 shows that two separate areas of relatively high VOC concentrations are present at the site. The first location is near the MW-7 cluster. As discussed, the likely source of these detections is to the east of the MW-7 cluster and north of the MW-4 cluster. The second area of high VOCs is located near MW-12. The detections in MW-12 are generally isolated from the rest of the site and it is not clear if the source of these VOCs is located on the site.

7.0 DATA GAPS

Data gaps identified during the Environmental Site Investigation are presented below.

- Additional monitoring is required to determine flow directions and gradients during the different seasons of the year.
- Only one round of ground-water samples have been collected from most of the site monitor wells. This round was collected during drought conditions at the site. Additional monitoring would be needed to assess trends in ground-water quality.
- The results of the subsurface investigations revealed the potential of two VOC source areas at or near the site. The first is potentially located beneath the southwestern portion of the MRC building and the second is located near the southeastern portion of the site. Additional work would be needed to define the precise location of the release and characterize these potential source locations.
- The source of VOCs identified near MW-12 is unknown. Potential sources of the VOC concentrations identified in this area includes the potential illegal disposal of contaminants by non-MRC employees to the offsite storm-water drainage system that runs parallel to site's southeast property boundary.

8.0 CONCLUSIONS

1. Unconsolidated materials encountered during the investigations primarily consisted of reddish-brown fine sand with some silt to reddish-brown clay with some silt. Finer

grained materials consisting primarily of silts and clays were identified on the western edge of the site. The thickness of the unconsolidated materials was identified to range from 17 to 50 feet. The underlying bedrock consists of red sandstone.

2. In general, ground-water flow follows the surficial topography of the bedrock, flowing from the northwest to the southeast. An ephemeral ground-water mound was observed during July 2002. This mound was caused by recharge from the discharge outlet and tributary. The mound is only apparent during significant dry periods and appears to have an impact on chemical distribution at the site.

3. The ground-water flow velocity at the site was determined to be approximately 0.06 feet per day or 21 feet per year. The extremely low permeability material at the site does impact the solute transport at the site. Solute transport in the ground water is dominated by diffusion and dispersive flow rather than advective flow.

4. The MRC building was originally constructed in 1961, and expanded in 1969 to approximately twice its original square footage of 20,000 ft^2. A Hazardous Materials Storage Area (HMSA) was completed in 1981. The facility is connected to public water and sewer systems. Natural gas and electric are supplied to the site by Texas and Ohio Utilities.

5. Seven surficial soil samples were collected and analyzed to determine the potential for contact with VOCs. No VOCs were identified in the shallow soils at the site. There is no evidence to suggest that direct exposure of VOCs is a potential concern.

6. No residual sources of VOCs were identified in the unsaturated soils during the subsurface soil investigations.

7. Halogenated VOC releases to the tributary south of the site and to the ground-water have been documented for the manufacturing facility located west and upgradient of the site. Some halogenated VOCs are entering the site ground water from this property.

8. TCA was identified in 14 of the 31 ground-water sampling locations. The distribution and concentration of the TCA concentrations indicates that there is no TCA source on site. In addition, the TCA detections on site are likely the result of slugs TCA entering the site from the western/upgradient manufacturing facility.

9. The results of the subsurface ground-water investigations revealed the potential of a VOC source area located beneath the southwestern portion of the MRC building. Transport of the plume emanating from this source area appears to be dominated by diffusive and dispersive flow. Degradation of the potential source material (TCE) is occurring. Generally low concentrations of VOCs are identified downgradient of the source area. The data indicates that the VOC plume attributed to this release is primarily contained on the site.

10 A second potential VOC source area was identified near the southeastern portion of the site. Concentrations of TCE and PCE in the groundwater near MW-12 suggest the potential presence of NAPL near this area. The potential source area contains TCE and PCE. It is unclear if this source area is located on the site.

LEGGETTE, BRASHEARS & GRAHAM, INC.

Michael Manolakas /cmp

Michael A. Manolakas
Associate

Affirmed by:

Robert Lamonica, CPG, LEP
Principal

ng
November 11, 2002
H:\SONY\2002\542 Route 202\542 Route 303 Environmental Investigation.doc

REFERENCES

Darcey, H. P. G., 1856 "Les Fontaines Publique De La Ville De Dijon: Paris, Victor Dalmont"

Fetter, C.W., 1988, "Applied Geohydrology (2nd ed.)", Merrill, Columbus.

Hansch, C. and Leo, A. J., 1985 "Medchem Project Issue No 26. Clarmont CA", Pomona College.

Horvath, A. L., 1982 "Halogenated Hydrocarbons: Solubility-Miscibility with Water. New York, NY", Marcel Dekker, Inc. pp 889.

Howard, Philip, Robert Boethling, William Jarvis, William Meylan and Edward Michalenko, 1991, "Handbook of Environmental Degradation Rates", Lewis Publishers, Inc.

Peyton, G.R. and others, 1986 "EPA/600/9-86/022", pp. 21-28.

United States Geological Survey, 1967, Photorevised 1979, "Nyack Quadrangle, New York."

TABLES

TABLE 1

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

Summary of Volatile Organic Compounds Results in All Soil Samples Collected

Sample Location	Sample Depth (ft bg)	Date Sampled	Trichloroethylene (ug/kg)	Tetrachloroethylene (ug/kg)	(cis)1,2-Dichloroethylene (ug/kg)	Methylene Chloride (ug/kg)
B-1	10	10/29/01	ND<5	4J	ND<5	ND<5
B-1	20	10/29/01	ND<5	3J	ND<5	ND<5
B-1	30	10/29/01	ND<5	3J	ND<5	ND<5
B-2	10	10/30/01	ND<5	4J	ND<5	ND<5
B-2	20	10/30/01	ND<5	3J	ND<5	ND<5
B-3	10	10/30/01	ND<5	3J	ND<5	ND<5
B-3	20	10/30/01	ND<5	3J	ND<5	ND<5
B-3	30	10/31/01	ND<5	3J	ND<5	ND<5
B-3	40	10/31/01	3J	3J	ND<5	ND<5
B-6	10	11/07/01	ND<5	6	ND<5	20B
B-6 (Duplicate)	10	11/07/01	ND<5	6	ND<5	19B
B-7	10	11/02/01	5	3J	ND<5	ND<5
B-8	10	10/31/01	22	3J	ND<5	ND<5
B-8	20	11/01/01	ND<5	17	ND<5	ND<5
B-9	10	11/08/01	ND<5	6B	ND<5	36B
B-9 (Duplicate)	10	11/08/01	ND<5	8B	ND<5	32B
B-9 (Triplicate)	10	11/08/01	ND<5	7B	ND<5	31B
B-13	10	11/08/01	ND<5	6B	ND<5	42B
B-13	20	11/09/01	ND<5	6B	ND<5	43B
B-14	10	11/05/01	ND<5	5	ND<5	24B
B-14	20	11/06/01	ND<5	5	ND<5	19B
B-15	10	11/02/01	ND<5	3J	ND<5	ND<5
B-15	20	11/02/01	ND<5	3J	ND<5	ND<5
B-15	28	11/05/01	ND<5	6	ND<5	19B
B-16	10	11/06/01	ND<5	6	ND<5	20B
B-16	20	11/06/01	ND<5	6	ND<5	20B
MW-1	10 to 11	07/09/99	ND<5	ND<5	ND<5	ND<5

TABLE 1
(continued)

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

Summary of Volatile Organic Compounds Results in All Soil Samples Collected

Sample Location	Sample Depth (ft bg)	Date Sampled	Trichloroethylene (ug/kg)	Tetrachloroethylene (ug/kg)	(cis)1,2-Dichloroethylene (ug/kg)	Methylene Chloride (ug/kg)
MW-3	3 to 5	07/09/99	ND<5	ND<5	ND<5	ND<5
MW-3D	5 to 7	04/02/02	3J	ND<5	ND<5	ND<5
MW-3D (duplicate)	5 to 7	04/02/02	2J	ND<5	ND<5	ND<5
MW-4	1 to 3	07/09/99	ND<5	ND<5	ND<5	ND<5
MW-4D	5 to 7	03/26/02	ND<5	ND<5	ND<5	ND<4
MW-4D	10 to 12	03/26/02	ND<5	ND<5	ND<5	ND<4
MW-7D	10 to 12	04/02/02	36	ND<5	10	ND<5
MW-8D	0 to 2	04/04/02	ND<5	ND<5	ND<5	ND<5
MW-8D (duplicate)	0 to 2	04/04/02	ND<5	ND<5	ND<5	ND<5
MW-8D (triplicate)	0 to 2	04/04/02	ND<5	ND<5	ND<5	ND<5
MW-11D	10 to 12	3/27/02	ND<5	ND<5	ND<5	ND<5
MW-12D	10 to 12	03/26/02	ND<5	ND<5	ND<5	ND<5
MW-13D	15 to 17	3/27/02	ND<5	ND<5	ND<5	ND<5
S-1	0 to 0.25	4/02/02	ND<5	ND<5	ND<5	ND<5
S-2	0 to 0.25	4/02/02	ND<5	ND<5	ND<5	ND<5
S-3	0 to 0.25	4/02/02	ND<5	ND<5	ND<5	ND<5
S-4	0 to 0.25	4/02/02	ND<5	ND<5	ND<5	ND<5
S-5	0 to 0.25	4/02/02	ND<5	ND<5	ND<5	ND<5
S-6	0 to 0.25	4/02/02	ND<5	ND<5	ND<5	ND<5
S-7	0 to 0.25	4/02/02	ND<5	ND<5	ND<5	ND<5
NYSDEC TAGM Recommended Soil Clean-up Objectives			700	1,400	300 1/	100

NYSDEC TAGM — New York State Department of Conservation Technical and Administrative Guidance Memorandum
ft bg — Feet below grade
ug/kg — Micrograms per kilogram (parts per billion)
1/ — Criterion for 1,2-dichloroethene (trans)
H:\SONY\2002\542 Route 202\All Sony Tables.doc

TABLE 2

542 ROUTE 303
ORANGEBURG, NEW YORK

Summary of Inorganic Detections in Soil Samples Collected on July 9, 1999

Sample Location	Sample Depth (ft bg)	Lead (mg/kg)	Total Chromium (mg/kg)	Barium (mg/kg)
MW-1	10 to 11	2.4	5.3	29
MW-3	3 to 5	3.0	4.0	37
MW-4	1 to 3	6.4	5.5	42
H-1	4 to 4.5	3.9	3.8	34
H-2	4 to 4.5	ND<2	2.6	26
NYSDEC TAGM Recommended Soil Clean-up Objectives		30	10	300

NYSDEC New York State Department of Environmental Conservation.
TAGM Technical and Administrative Guidance Memorandum.
ND<2 not detected above noted concentration.
ft bg feet below grade.
mg/kg milligrams per kilogram (parts per million).

H:\SONY\2002\542 Route 202\All Sony Tables.doc

TABLE 3

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

Monitoring Well Completion/Soil Boring Summary Table

Monitor Well	Date Installed	Relative Elevation of Top of Casing	Depth of Boring (ft bg)	Monitor Well Depth (ft bg)	Diameter of Borehole (inches)	Well Screen Diameter and Material	Screen Length (feet)	Screen Setting (ft bg)	Well Screen Slot Size (inches)	Gravel Pack size and type	Gravel Pack Setting (ft bg)	Bentonite Setting (ft bg)	Depth to Bedrock (ft bg)
MW-1	July 9, 1999	105.64	17	17	6.75	2-inch PVC	5	12 to 17	0.010	1	10 to 17	8 to 10	17 1/
MW-2	July 9, 1999	110.17	20	20	6.75	2-inch PVC	10	10 to 20	0.010	1	8 to 20	6 to 8	--
MW-3	July 9, 1999	104.70	20	20	6.75	2-inch PVC	10	10 to 20	0.010	1	8 to 20	6 to 8	--
MW-3D	April 4, 2002	104.75	52	45	6.75	2-inch PVC	15	30 to 45	0.010	00	28 to 45.5	28 to 26 45 to 52	50
MW-4	July 9, 1999	100.60	15	15	6.75	2-inch PVC	10	5 to 15	0.010	1	3 to 15	1 to 3	--
MW-4D	March 26, 2002	100.57	42	38	6.75	2-inch PVC	15	23 to 38	0.010	00	21 to 39	21 to 19 38 to 43	42
MW-5S	September 8, 1999	105.85	20	20	6.75	2-inch PVC	10	10 to 20	0.010	1	8 to 20	6 to 8	--
MW-5D	September 8, 1999	105.82	48.25	45	6.75	2-inch PVC	20	25 to 45	0.010	1	23 to 45.5	21 to 23 45.5 to 48.25	48
MW-6S	September 8, 1999	102.82	20	20	6.75	2-inch PVC	10	10 to 20	0.010	1	8 to 20	6 to 8	--
MW-6D	September 9, 1999	102.75	44.25	41.5	6.75	2-inch PVC	15	26.5 to 41.5	0.010	1	25 to 42	23 to 25 42 to 44.25	44
MW-7S	April 2, 2002	103.91	20	20	6.75	2-inch PVC	15	5 to 20	0.010	00	4 to 20	2 to 4	--
MW-7D	April 2, 2002	103.80	44.5	40	6.75	2-inch PVC	15	25 to 40	0.010	00	23 to 40	21 to 23 40 to 42.5	44
MW-8S	April 3, 2002	105.00	20	20	6.75	2-inch PVC	15	5 to 20	0.010	00	4 to 20	2 to 4	--
MW-8D	April 4, 2002	105.57	52	46.5	6.75	2-inch PVC	15	30.5 to 46.5	0.010	00	27.5 to 47	24.5 to 27.5 46.5 to 50.5	50
MW-9S	April 4, 2002	103.99	20	20	6.75	2-inch PVC	15	5 to 20	0.010	00	3 to 20	1 to 3	--
MW-9D	April 1, 2002	103.30	47	44	6.75	2-inch PVC	15	29 to 44	0.010	00	27 to 44	24.5 to 27 44 to 47	47
MW-10S	March 28, 2002	100.29	20	20.5	6.75	2-inch PVC	15	4.5 to 20	0.010	00	4 to 20.5	2.5 to 4	--
MW-10D	March 28, 2002	100.60	47	38	6.75	2-inch PVC	15	23 to 38	0.010	00	20 to 38	18 to 20 38 to 45	42
MW-11S	March 28, 2002	98.75	20	20	6.75	2-inch PVC	15	5 to 20	0.010	00	3.5 to 20	2 to 3.5	--
MW-11D	March 27, 2002	98.63	42	34.5	6.75	2-inch PVC	10	25 to 35	0.010	00	22 to 35	20 to 22 35 to 40	38
MW-12	March 26, 2002	97.00	34	30.5	6.75	2-inch PVC	15	15.5 to 30.5	0.010	00	13 to 31	11 to 13 30 to 34	34
MW-13	March 27, 2002	100.00	37	30	6.75	2-inch PVC	15	15 to 30	0.010	00	13 to 30	11 to 13 30 to 34	35
MW-14S	March 29, 2002	99.73	20	19	6.75	2-inch PVC	15	4 to 19	0.010	00	2 to 19	1 to 2 19 to 20	--
MW-14D	March 29, 2002	99.88	40.5	37.5	6.75	2-inch PVC	15	22 to 37	0.010	00	20 to 37.5	18 to 20 37 to 40.5	40

1/ Auger refusal presumed to be bedrock.
ft bg Feet below grade.
H:\SONY\2002\542 Route 202\All Sony Tables.doc

TABLE 4

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

Relative Water Elevation Summary Table

Well ID	07/13/99	10/10/99	11/19/01	04/10/02	04/19/02	05/14/02	07/25/02	08/30/02
MW-1	89.70	89.15						
MW-2	99.38	98.22	91.47		91.12	91.17	92.35	93.22
MW-3S	99.76	99.00			Dry	88.88	89.45	
MW-3D				85.69	85.43	87.43	89.95	
MW-4S	96.05	95.00			Dry	Dry	88.8	88.62
MW-4D				82.69	82.88	84.62	87.42	88.28
MW-5S		101.38			96.77	98.89	99.1	99.04
MW-5D		100.88	85.97		81.15	85.57	87.67	94.66
MW-6S		100.01	96.10		96.27	96.92	97.17	98.1
MW-6D		101.00	85.07		83.86	87.71	88.5	97.49
MW-7S				95.19	95.32	96.08	96.56	97.39
MW-7D				90.09	90.36	91.57	93.4	94.81
MW-8S					Dry	86.92	89.6	91.93
MW-8D				85.55	85.81	87.88	89.97	92.97
MW-9S				93.65	93.77	94.58	95.19	96.23
MW-9D				91.54	91.69	93.14	93.8	95.73
MW-10S					83.3	85.39	87.79	87.46
MW-10D				82.79	82.67	84.65	86.5	87.69
MW-11S					80.86	82.53	84.66	85.03
MW-11D					79.66	81.46	83.26	84.56
MW-12				76.89	76.93	78.87	79.33	80.91
MW-13				77.88	77.87	80.5	80.6	84.01
MW-14S					Dry	82.69	87.48	87.14
MW-14D				80.87	80.79	81.98	84.98	86.73

Note: All elevations presented in feet.

H:\SONY\2002\542 Route 202\All Sony Tables.doc

TABLE 5

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

Depth to Water Summary Table

Well ID	07/13/99	10/10/99	11/19/01	04/10/02	04/19/02	05/14/02	07/25/02	08/30/02
MW-1	15.94	16.49						
MW-2	10.79	11.95	18.70		19.05	19.00	17.82	16.95
MW-3S	4.94	5.70			Dry	15.82	15.25	
MW-3D				19.06	19.32	17.32	14.80	
MW-4S	4.55	5.60			Dry	Dry	11.80	11.98
MW-4D				17.88	17.69	15.95	13.15	12.29
MW-5S		4.47			9.08	6.96	6.75	6.81
MW-5D		4.94	19.85		24.67	20.25	18.15	11.16
MW-6S		2.81	6.72		6.55	5.90	5.65	4.72
MW-6D		1.75	17.68		18.89	15.04	14.25	5.26
MW-7S				8.72	8.59	7.83	7.35	6.52
MW-7D				13.71	13.44	12.23	10.40	8.99
MW-8S					Dry	18.08	15.40	13.07
MW-8D				20.02	19.76	17.69	15.60	12.60
MW-9S				10.34	10.22	9.41	8.80	7.76
MW-9D				11.76	11.61	10.16	9.50	7.57
MW-10S					16.99	14.90	12.50	12.83
MW-10D				17.81	17.93	15.95	14.10	12.91
MW-11S					17.89	16.22	14.09	13.72
MW-11D					18.97	17.17	15.37	14.07
MW-12				20.11	20.07	18.13	17.67	16.09
MW-13				22.12	22.13	19.50	19.40	15.99
MW-14S					Dry	17.04	12.25	12.59
MW-14D				19.01	19.09	17.90	14.90	13.15

Note: All depth to water data presented in feet below top of PVC casing.

H:\SONY\2002\542 Route 202\All Sony Tables.doc

Sample Location	Depth of Sample (ft bg)	Date Sampled	Trichl	ns-1,2-roethylene ug/l)	Chloroform (ug/l)	Vinyl Chloride (ug/l)	Total VOC (ug/l)
B-1	20	10/29/01	N	ID<1	ND<1	ND<10	ND
B-1	30	10/30/01	N	ID<1	ND<1	ND<10	ND
B-2	20	10/30/01	N	ID<1	ND<1	ND<10	ND
B-3	20	10/30/01	N	ID<1	ND<1	ND<10	ND
B-3	30	10/31/01	N	ID<1	ND<1	ND<20	ND
B-3	40	10/31/01		ID<2	ND<1	ND<20	2
B-7	20	11/02/01		ID<1	ND<1	ND<10	92
B-8	20	11/01/01		1	ND<1	**12**	385
B-13	20	11/09/01		ID<1	ND<1	ND<10	14
B-15	28	11/05/01		ID<1	ND<1	ND<10	20
MW-1	--	7/13/99	N	ID<1	ND<1	ND<1	ND
MW-2	--	7/13/99	N	ID<1	ND<1	ND<1	ND
	--	9/10/99	N	ID<1	ND<1	ND<2	ND
		4/19/02	N	ID<1	ND<1	ND<1	ND
MW-3S	--	7/13/99		ID<1	ND<1	ND<1	91
	--	9/10/99		ID<1	ND<1	ND<2	47.1
MW-3D	37.5	4/19/02		ID<1	2	ND<10	177
MW-4S	--	7/13/99		ID<1	ND<1	**130**	855
		9/10/99		ID<1	ND<1	**89**	707.7
MW-4D	30.5	4/19/02		**5**	3J	**55**	671
MW-5S	--	9/10/99	N	ID<1	ND<1	ND<2	8.3
	--	11/19/01	N	ID<1	ND<1	ND<10	ND
	15	4/19/02	N	ID<1	ND<1	ND<10	ND
MW-5D	--	9/10/99	N	3.6	ND<1	ND<2	9.8
	--	11/19/01	N	ID<1	ND<1	ND<10	2
	35	4/19/02	N	ID<1	ND<1	ND<10	ND
MW-6S	--	9/10/99		3.9	ND<1	ND<2	14.3
	--	11/19/01	N	ID<1	ND<1	ND<10	ND
	15	4/19/02	N	ID<1	ND<1	ND<10	ND
MW-6D	35	9/10/99		ID<1	ND<1	ND<2	20.9
		11/19/01		ID<1	ND<1	ND<10	147
		4/19/02		ID<1	ND<1	ND<10	280
NYSDEC TOGS Guidance Values				5		2	NA
MW-7S	12.5	4/19/02		ID<1	ND<1	**44**	259
MW-7D	33	4/19/02		**36**	ND<5	**730**	3,952
MW-8D	38	4/19/02	N	ID<1	ND<1	ND<10	3
MW-9S	12.5	4/19/02		ID<1	ND<1	1J	43

Sample Location	Depth of Sample (ft bg)	Date Sampled	Trichl	ns-1,2- roethylene (ug/l)	Chloroform (ug/l)	Vinyl Chloride (ug/l)	Total VOC (ug/l)
MW-9D	30	4/19/02		ND<1	ND<1	**29**	1,460
MW-10S	19	4/19/02		ND<1	ND<1	**58**	180
MW-10D	30	4/19/02		ND<1	ND<1	**84**	406
MW-11S	19	4/19/02		ND<1	ND<1	ND<10	112
MW-11D	29	4/19/02		ND<1	ND<1	3J	188
MW-12	23	4/19/02		D<500	ND<500	ND<5000	24,700
MW-13	25	4/19/02		ND<1	ND<1	ND<10	ND
MW-13 Duplicate	25	4/19/02		ND<1	ND<1	ND<10	1
MW-13 Triplicate	25	4/19/02		ND<1	ND<1	ND<10	1
MW-14D	30	4/19/02		ND<2	ND<2	ND<20	446
NYSDEC TOGS Guidance Values				5		2	NA

Note:	Monitor wells MW-1, MW-2 and M
NYSDEC TOGS	New York State Department of Cor
ND<1	Not detected above noted concentra
ft bg	Feet below grade
ug/l	Micrograms per liter (parts per billi

TABLE 7

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

Summary of Magnitude of Vertical Flow Gradient

Date	Location and Ground-Water Elevation		Magnitude of Vertical Flow
	MW-3S	MW-3D	
05/14/2002	88.88	87.43	1.45
07/25/2002	89.45	89.95	-0.50
	MW-4S	MW-4D	
07/25/2002	88.8	87.42	1.38
08/30/2002	88.62	88.28	0.34
	MW-5S	MW-5D	
09/10/1999	101.38	100.88	0.50
04/19/2002	96.77	81.15	15.62
05/14/2002	98.89	85.57	13.32
07/25/2002	99.1	87.67	11.43
08/30/2002	99.04	94.66	4.38
	MW-6S	MW-6D	
09/10/1999	100.01	101	-0.99
11/19/2001	96.1	85.07	11.03
04/19/2002	96.27	83.86	12.41
05/14/2002	96.92	87.63	9.29
07/25/2002	97.17	88.5	8.67
08/30/2002	98.1	97.49	0.61
	MW-7S	MW-7D	
04/10/2002	95.19	90.09	5.10
04/19/2002	95.32	90.36	4.96
05/14/2002	96.08	91.57	4.51
07/25/2002	95.56	93.4	2.16
08/30/2002	97.39	94.81	2.58
	MW-8S	MW-8D	
05/14/2002	86.92	87.88	-0.96
07/25/2002	89.6	89.97	-0.37
08/30/2002	91.93	92.97	-1.04
	MW-9S	MW-9D	
04/10/2002	93.65	91.54	2.11
04/19/2002	93.77	91.69	2.08
05/14/2002	94.58	93.14	1.44
07/25/2002	95.19	93.8	1.39
08/30/2002	96.23	95.73	0.50
	MW-10S	MW-10D	
04/19/2002	83.3	82.67	0.63
05/14/2002	85.39	84.65	0.74
07/25/2002	87.79	86.5	1.29
08/30/2002	87.46	87.61	-0.15
	MW-11S	MW-11D	
04/19/2002	80.86	79.66	1.20
05/14/2002	82.53	81.46	1.07
07/25/2002	84.66	83.26	1.40
08/30/2002	85.03	84.56	0.47
	MW-14S	MW-14D	
05/14/2002	82.69	81.98	0.71
07/25/2002	87.48	84.98	2.50
08/30/2002	87.14	86.73	0.41

Note: Positive denotes downward vertical flow direction.

H:\SONY\2002\542 Route 202\All Sony Tables.doc

TABLE 8

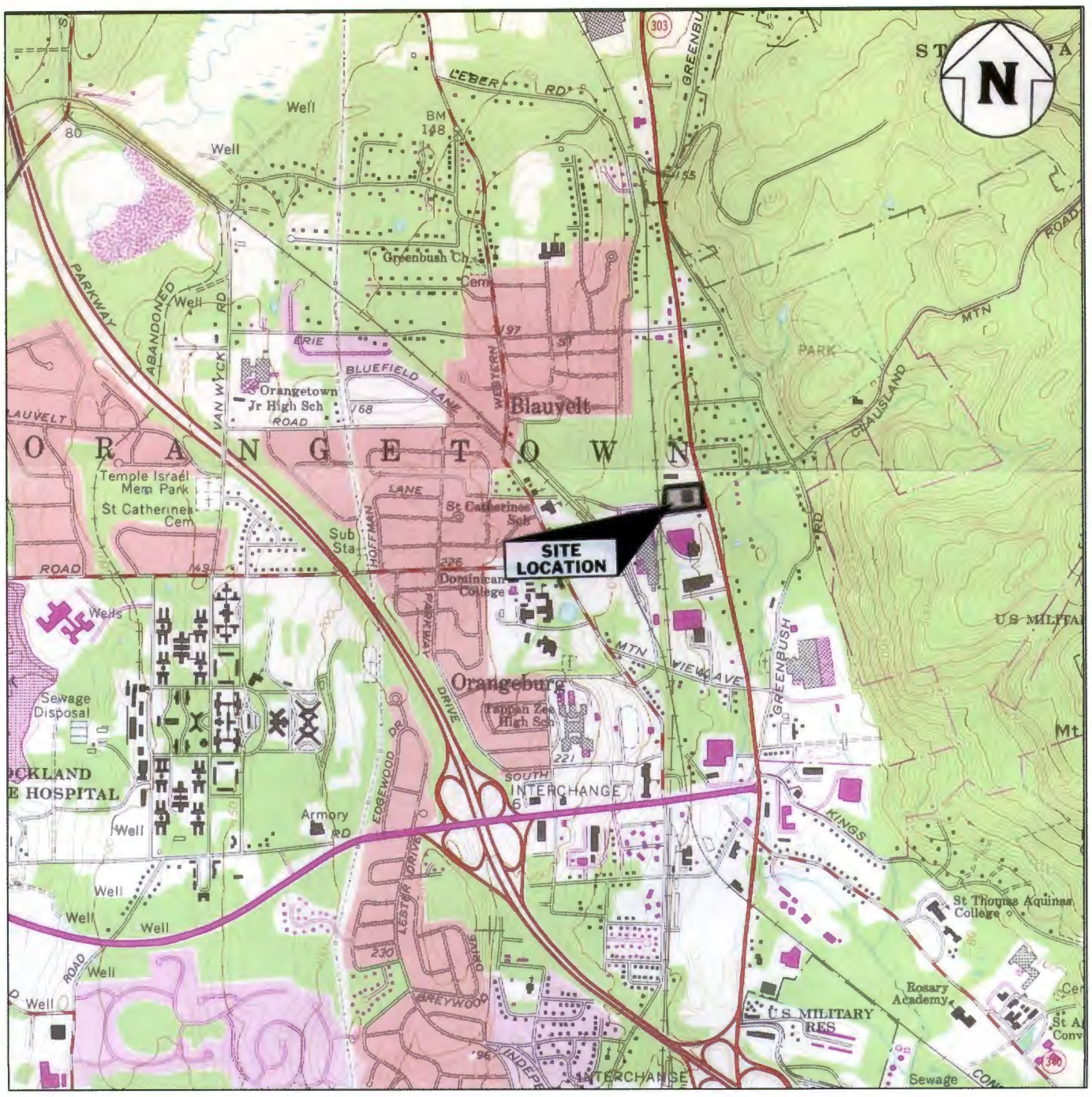
MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

Slug Test Results

Well ID	Date	Average Hydraulic Conductivity (feet/day)	Percent Recovery
MW-5D	August 14, 2002	0.067	75
MW-8S	September 4, 2002	1.376	74
MW-8D	August 30, 2002	0.971	100
	September 4, 2002	1.366	100
MW-9D	August 15, 2002	0.225	89
MW-11	September 4, 2002	3.223	100
MW-12	August 15, 2002	0.060	70
MW-13	August 30, 2002	0.079	88

H:\SONY\2002\542 Route 202\All Sony Tables.doc

FIGURES



SOURCE: USGS TOPOGRAPHIC QUADRANGLE NYACK, NEW YORK (PHOTOREVISED 1979).

QUADRANGLE LOCATION

0 2000

SCALE IN FEET

MATERIALS RESEARCH CORPORATION
ADVANCED MATERIALS DIVISION
542 ROUTE 303
ORANGETOWN, NEW YORK

SITE LOCATION MAP

DATE	REVISED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

DRAWN:	MRV	CHECKED:	SS	DATE:	9/3/99	FIGURE:	1

O:\DWG\SONY\ORANGE\1999\FIG1.DWG, Layout2, 11/07/02 02:43:19 PM, HP Business Inkjet 2200_2250.pc3

N

LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1961
- CONSTRUCTED - 1969
- CONSTRUCTED - 1980

MW-1 MONITOR WELL LOC

TB-1 7 1999 HOLLOW STE (DEPTH OF REFUSA

H-1 1999 HAND AUGER LOCATION

P-1 1999 SURFICIAL SC LOCATION AND LOC PROPOSED HAND A

B-14 22 S,W SOIL BORING LOCA ED (DEPTH OF REFUSA (S.W) S = SOIL SAM W = GROUND-

9 SOIL BORING LOCA (DEPTH OF REFUSA

NOTE: ALL DEPTHS IN FEET.

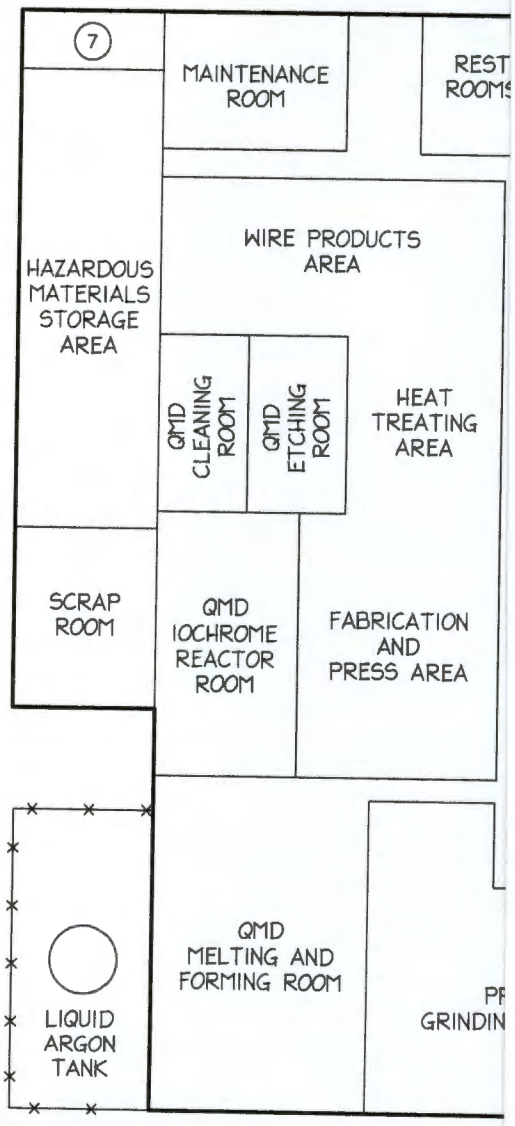
542 ROUTE 303 ORANGETOWN, NEW YORK

SITE MAP

PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	MM	DATE:	10/3/02	FIGURE:	2

O:\DWG\SONY\ORANGE\2002\Phase 3\Fig2.dwg, Layout1, 11/11/02 03:08:55 PM, HP DeskJet 1220



LEGEND

1. ENGINEERING LAB
2. WATER TREATMENT ROOM
3. QMD ETCHING ROOM
4. FINAL INSPECTION
5. UNFINISHED PRODUCT STOCK ROOM
6. FINISHED PRODUCT STOCK ROOM
7. COMPRESSOR ROOM

PMD PRECIOUS METALS DIVISION

PPD POWDER PRODUCTS DIVISION

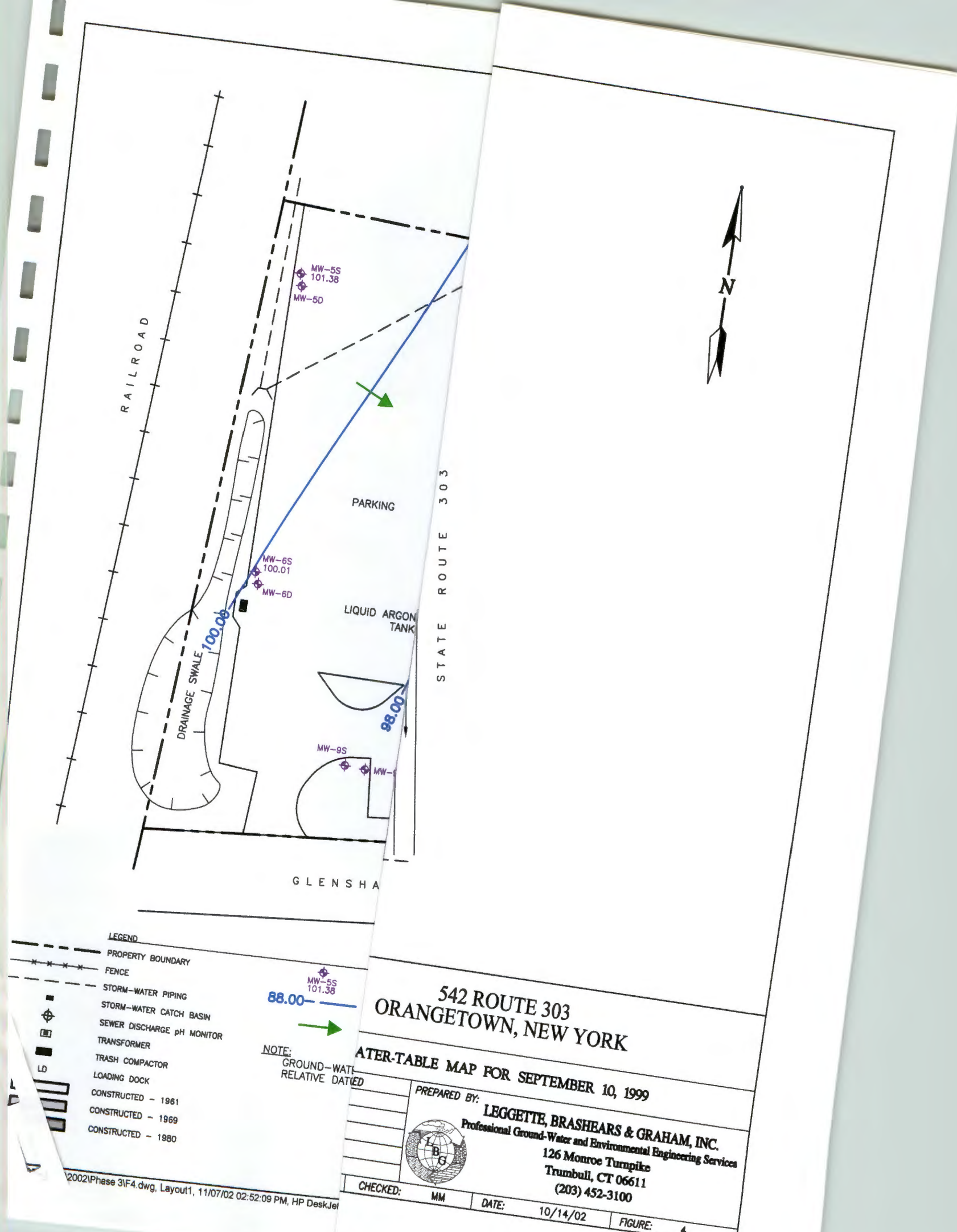
QMD QUALITY METALS DIVISION

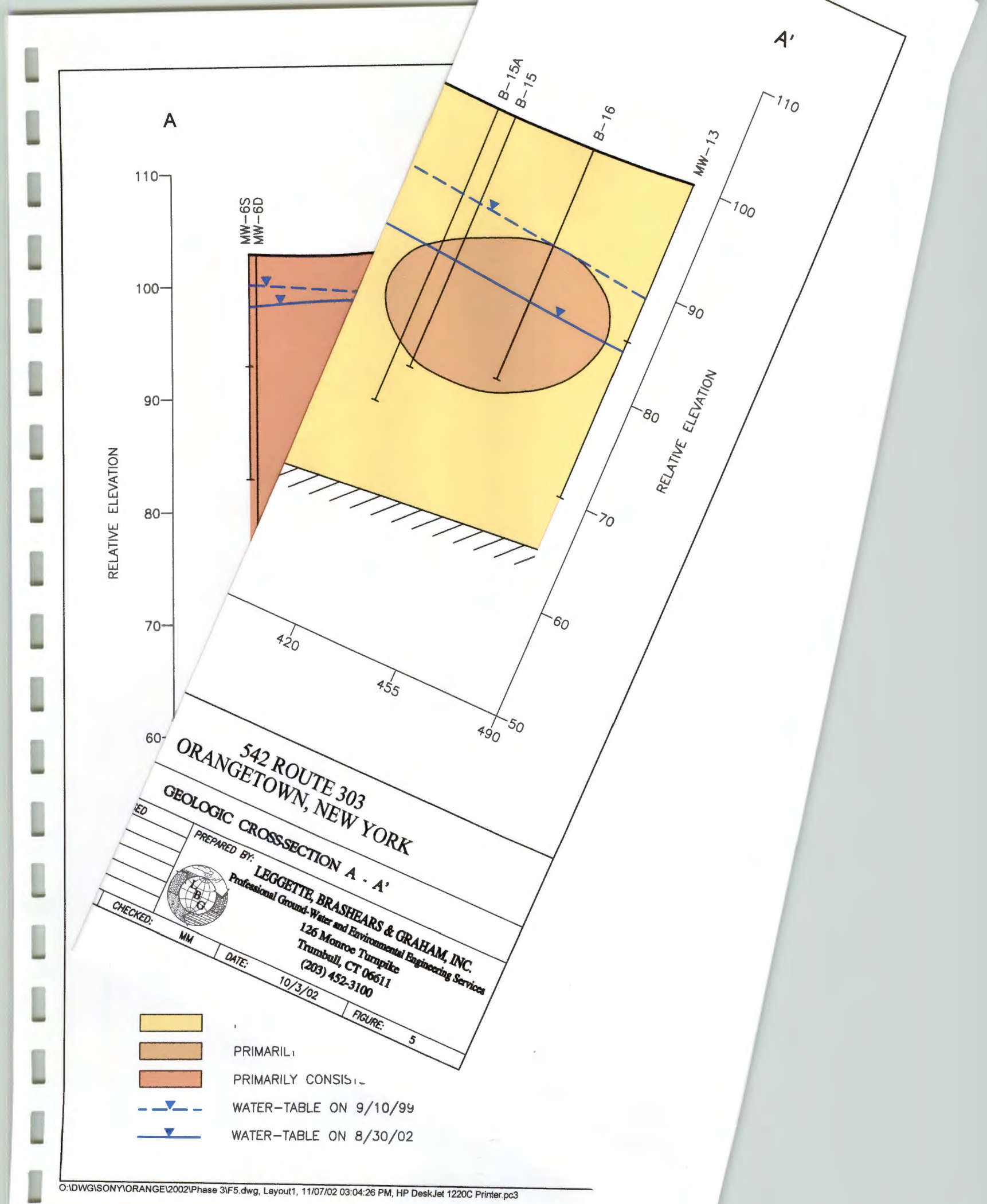
542 ROUTE 303
ORANGETOWN, NEW YORK

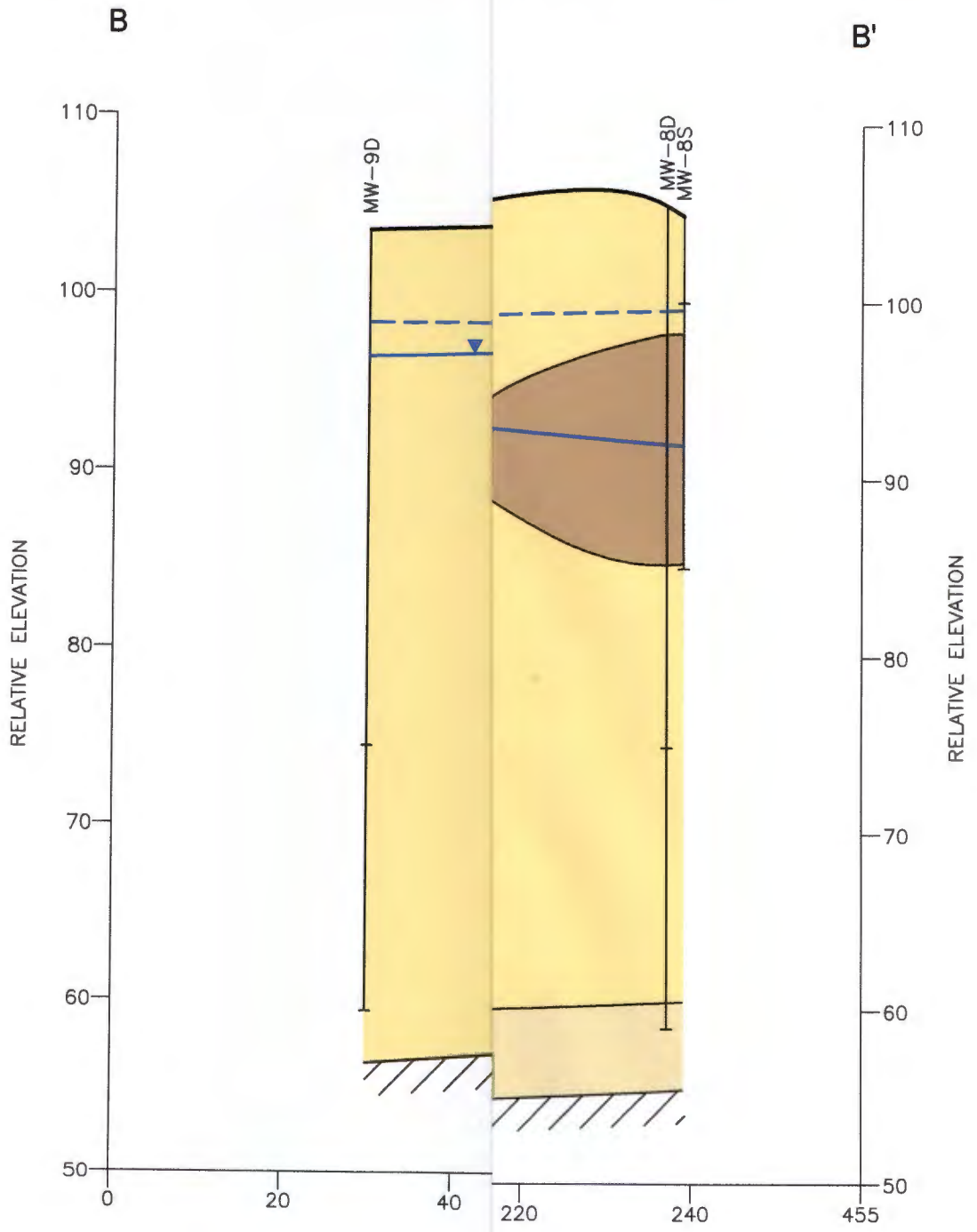
FACILITY MAP

ED	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 126 Monroe Turnpike Trumbull CT 06611 (203) 452-3100		
	CHECKED: SS	DATE: 9/8/97	FIGURE: 3

O:\DWG\SONY\ORANGE\FIG3.dwg, Layout1, 11/07/02 02:50:58 PM, HP DeskJet 1220C Printer.pc3


RAILROAD
MW-5S
101.38
MW-5D
PARKING
STATE ROUTE 303
MW-6S
100.01
MW-6D
LIQUID ARGON
TANK
100.00
DRAINAGE SWALE
98.00
MW-9S
GLENSHA
LEGEND
PROPERTY BOUNDARY
FENCE
STORM-WATER PIPING
STORM-WATER CATCH BASIN
SEWER DISCHARGE pH MONITOR
TRANSFORMER
TRASH COMPACTOR
LD
LOADING DOCK
CONSTRUCTED - 1961
CONSTRUCTED - 1969
CONSTRUCTED - 1980
MW-5S
101.38
88.00
NOTE:
GROUND-WATE
RELATIVE DATED
N
542 ROUTE 303
ORANGETOWN, NEW YORK
ATER-TABLE MAP FOR SEPTEMBER 10, 1999
PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100
CHECKED: MM
DATE: 10/14/02
FIGURE: 4
2002\Phase 3\F4.dwg, Layout1, 11/07/02 02:52:09 PM, HP DeskJet


A
A'
110
100
90
80
70
60
RELATIVE ELEVATION
MW-6S
MW-6D
B-15A
B-15
B-16
MW-13
420
455
490
50
60
70
80
90
100
110
542 ROUTE 303
ORANGETOWN, NEW YORK
GEOLOGIC CROSSSECTION A - A'
PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100
CHECKED: MM
DATE: 10/3/02
FIGURE: 5
PRIMARILY
PRIMARILY CONSIS
WATER-TABLE ON 9/10/99
WATER-TABLE ON 8/30/02
O:\DWG\SONY\ORANGE\2002\Phase 3\F5.dwg, Layout1, 11/07/02 03:04:26 PM, HP DeskJet 1220C Printer.pc3



LEGEND

- PRIMARILY CONSISTS OF FINE SAND,
- PRIMARILY CONSISTS OF SILT, SOME
- PRIMARILY CONSISTS OF FINE SAND
- WATER-TABLE ON 9/10/99
- WATER-TABLE ON 8/30/02

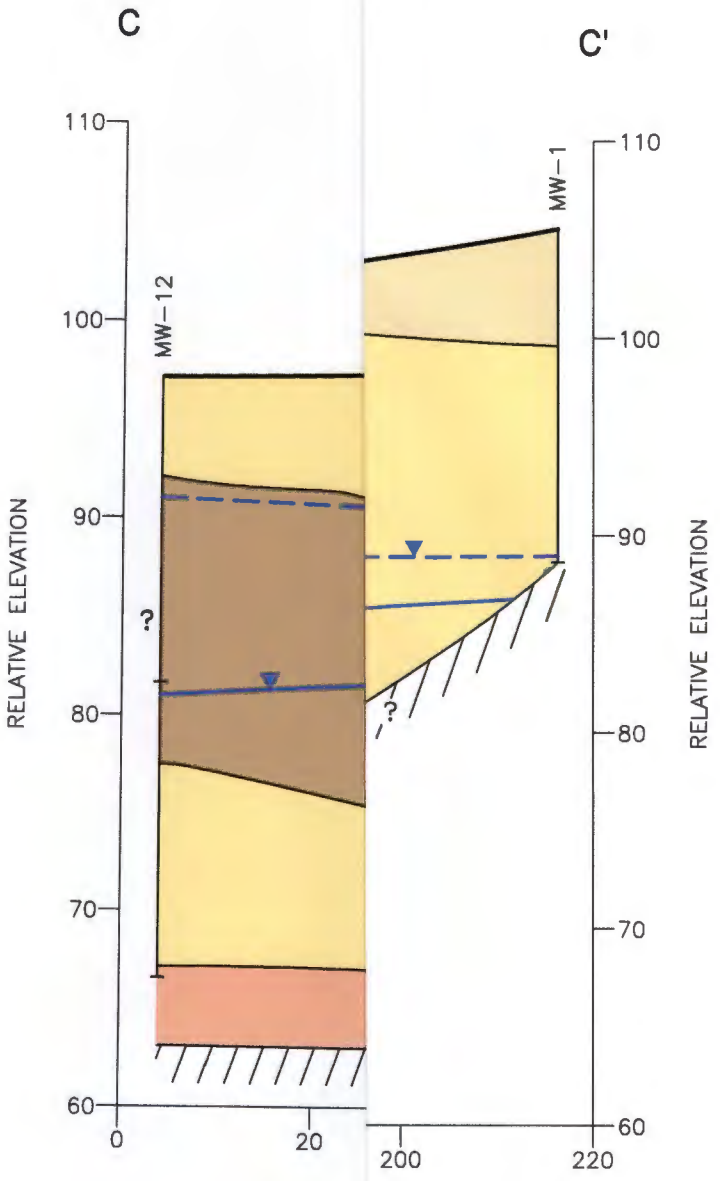
542 ROUTE 303
ORANGETOWN, NEW YORK

GEOLOGIC CROSS-SECTION B - B'

PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	MM	DATE:	10/3/02	FIGURE:	6

O:\DWG\SONY\ORANGE\2002\Phase 3\F6.dwg, Layout1, 11/07/02 03:05:20 PM, HP DeskJet 1220C



LEGEND

- PRIMARILY CONSISTS OF FINE SAND,
- PRIMARILY CONSISTS OF SILT, SOME
- PRIMARILY CONSISTS OF CLAY, LITTLE
- PRIMARILY CONSISTS OF FINE SAND A
- WATER-TABLE ON 9/10/99
- WATER-TABLE ON 8/30/02

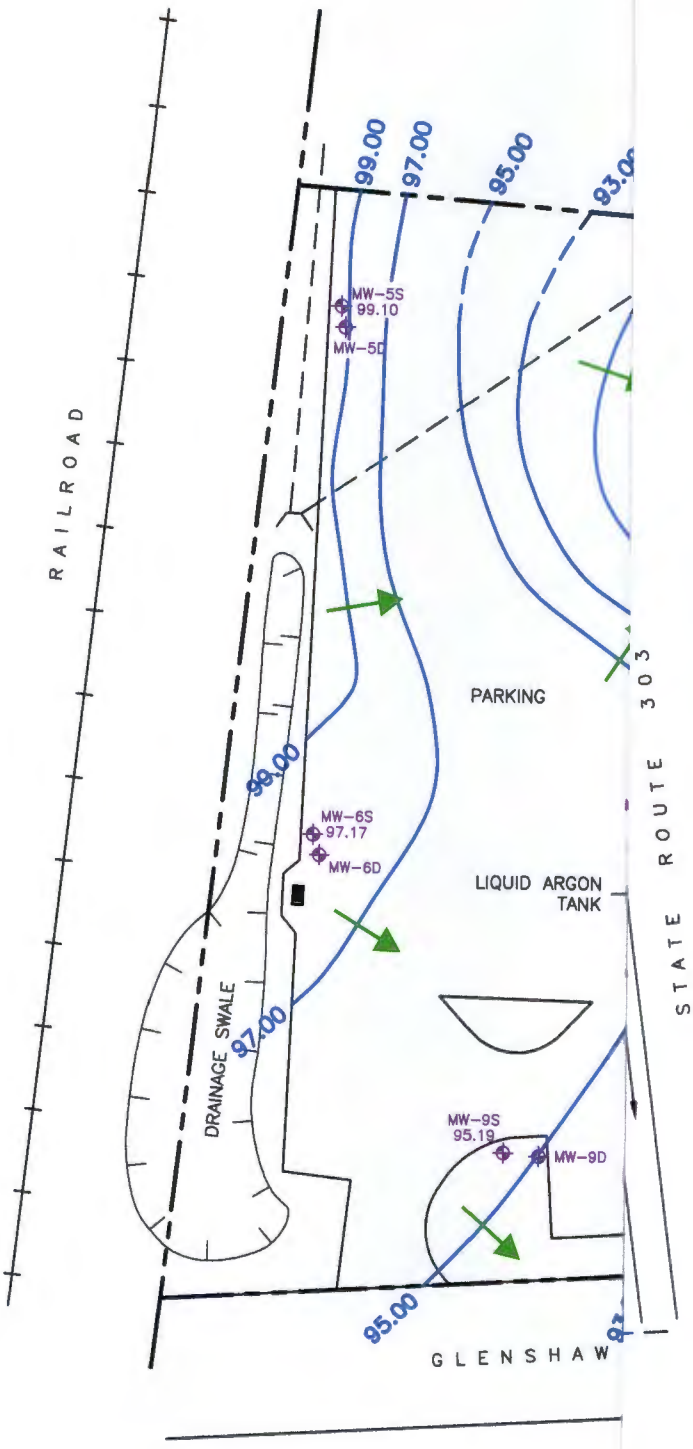
542 ROUTE 303
ORANGETOWN, NEW YORK

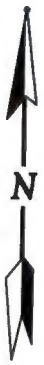
GEOLOGIC CROSS-SECTION C - C'

PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	MM	DATE:	10/3/02	FIGURE:	7

O:\DWG\SONY\ORANGE\2002\Phase 3\F7.dwg, Layout1, 11/07/02 03:06:21 PM, HP DeskJet 1220C Pl





LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1961
- CONSTRUCTED - 1969
- CONSTRUCTED - 1980

MW-2 92.35 MONITO RELATI

97.00 GROUN (DASHI

DIRECT

NOTE:
GROUND-WATER EL
RELATIVE DATUM.

542 ROUTE 303
ORANGETOWN, NEW YORK

TER-TABLE CONTOUR MAP ON JULY 25, 2002

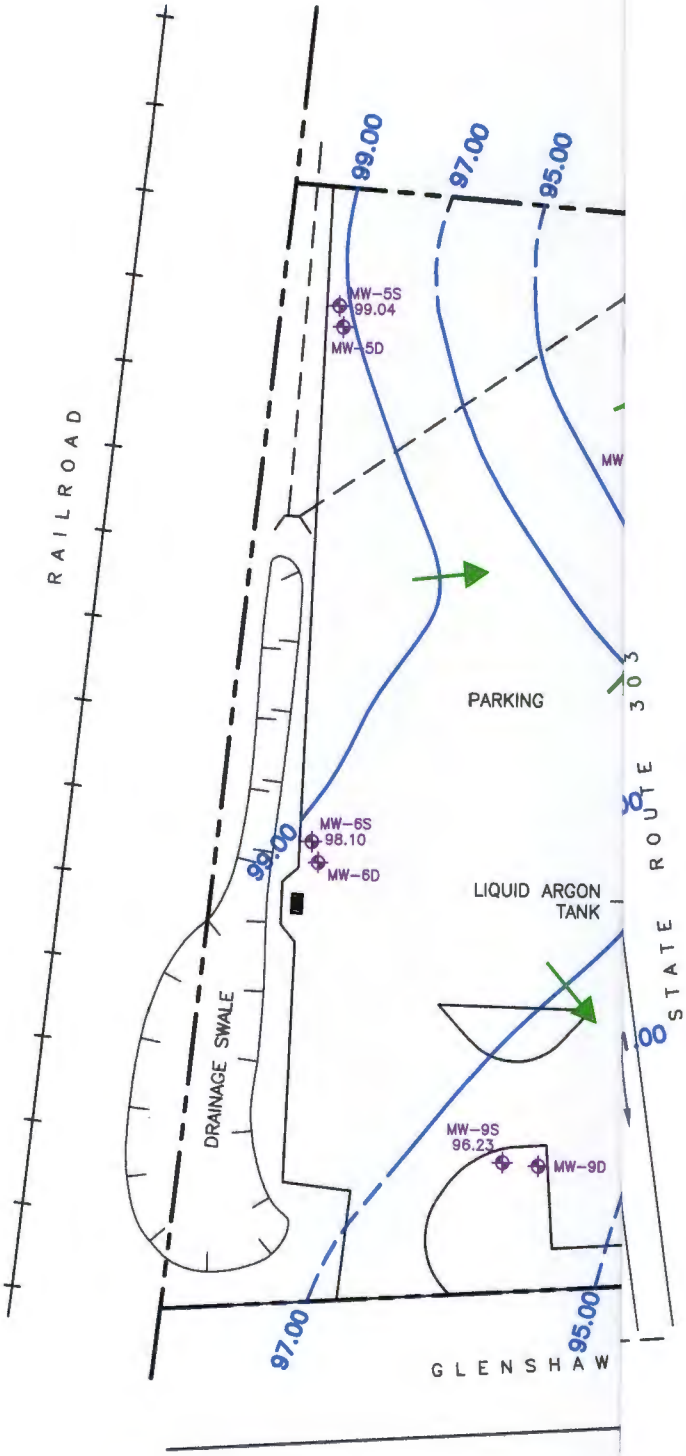
ED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	DD	DATE:	9/12/02	FIGURE:	8

O:\DWG\SONY\ORANGE\2002\F8.dwg, Layout1, 11/07/02 03:19:04 PM, HP DeskJet 1220C Printer.pc



N

LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1981
- CONSTRUCTED - 1969
- CONSTRUCTED - 1980

MW-2 93.22 MONIT RELATI

97.00 GROUN (DASH

DIRECT

NOTE: GROUND-WATER EL RELATIVE DATUM.

542 ROUTE 303 ORANGETOWN, NEW YORK

R-TABLE CONTOUR MAP ON AUGUST 30, 2002

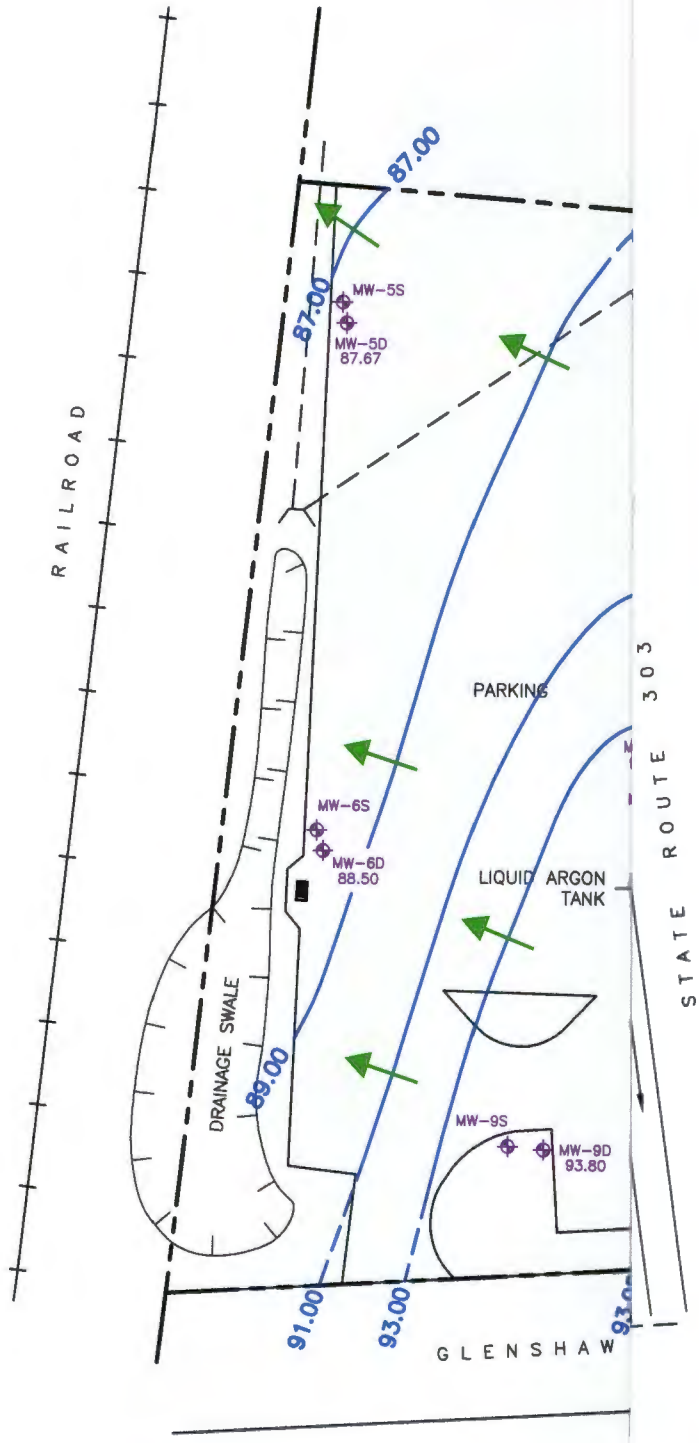
ED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

O:\DWG\SONY\ORANGE\2002\Fig9.dwg, Layout1, 11/07/02 03:20:55 PM, HP Deskjet 1220C Printer

CHECKED: DD DATE: 9/13/02



N

LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1961
- CONSTRUCTED - 1969
- CONSTRUCTED - 1980

MW-12 79.33 MONITO RELATI

87.00 GROUN (DASHE

DIRECT

NOTE: GROUND-WATER EL RELATIVE DATUM.

542 ROUTE 303
ORANGETOWN, NEW YORK

RIC SURFACE FOR DEEP UNCONSOLIDATED MATERIALS
ON JULY 25, 2002

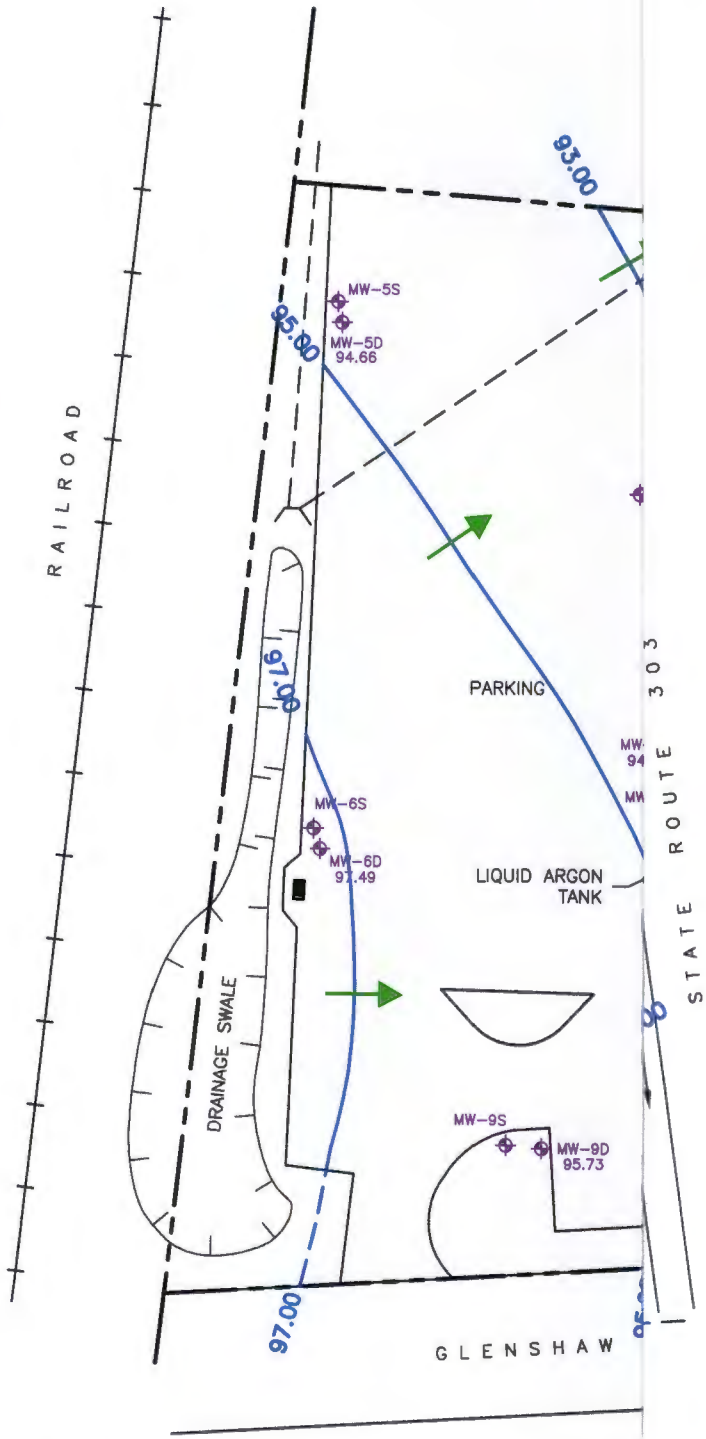
SED

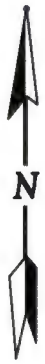
PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	DD	DATE:	9/12/02	FIGURE:	10

O:\DWG\SONY\ORANGE\2002\F10.dwg, Layout1, 11/07/02 03:22:13 PM, HP DeskJet 1220C Printer.p





LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1961
- CONSTRUCTED - 1969
- CONSTRUCTED - 1980
- MW-12 80.91 MONITOR RELATIVE
- 87.00 GROUND- (DASHED
- DIRECTIO

NOTE:
GROUND-WATER ELE
RELATIVE DATUM.

542 ROUTE 303
ORANGETOWN, NEW YORK

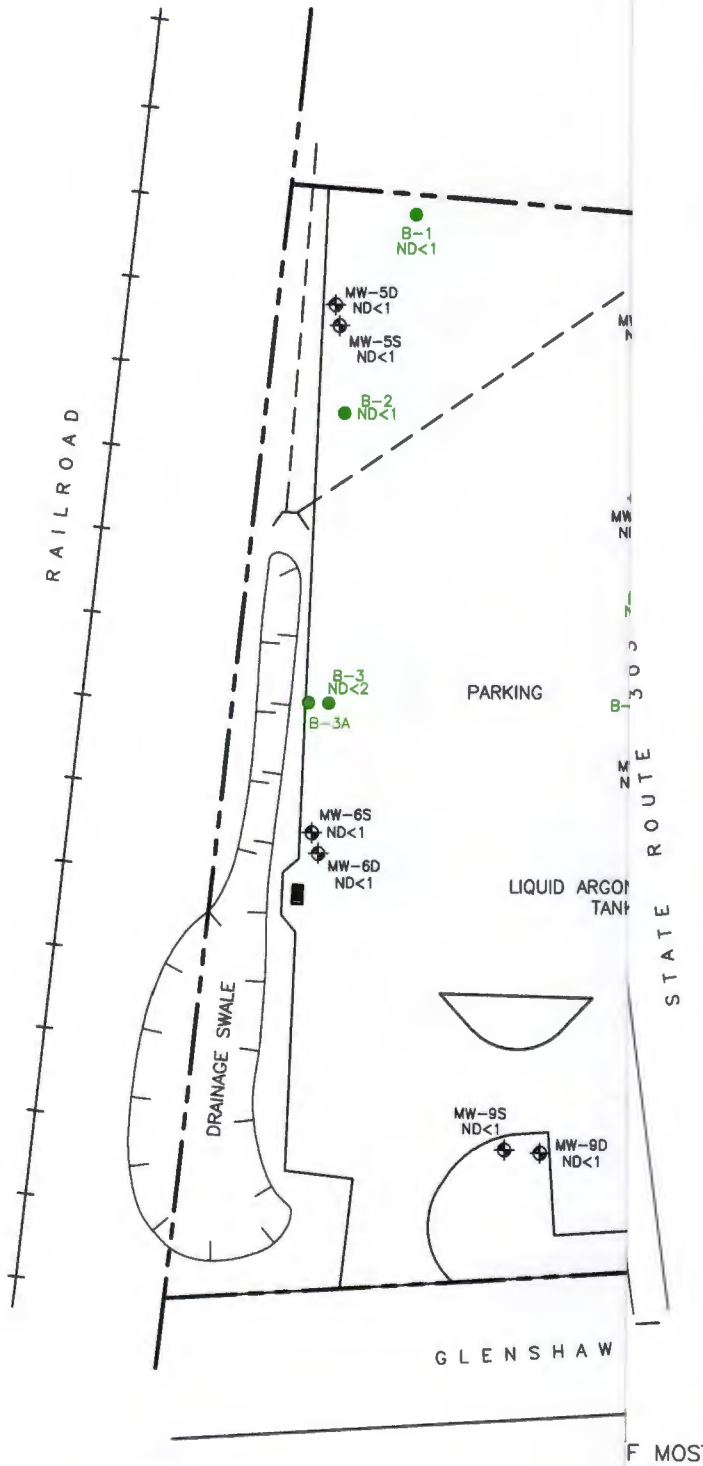
IC SURFACE FOR DEEP UNCONSOLIDATED MATERIALS
ON AUGUST 30, 2002

ED

PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	MM	DATE:	10/14/02	FIGURE:	11

O:\DWG\SONY\ORANGE\2002\F11.dwg, Layout1, 11/07/02 03:29:02 PM, HP DeskJet 1220C Printer.pc3



F MOST RECENT GROUND-WATER QUALITY RESULTS
NEATH WELL OR BORING.

LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1981
- CONSTRUCTED - 1989
- CONSTRUCTED - 1980

MW-12
3,700 MONITOR WELL LO
CONCENTRATION IN
ND NOT DETECTED AB
B-1
ND<1 SOIL BORING LOCA
CONCENTRATION IN

542 ROUTE 303
ORANGETOWN, NEW YORK

UALITY RESULTS FOR TETRACHLORETHYLENE

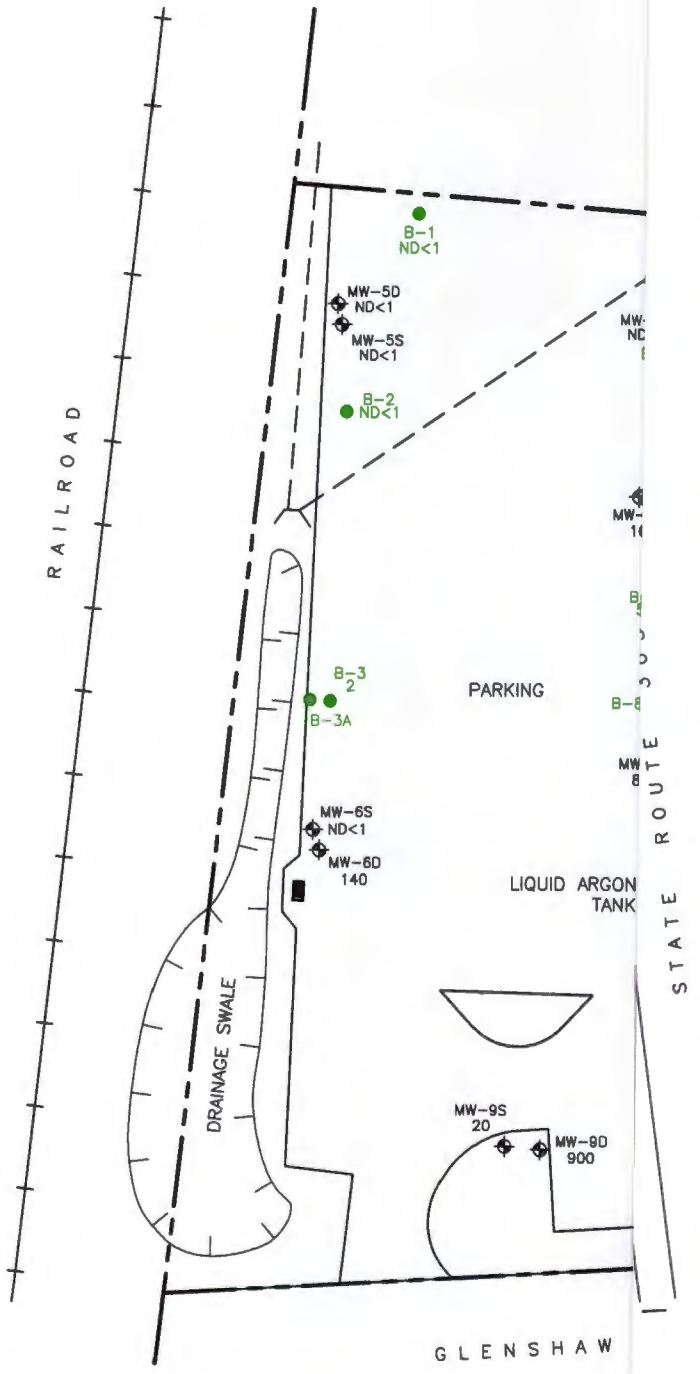
D

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	MM	DATE:	10/14/02	FIGURE:	12

O:\DWG\SONY\ORANGE\2002\Phase 3\F12.dwg, Layout1, 11/07/02 03:41:02 PM, HP DeskJet 1220



N

LEGEND

PROPERTY BOUNDARY	MW-13 / 1 — MONITOR WELL LOC
FENCE	CONCENTRATION IN
STORM-WATER PIPING	ND — NOT DETECTED ABC
STORM-WATER CATCH BASIN	B-1 / ND<1 — SOIL BORING LOCAT
SEWER DISCHARGE pH MONITOR	CONCENTRATION IN
TRANSFORMER	
TRASH COMPACTOR	
LD — LOADING DOCK	
CONSTRUCTED - 1961	
CONSTRUCTED - 1969	
CONSTRUCTED - 1980	

F MOST RECENT GROUND-WATER QUALITY RESULTS
NEATH WELL OR BORING.

542 ROUTE 303
ORANGETOWN, NEW YORK

QUALITY RESULTS FOR TRICHLOROETHYLENE

ED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	MM	DATE:	10/14/02	FIGURE:	13

O:\DWG\SONY\ORANGE\2002\Phase 3\F13.dwg, Layout1, 11/07/02 03:43:00 PM, HP DeskJet 1220C

N

OF MOST RECENT GROUND-WATER QUALITY RESULTS
NEATH WELL OR BORING.

LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1961
- CONSTRUCTED - 1969
- CONSTRUCTED - 1980

MW-6D 7 — MONITOR WELL LOCA
CONCENTRATION IN
ND — NOT DETECTED ABOV
B-1 ND<1 — SOIL BORING LOCATI
CONCENTRATION IN

542 ROUTE 303
ORANGETOWN, NEW YORK

ALITY RESULTS FOR (CIS) 1,2-DICHLOROETHYLENE

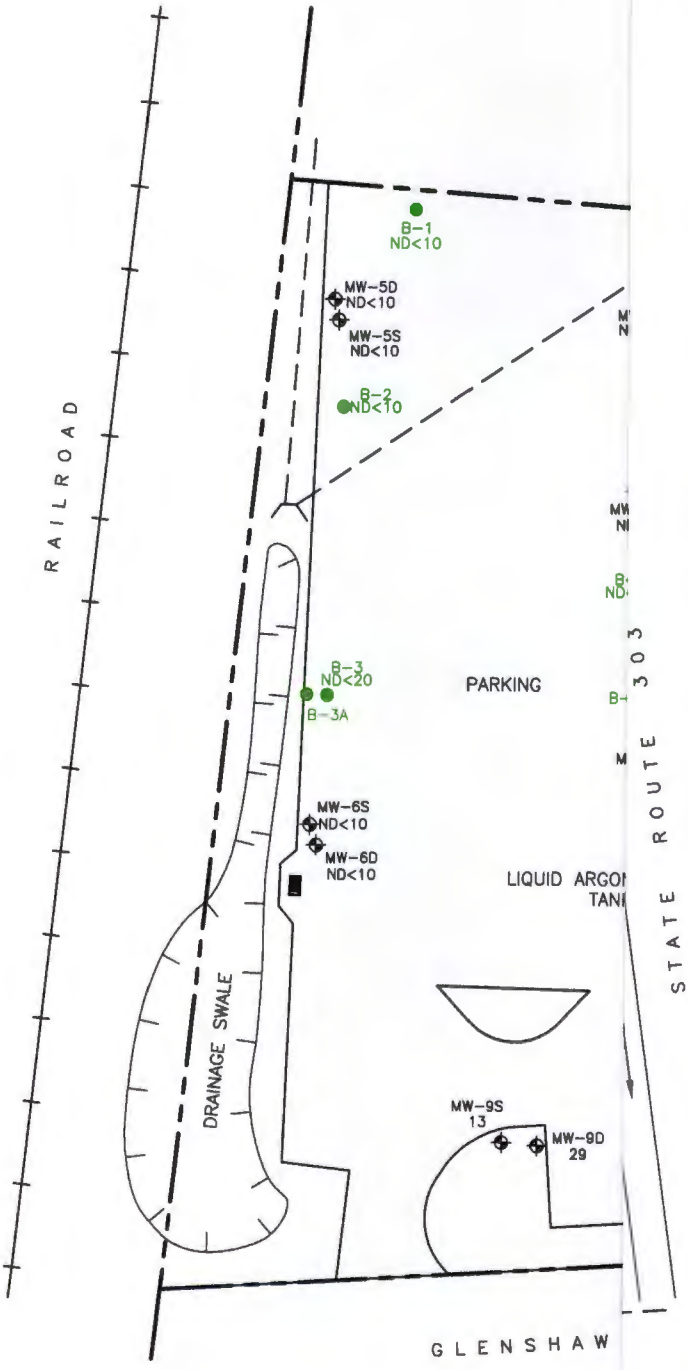
ED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED: MM | DATE: 10/14/02 | FIGURE: 14

O:\DWG\SONY\ORANGE\2002\Phase 3\F14.dwg, Layout1, 11/07/02 03:44:17 PM, HP DeskJet 1220C



N

OF MOST RECENT GROUND-WATER QUALITY RESULTS
ENEATH WELL OR BORING.

LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1961
- CONSTRUCTED - 1969
- CONSTRUCTED - 1980
- MW-6D 7 MONITOR WELL LO
- CONCENTRATION IN
- ND NOT DETECTED AB
- B-1 ND<1 SOIL BORING LOCA
- CONCENTRATION IN

542 ROUTE 303
ORANGETOWN, NEW YORK

ER QUALITY RESULTS FOR VINYL CHLORIDE

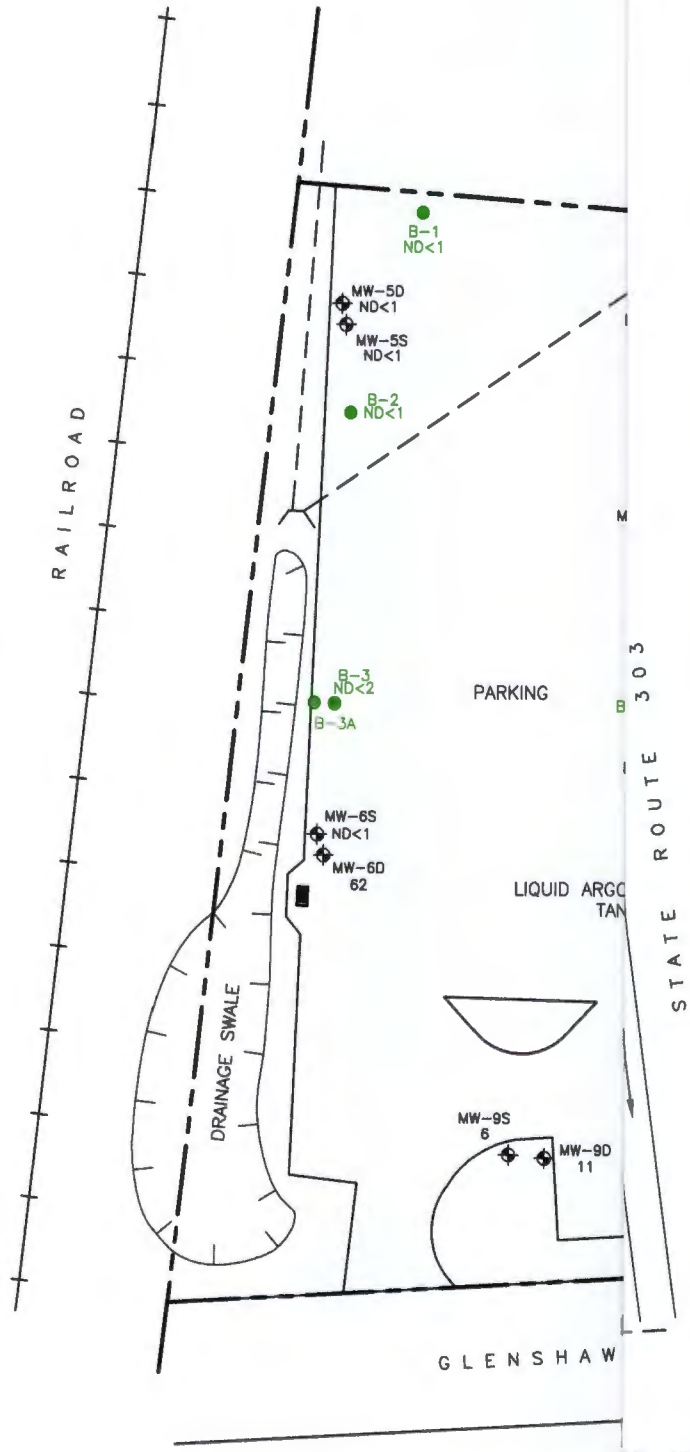
SED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	MM	DATE:	10/14/02	FIGURE:	15

O:\DWG\SONY\ORANGE\2002\Phase 3\F15.dwg, Layout1, 11/07/02 03:46:41 PM, HP DeskJet 1220



OF MOST RECENT GROUND-WATER QUALITY RESULTS
ENEATH WELL OR BORING.

LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1961
- CONSTRUCTED - 1969
- CONSTRUCTED - 1980
- MW-7S 40 MONITOR WELL LO
- ND CONCENTRATION I
- B-1 ND<1 NOT DETECTED AB
- SOIL BORING LOC
- CONCENTRATION C

542 ROUTE 303
ORANGETOWN, NEW YORK

QUALITY RESULTS FOR 1,1,1 TRICHLOROETHANE

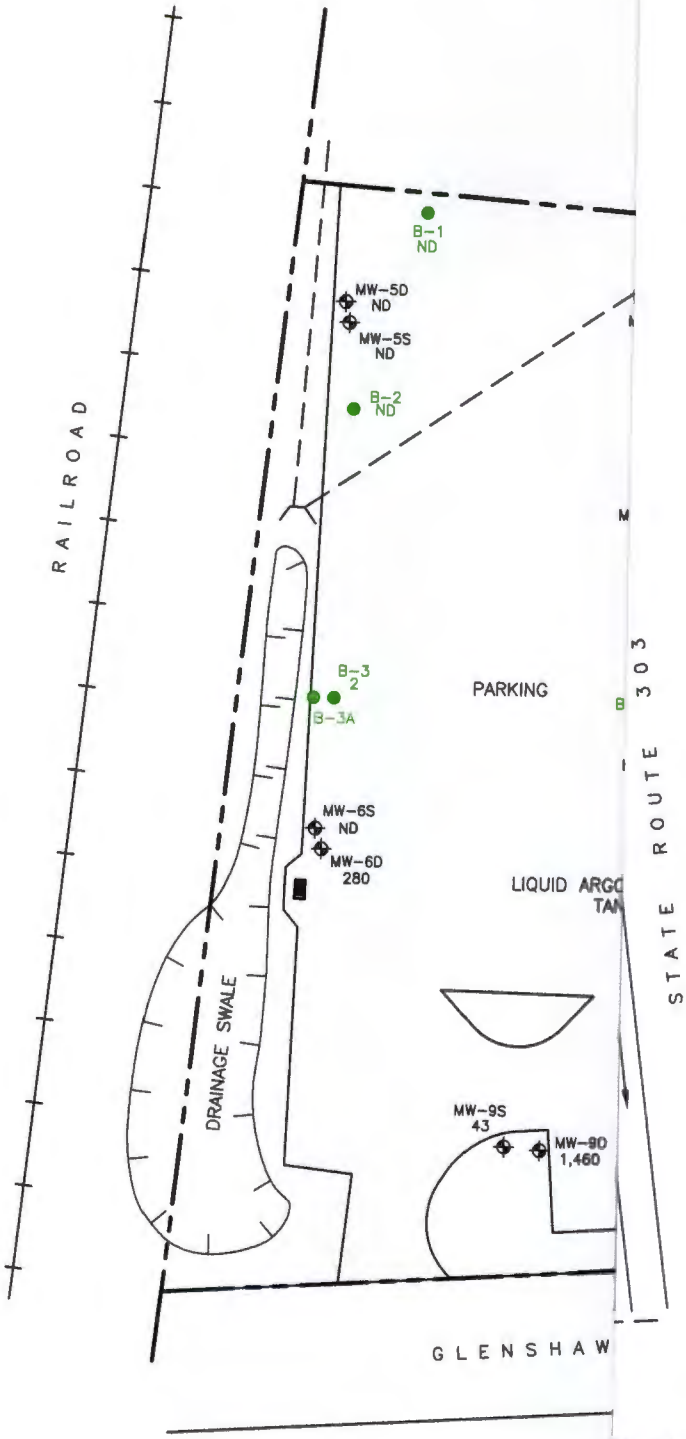
ED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	MM	DATE:	10/14/02	FIGURE:	16

O:\DWG\SONY\ORANGE\2002\Phase 3\F16.dwg, Layout1, 11/07/02 03:47:37 PM, HP DeskJet 1220



N

OF MOST RECENT GROUND-WATER QUALITY RESULTS
ENEATH WELL OR BORING.

LEGEND

- PROPERTY BOUNDARY
- FENCE
- STORM-WATER PIPING
- STORM-WATER CATCH BASIN
- SEWER DISCHARGE pH MONITOR
- TRANSFORMER
- TRASH COMPACTOR
- LD LOADING DOCK
- CONSTRUCTED - 1961
- CONSTRUCTED - 1969
- CONSTRUCTED - 1980
- MW-13 / 1 — MONITOR WELL L
- CONCENTRATION
- ND — NOT DETECTED
- B-1 / ND<1 — SOIL BORING LOC
- CONCENTRATION

542 ROUTE 303
ORANGETOWN, NEW YORK

R QUALITY RESULTS FOR TOTAL VOLATILE ORGANIC COMPOUNDS

ED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611
(203) 452-3100

CHECKED:	MM	DATE:	11/7/02	FIGURE:	17

O:\DWG\SONY\ORANGE\2002\Phase 3\F17.dwg, Layout1, 11/07/02 02:40:05 PM, HP DeskJet 122

APPENDIX I
GEOLOGIC LOGS AND WELL CONSTRUCTION DIAGRAMS

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-1 PAGE: 1 OF 1 PAGE
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 12 ft bg to 17 ft bg
DATE COMPLETED: July 9, 1999	SAND PACK SIZE & TYPE: Morie No. 1
DRILLING COMPANY: Soiltesting Inc.	SETTING: 10 ft bg to 17 ft bg
	CASING SIZE & TYPE: 2-inch PVC
DRILLING METHOD: Hollow Stem Auger	SETTING: 0 ft bg to 12 ft bg
SAMPLING METHOD: Split Spoon	SEAL TYPE: Bentonite
OBSERVER: Michael Manolakas	SETTING: 8 ft bg to 10 ft bg
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Cuttings
ELEVATION OF RP: 91.00 (Relative Datum)	STATIC WATER LEVEL: ~ 11ft bg
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION: Road box set in cement	DURATION: YIELD:
REMARKS: MW-1 was placed 5 feet south of TB-1	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	10	C				Sand, fine and silt; trace gravel; compact; reddish brown; dry.
10	12	SS	20-35-50/5	1.5	2.2	SAND, fine; some silt; some medium sand; little clay; compact; reddish brown, damp/wet.
12	15	C				SAND, fine; some silt; some medium sand; little clay; compact; reddish brown, damp/wet.
15	17	SS	50/5	0.5	2	SAND, fine; some silt; some medium sand; little clay; compact; reddish brown, damp/wet.
	17					End of boring.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-2 PAGE: 1 OF 1 PAGE
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 10 ft bg to 20 ft bg
DATE COMPLETED: July 9, 1999	SAND PACK SIZE & TYPE: Morie No. 1 SETTING: 8 ft bg to 20 ft bg
DRILLING COMPANY: Soiltesting Inc.	CASING SIZE & TYPE: 2-inch PVC SETTING: 0 ft bg to 10 ft bg
DRILLING METHOD: Hollow Stem Auger	
SAMPLING METHOD: Split Spoon	SEAL TYPE: Bentonite SETTING: 6 ft bg to 8 ft bg
OBSERVER: Michael Manolakas	
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Cuttings
ELEVATION OF RP: 95.53 (Relative Datum)	STATIC WATER LEVEL: ~ 12ft bg
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION: Road box set in cement	DURATION: YIELD:
REMARKS: Well installed as presumed upgradient monitoring point, therefore no soil samples were collected.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	12	C				Sand, fine and silt; trace cobbles; compact; reddish brown; damp.
12	20	C				Sand, fine and silt; trace cobbles; compact; reddish brown; damp/wet.
	20					End of boring.

H:\TEXTTEMP\SONY\ORANGE\MW-2.LOG

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-3 PAGE: 1 OF 1 PAGE
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 10 ft bg to 20 ft bg
DATE COMPLETED: July 9, 1999	SAND PACK SIZE & TYPE: Morie No. 1
DRILLING COMPANY: Soiltesting Inc.	SETTING: 8 ft bg to 20 ft bg
	CASING SIZE & TYPE: 2-inch PVC
DRILLING METHOD: Hollow Stem Auger	SETTING: 0 ft bg to 10 ft bg
SAMPLING METHOD: Split Spoon	SEAL TYPE: Bentonite
OBSERVER: Michael Manolakas	SETTING: 6 ft bg to 8 ft bg
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Cuttings
ELEVATION OF RP: 90.07 (Relative Datum)	STATIC WATER LEVEL: ~ 12 ft bg
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION: Road box set in cement	DURATION: YIELD:
REMARKS: MW-3 located at rear of facility near hazardous material loading area.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
0	3	C				Sand, fine and silt; compact; reddish brown; dry.
3	5	SS	20-20-19-22	1.5	2.6	SAND, medium; some silt; little clay; compact; reddish brown, damp.
5	7	SS	34-50/3	0.75	0	SAND, medium; some silt; little clay; compact; reddish brown, damp.
7	10	C				SAND, medium; some silt; little clay; compact; reddish brown, damp.
10	12	SS	35-48-50/2	0.75	0	SAND, medium; some silt; little clay; compact; reddish brown, damp.
12	20	C				SAND, medium; some silt; little clay; compact; reddish brown, damp.
	20					End of boring.

H:\TEXTTEMP\SONY\ORANGE\MW-3.LOG

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-3D PAGE: 1 OF 2 PAGE
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 45 ft bg to 30 ft bg
DATE COMPLETED: April 4, 2002	SAND PACK SIZE & TYPE: FilterSil 00
DRILLING COMPANY: Soiltesting Inc.	SETTING: 45.5 ft bg to 28 ft bg CASING SIZE & TYPE: 2-inch PVC
DRILLING METHOD: Hollow Stem Auger	SETTING: 0 ft bg to 30 ft bg
SAMPLING METHOD: Split Spoon	SEAL TYPE: Bentonite
OBSERVER: Andrew Linton	SETTING: 28 ft bg to 26 ft bg
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Cuttings
ELEVATION OF RP:	STATIC WATER LEVEL: ~ 19.06ft bg
STICK-UP:	DEVELOPMENT METHOD: Bail Purge
SURFACE COMPLETION: Road box set in cement	DURATION: 3 well volumes YIELD: 12 gal
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	2	SS	20-23-29-39	2.0	0	SAND; fine, some silt, little med sand, little gravel, trace clay; brown, some reddish brown; compact.
2	5	C	--	--	--	SAND; fine, some silt, little med sand, little gravel, trace clay; brown, some reddish brown; compact.
5	7	SS	31-54-52-60	2.0	0	SAND; fine, little silt, little medium sand, little gravel, trace clay; reddish brown; compact.
7	10	C	--	--	--	SAND; fine, little silt, little medium sand, little gravel, trace clay; reddish brown; compact.
10	12	SS	27-44-100/5	1.65	0	SAND; fine, little silt, little gravel, little clay; moist compact; reddish brown.
12	15	C	--	--	--	SAND; fine, little silt, little gravel, little clay; moist compact; reddish brown.
15	17	SS	59-112/6	1.40	0	SAND; fine, little silt, little gravel, trace clay,:compact; reddish brown.
17	20	C	--	--	--	SAND; fine, little silt, little gravel, trace clay,:compact; reddish brown.
20	22	SS	60-82-120/6	1.25	0	SAND; some silt, little clay, little gravel, compact; reddish brown.

OWNER: Sony Electronics, Inc.

WELL NO.: MW-3D

DEPTH (FEET) FROM	TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
22	25	C	--	--	--	SAND; some silt, little clay, little gravel, compact; reddish brown.
25	27	SS	100/3	0.40	0	SAND; fine, some silt, little clay, little gravel; moist compact; reddish brown.
27	30	C	--	--	--	SAND; fine, some silt, little clay, little gravel; moist compact; reddish brown.
30	32	SS	127-100/4	0.85	0	SAND; little - some silt, little clay, little gravel, trace medium sand,; compact, reddish brown.
32	35	C	--	--	--	SAND; little - some silt, little clay, little gravel, trace medium sand,; compact, reddish brown
35	37	SS	200/6	0.55	0	SAND; little-some silt, little clay, little gravel, little medium sand; compact moist; reddish brown.
37	40	C	--	--	--	SAND; little-some silt, little clay, little gravel, little medium sand; compact moist; reddish brown.
40	42	SS	71-75-100/3	1.55	0	SAND; fine, some medium sand, little silt, trace clay and gravel; moist-wet compact; reddish brown.
42	45	C	--	--	--	SAND; fine, some medium sand, little silt, trace clay and gravel; moist-wet compact; reddish brown.
45	47	SS	58-91-100/6	1.85	0	SAND and SILT; fine, some clay, little small gravel; very compact and wet; reddish brown.
47	50	C	--	--	--	SAND and SILT; fine, some clay, little small gravel; very compact and wet; reddish brown.
50	52	SS	86-49-56-65	1.85	0	SANDSTONE; decomposed soft sandstone, fine - medium sand, little silt, little clay; compact; reddish brown.
	52					End of boring.

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

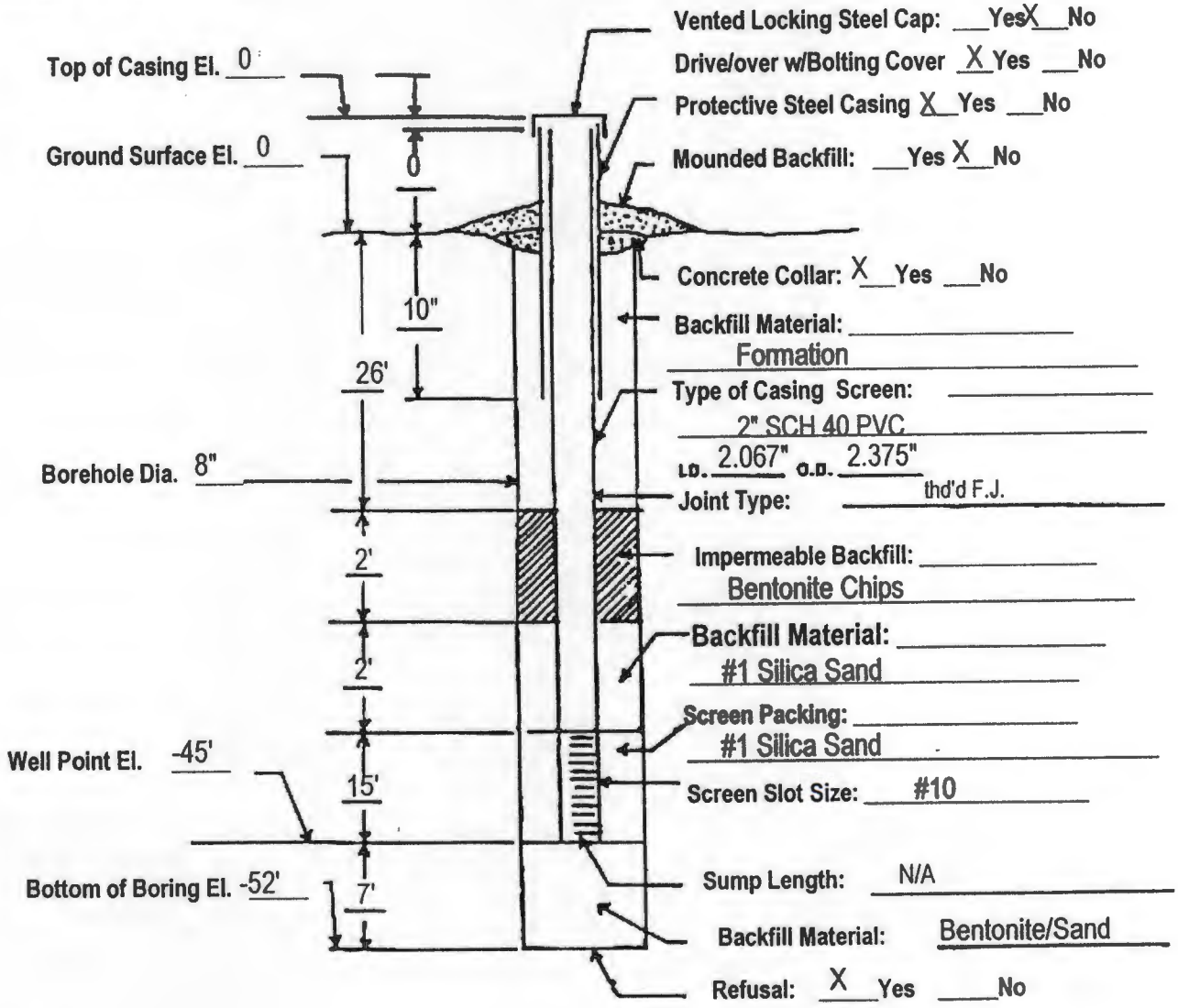
SOILTESTING, INC.

140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

Monitor Well # MW-3D

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	30'	Bentonite Chips	2 1/2 bags	Lock	
Plug (PVC)	(1)	Concrete Mix	1 1/2 bags	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	600#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-4 PAGE: 1 OF 1 PAGE
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 5 ft bg to 15 ft bg
DATE COMPLETED: July 9, 1999	SAND PACK SIZE & TYPE: Morie No. 1 SETTING: 3 ft bg to 15 ft bg
DRILLING COMPANY: Soiltesting Inc.	CASING SIZE & TYPE: 2-inch PVC SETTING: 0 ft bg to 5 ft bg
DRILLING METHOD: Hollow Stem Auger	
SAMPLING METHOD: Split Spoon	SEAL TYPE: Bentonite SETTING: 1 ft bg to 3 ft bg
OBSERVER: Michael Manolakas	
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Cuttings
ELEVATION OF RP: 86.00 (Relative Datum)	STATIC WATER LEVEL: ~ 3 ft bg
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION: Road box set in cement	DURATION: YIELD:
REMARKS: MW-4 located near southwestern loading dock.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
0	1	C				SAND, fine; some silt; compact; brown; dry.
1	3	SS	5-11-13-13	1.5	2.4	Sand, fine and silt; compact; reddish brown, damp.
3	5	C				Sand, fine and silt; compact; reddish brown, wet.
5	7	SS	8-8-12-13	2	1	SILT; some clay; compact; brown, wet.
7	15	C				SILT; some clay; compact; brown, wet.
	15					End of boring.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-4D PAGE: 1 OF 2 PAGE
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 38 ft bg to 23 ft bg
DATE COMPLETED: March 26, 2002	SAND PACK SIZE & TYPE: FilterSil 00 SETTING: 39 ft bg to 21 ft bg
DRILLING COMPANY: Soiltesting Inc.	CASING SIZE & TYPE: 2-inch PVC SETTING: 0 ft bg to 23 ft bg
DRILLING METHOD: Hollow Stem Auger	SEAL TYPE: Bentonite SETTING: 21 ft bg to 19 ft bg
SAMPLING METHOD: Split Spoon	BACKFILL TYPE: Cuttings
OBSERVER: Andrew Linton	STATIC WATER LEVEL: 17.88ft bg
REFERENCE POINT (RP): Grade	DEVELOPMENT METHOD: Bail Purge
ELEVATION OF RP:	DURATION: 3 well volumes YIELD: 6.5 gal
STICK-UP:	
SURFACE COMPLETION: Road box set in cement	
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
1	3	SS	7-25-30-22	2.0	0	SAND; fine, little silt, trace clay, some gravel; compact; reddish brown
3	5	C	--	--	--	SAND; fine, little silt, trace clay, some gravel; compact; reddish brown
5	7	SS	7-7-15-8	2.0	0	SAND; fine, some silt, trace clay, medium sand and gravel; compact; reddish brown
7	10	C	--	--	--	SAND; fine, some silt, trace clay, medium sand and gravel; compact; reddish brown
10	12	SS	30-39-33-30	2.0	0	SAND; fine, some silt, trace medium sand, gravel and clay; compact; reddish brown
12	15	C	--	--	--	SAND; fine, some silt, trace medium sand, gravel and clay; compact; reddish brown
15	17	SS	65-50/4	1.0	0	SAND; fine, silt, trace clay and gravel, large piece gravel; compact; reddish brown
17	20	C	--	--	--	SAND; fine, silt, trace clay and gravel, large piece gravel; compact; reddish brown
20	22	SS	30-60/3	0.89	0	SAND; fine, little medium sand, trace gravel and clay; little silt; compact; moist; brown
22	25	C				SAND; fine, silt, little clay; saturated at 23 ft bg; brown.

OWNER: Sony Electronics, Inc.

WELL NO.: MW-4D

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
25	30	C				SAND; fine, silt, little clay; trace gravel; wet; brown.
30	35	C				SAND; fine, silt, little clay; trace gravel; wet; brown.
35	40	C				SAND; fine, silt, little clay; trace gravel; wet; brown. brown.
40	43	C				Top 2 feet: SAND; fine, silt, little clay; trace gravel; wet; brown. brown. Bottom 1 foot: SANDSTONE; decomposed soft sandstone, fine to medium sand, little silt, little clay; compact; reddish brown.
	43					End of boring.

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

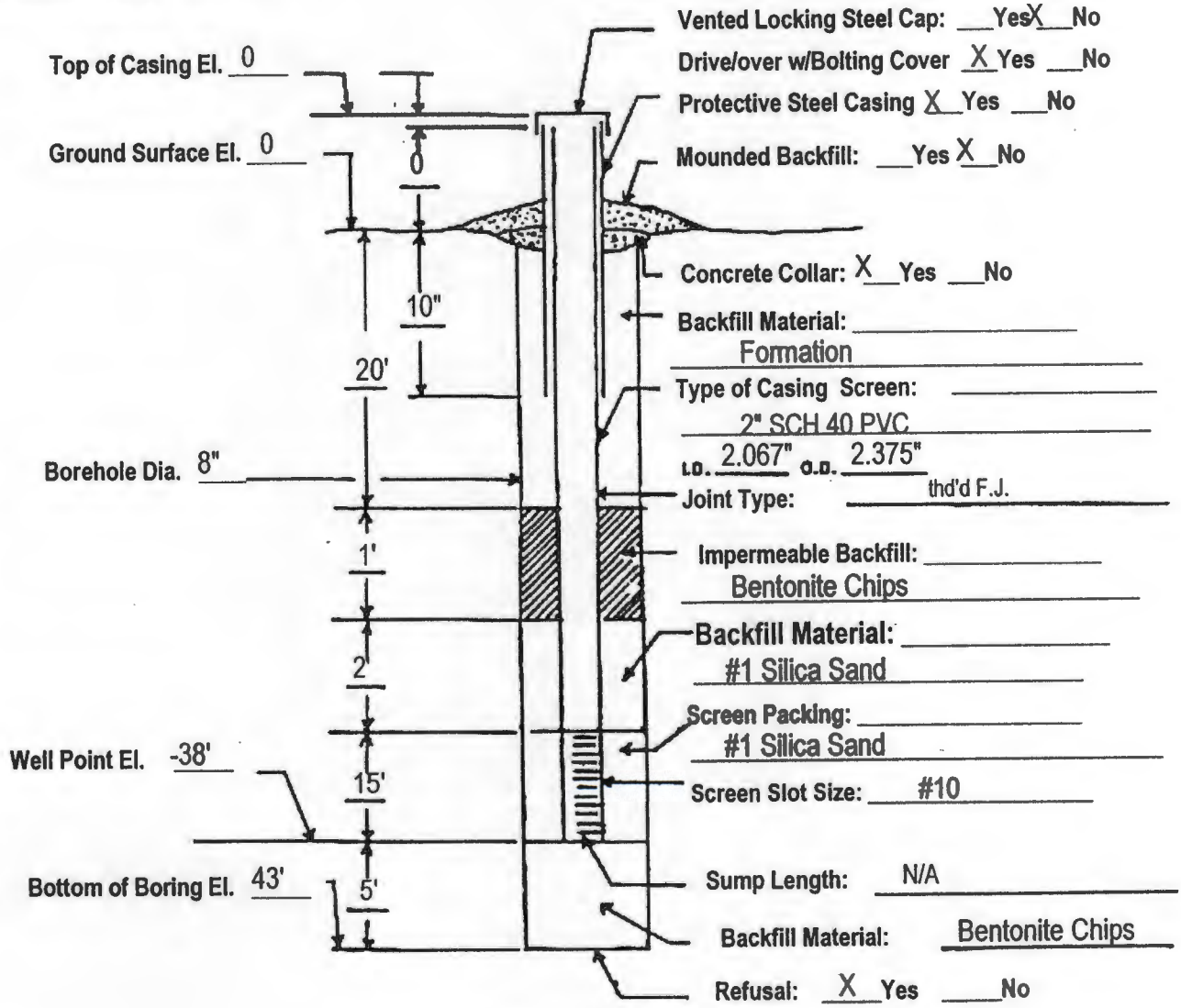
SOILTESTING, INC.

140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

Monitor Well # MW-4D

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	25'	Bentonite Chips	1 1/2 bags	Lock	
Plug (PVC)	(1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	600#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-5S PAGE: 1 OF 1 PAGES
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 10 ft bg to 20 ft bg
DATE COMPLETED: September 8, 1999	SAND PACK SIZE & TYPE: Morie No. 1 SETTING: 8 ft bg to 20 ft bg
DRILLING COMPANY: Soiltesting Inc.	CASING SIZE & TYPE: 2-inch PVC SETTING: 0 ft bg to 10 ft bg
DRILLING METHOD: Hollow Stem Auger	
SAMPLING METHOD:	SEAL TYPE: Bentonite SETTING: 6 ft bg to 8 ft bg
OBSERVER: Greg Cellamare	
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Cuttings
ELEVATION OF RP:	STATIC WATER LEVEL: ~7 ft bg
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION: Road box set in cement	DURATION: YIELD:
REMARKS: Located near western property line. See geologic log of Monitor Well MW-5D for details of geology and photoionization detector measurements.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-5D PAGE: 1 OF 2 PAGES
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 25 ft bg to 45 ft bg
DATE COMPLETED: September 8, 1999	SAND PACK SIZE & TYPE: Morie No. 1
DRILLING COMPANY: Soiltesting Inc.	SETTING: 23 ft bg to 45.5 ft bg
	CASING SIZE & TYPE: 2-inch PVC
DRILLING METHOD: Hollow Stem Auger	SETTING: 0 ft bg to 25 ft bg
SAMPLING METHOD: Split Spoon	SEAL TYPE: Bentonite
OBSERVER: Michael Manolakas/Greg Cellamare	SETTING: 21 ft bg to 23 ft bg and 45.5 ft bg to 48 ft bg
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Cuttings
ELEVATION OF RP:	STATIC WATER LEVEL: ~7 ft bg
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION: Road box set in cement	DURATION: YIELD:
REMARKS: Located on northeast corner of property. Minie Ray used to measure VOCs. Till started at approximately 20 ft bg.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	1	C				Silt; some fine sand; trace fine to medium gravel; compact; reddish brown; damp.
1	3	SS	21-32-37-36	1.75	0	Silt; some fine sand; trace fine to medium gravel; compact; reddish brown; damp.
3	5	SS	20-11-12-26	1.5	0	Clay, some silt; trace fine gravel; compact; grey; damp.
5	10	C				Silt; some fine sand; compact; reddish brown; wet at 7 ft bg.
10	12	SS	11-15-27-34	1.75	0	Silt; some clay, trace fine to medium gravel; compact; reddish brown; wet.
12	15					Silt; some clay, trace fine to medium gravel; compact; reddish brown; wet.
15	17	SS	26-40-50-38	1.75	0	Silt; some clay; trace fine to medium gravel; compact; reddish brown; wet.
17	20	C				Silt; some clay; trace fine to medium gravel; compact; reddish brown; wet.
20	22	SS	47-50-50/2	1.0	0	Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.
22	25	C				Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.

OWNER: Sony Electronics, Inc.

WELL NO.: MW-5D

DEPTH (FEET) FROM	TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
25	27	SS	37-51-48-50	1.80	0	Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.
27	30	C				Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.
30	32	SS	38-43-100	0.25	0	Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.
31	35	C				Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.
35	37	SS	18-70-50/3	1.0	0	Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.
37	40	C				Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.
40	42	SS	50/1	0.1	0	Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.
42	45	C				Clay; some fine to medium gravel; little silt; boulder at 43 ft bg to 43.5 ft bg; compact; reddish brown; wet.
45	48	C				Clay; some fine to medium gravel; little silt; compact; reddish brown; wet.
48	48.25	SS	100/1	0.25	0	Bedrock (red sandstone, probably Triassic); dry.
48.25						End of boring.

H:\TEXTTEMP\SONY\ORANGE\MW-5D.LOG

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-6S PAGE: 1 OF 1 PAGES
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 10 ft bg to 20 ft bg
DATE COMPLETED: September 8, 1999	SAND PACK SIZE & TYPE: Morie No. 1 SETTING: 8 ft bg to 20 ft bg
DRILLING COMPANY: Soiltesting Inc.	CASING SIZE & TYPE: 2-inch PVC SETTING: 0 ft bg to 10 ft bg
DRILLING METHOD: Hollow Stem Auger	
SAMPLING METHOD:	SEAL TYPE: Bentonite SETTING: 6 ft bg to 8 ft bg
OBSERVER: Greg Cellamare	
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Cuttings
ELEVATION OF RP:	STATIC WATER LEVEL: ~ 7.5 ft bg
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION: Road box set in cement	DURATION: YIELD:
REMARKS: Located near western property line. See geologic log of Monitor Well MW-6D for details of geology and photoionization detector measurements.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					

H:\TEXTTEMP\SONY\ORANGE\MW-6S.LOG

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: MW-6D PAGE: 1 OF 2 PAGES
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO. 10 :SETTING: 26.5 ft bg to 41.5 ft bg
DATE COMPLETED: September 9, 1999	SAND PACK SIZE & TYPE: Morie No. 1 SETTING: 25 ft bg to 42 ft bg
DRILLING COMPANY: Soiltesting Inc.	CASING SIZE & TYPE: 2-inch PVC SETTING: 0 ft bg to 26.5 ft bg
DRILLING METHOD: Hollow Stem Auger	
SAMPLING METHOD: Split Spoon	SEAL TYPE: Bentonite SETTING: 23 ft bg to 25 ft bg and 42 ft bg to 44 ft bg
OBSERVER: Greg Cellamare	
REFERENCE POINT (RP): Grade	BACKFILL TYPE: Cuttings
ELEVATION OF RP:	STATIC WATER LEVEL: ~7.5 ft bg
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION: Road box set in cement	DURATION: YIELD:
REMARKS: Located near western property line. Determinator used to measure VOCs. Till started at approximately 17 ft bg.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million ft bg = feet below grade	

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
0	1	C				Silt; compact; reddish brown; damp.
1	3	SS	18-27-31-34	1.75	0.6	Silt; some fine sand; trace medium gravel; compact; reddish brown; damp.
3	5	SS	13-11-14-24	1.0	0.8	Clay, some silt; trace medium gravel; compact; grey-green; damp.
5	7	SS	24-11-13-16	0.75	2.0	Clay, some silt; trace fine to medium gravel; compact; grey-green; damp.
7	10	C				Clay, some silt; trace fine to medium gravel; compact; grey-green; wet at 7.5 ft bg.
10	12	SS	24-25-23-24	1.60	1.6	Silt; some clay, trace fine to medium gravel; compact; reddish brown; wet.
12	15	C				Silt; some clay, trace fine to medium gravel; compact; reddish brown; wet.
15	17	SS	32-36-41-40	1.0	2.1	Silt; some clay, trace fine to medium gravel; compact; reddish brown; wet.
17	25	C				Silt; some clay; trace fine to medium gravel; trace boulder; compact; reddish brown; wet.
25	27	SS	27-18-24-29	1.4	1.5	Clay; some silt; trace fine to medium gravel; compact; reddish brown; wet.

OWNER: Sony Electronics, Inc.

WELL NO.: MW-6D

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
27	35	C				Clay; little silt; trace fine to medium gravel; trace boulder; compact; reddish brown; wet.
35	37	SS	38-50	0.5	2.5	Clay; little silt; trace medium gravel; compact; reddish brown; wet.
37	44	C				Clay; little silt; trace medium gravel; compact; reddish brown; wet.
44	44.25	SS	100/1	0.25	0	Bedrock (red sandstone, probably Triassic); dry.
44.25						End of boring.

H:\TEXTTEMP\SONY\ORANGE\MW-6D.LOG

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO.:** MW-7S **PAGE:** 1 **OF** 1 **PAGE**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** **SLOT NO.** 10 **:SETTING:** 5 ft bg to 20 ft bg
DATE COMPLETED: April 2, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soiltesting Inc.	**SETTING:** 4 ft bg to 20 ft bg **CASING SIZE & TYPE:** 2-inch PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 ft bg to 5 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 2 ft bg to 4 ft bg
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP:	**STATIC WATER LEVEL:** 8.72
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Road box set in cement	**DURATION:** 3 well volumes **YIELD:** 5.5 gal
REMARKS: See geologic log of Monitor Well MW-7d for details of geology and photoionization detector meaurements.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million ft bg = feet below grade**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

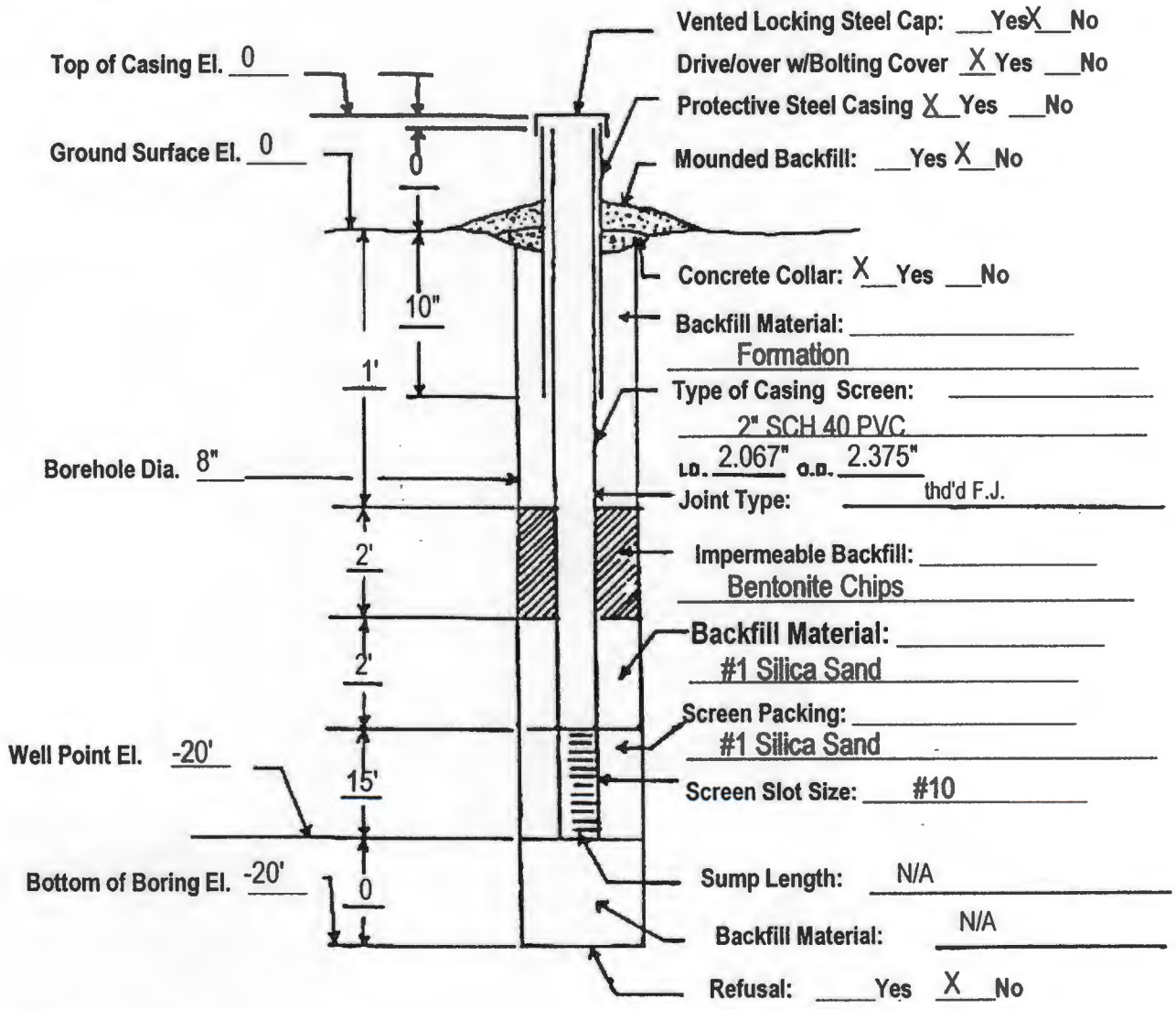
SOILTESTING, INC.

140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02

Monitor Well # MW-7S



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	5'	Bentonite Chips	1/2 bag	Lock	
Plug (PVC)	(1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	600#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO.:** MW-7D **PAGE:** 1 OF 1 PAGE
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** **SLOT NO.** 10 **:SETTING:** 25 ft bg to 40 ft bg
DATE COMPLETED: April 2, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soiltesting Inc.	**SETTING:** 23 ft bg to 40 ft bg **CASING SIZE & TYPE:** 2-inch PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 25 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 21ft bg to 23 ft bg
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP:	**STATIC WATER LEVEL:** 13.71
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Road box set in cement	**DURATION:** 3 well volumes **YIELD:** 8 gal
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million ft bg = feet below grade**	

DEPTH (FEET) FROM	TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
1	3	SS	13-12-12-16	1.0	0	SAND; fine, little medium sand, little silt, little gravel, trace clay; compact; brown to brownish gray
3	5	C	--	--	--	SAND; fine, little medium sand, little silt, little gravel, trace clay; compact; brown to brownish gray
5	7	SS	16-20-26-30	1.85	0	SAND; fine, little-some gravel, little medium sand, trace silt and clay; compact, reddish brown
7	10	C	--	--	--	SAND; fine, little-some gravel, little medium sand, trace silt and clay; compact, reddish brown
10	12	SS	55-54-59-65	1.75	0	SAND; fine, little medium sand, little gravel, trace clay and silt; compact; reddish brown
12	15	C	--	--	--	SAND; fine, little medium sand, little gravel, trace clay and silt; compact; reddish brown
15	17	SS	75/1	0	0	No record
17	20	C	--	--	--	SAND; fine, little silt, gravel and clay; compact; brown - gray brown
20	22	SS	69-80-100/6	1.8	1.3	SAND; fine, little silt, gravel and clay; compact; brown - gray brown
22	25	C	--	--	--	SAND; fine, little silt, gravel and clay; compact; brown - gray brown

OWNER: Sony Electronics, Inc.

WELL NO.: MW-7D **PAGE: 2 OF 2 PAGES**

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
25	27	SS	86-75/1	0.75	1.5	SAND; fine, little silt, little trace clay, little-trace gravel; compact; medium brown
27	30	C	--	--	--	SAND; fine, little silt, little trace clay, little-trace gravel; compact; medium brown
30	32	SS	59-78-70/3	1.0	0	SAND; fine, silt, some little clay, little gravel; compact; brown-grayish brown
		C	--	--	--	SAND; fine, silt, some little clay, little gravel; compact; brown-grayish brown
35	37	SS	68-100/4	1.25	0.5	SAND; fine, little silt and clay, little gravel; very moist compact; brown
40	42.5	C	--	--	--	boulder or bedrock.
42.5	44.5	SS	120/6	0.5	2.0	Silt and clay, little fine sand and gravel; very moist compact; brown.
	44.5					End of boring due to refusal.

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

SOILTESTING, INC.

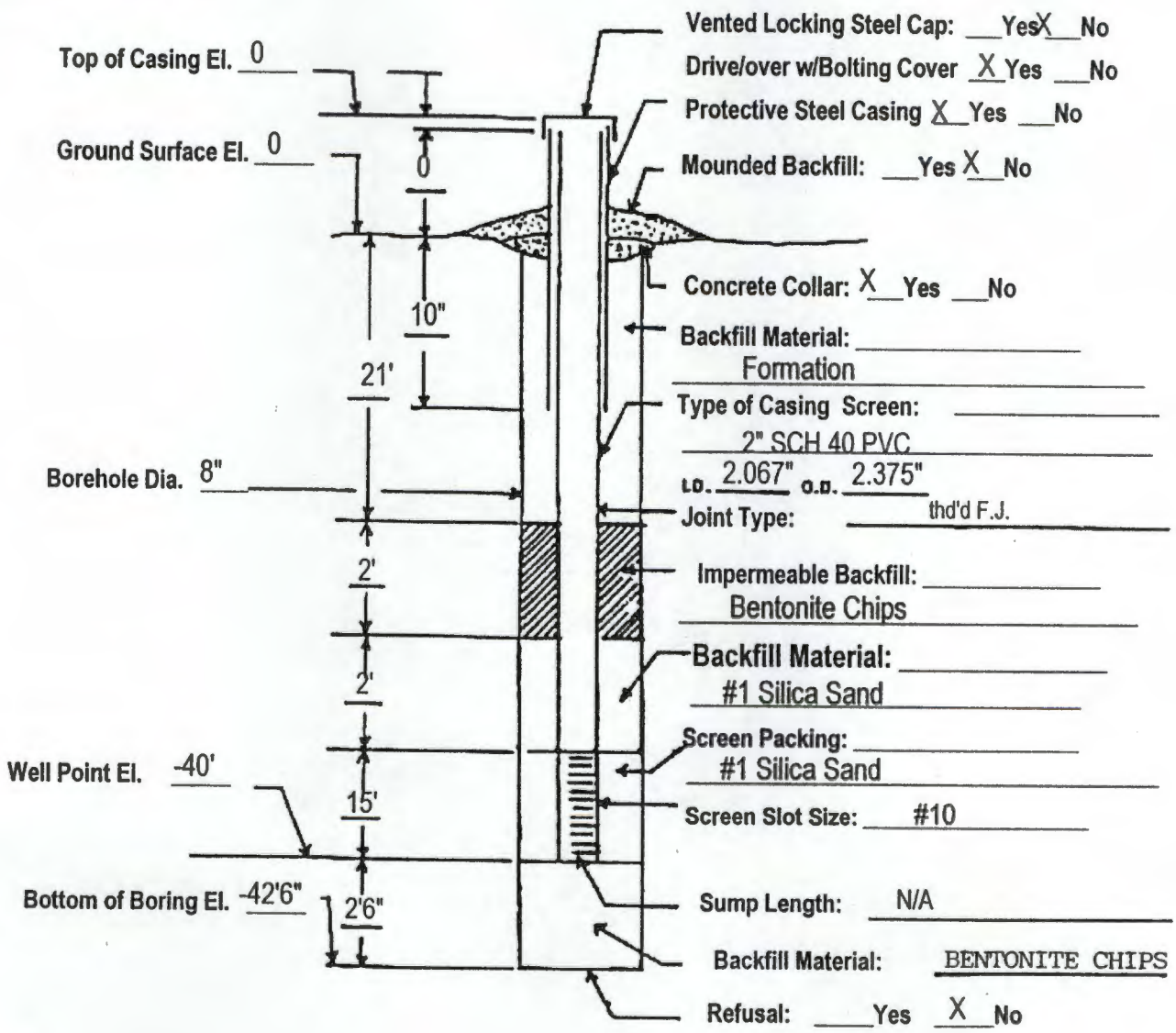
140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

CLIENT: Leggette Brashears & Graham

Monitor Well # MW-7D

JOB# : E22-6426-02



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	25'	Bentonite Chips	1 bag	Lock	
Plug (PVC)	(1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	600#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-8S **PAGE 1 OF 1 PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 5 ft bg to 20 ft bg
DATE COMPLETED: April 3, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	**SETTING:** 40 ft bg to 20 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 5 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 2 ft bg to 4 ft bg
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP: --	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:**
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** **YIELD:**
REMARKS: See geologic log of Monitor Well MW-8D for details of geology and photoionization detector measurements.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

SOILTESTING, INC.

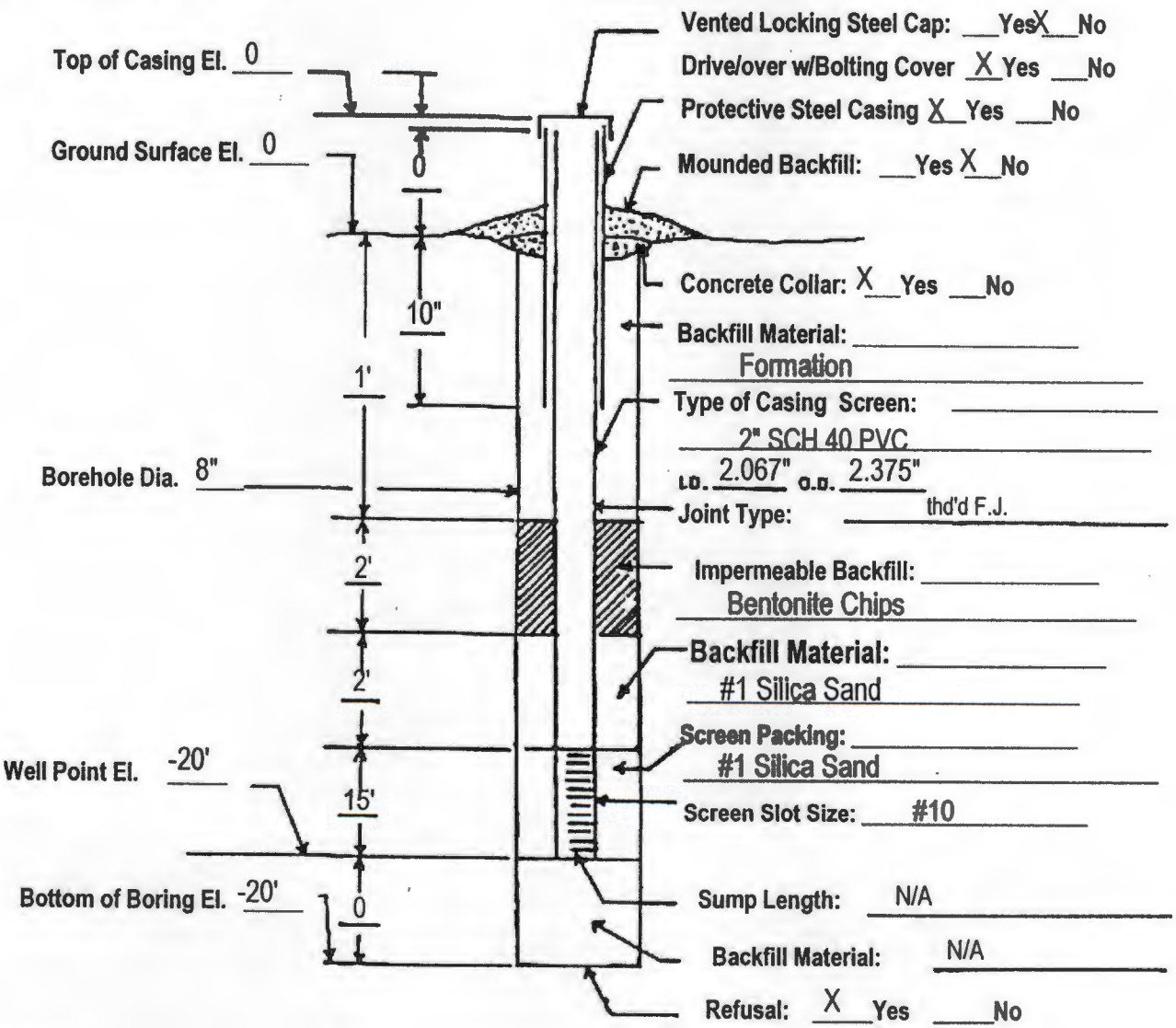
140 OXFORD ROAD - OXFORD, CONN. 06478-1943

MONITOR WELL INSTALLATION DETAIL

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02

Monitor Well # MW- 8S



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	5'	Bentonite Chips	1/2 bag	Lock	
Plug (PVC)	(1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	600#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-8D **PAGE 1 OF 2 PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 30.5 ft bg to 46.5 ft bg
DATE COMPLETED: April 4, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00 **SETTING:** 27.5 ft bg to 47 ft bg
DRILLING COMPANY: Soil Testing Inc.	**CASING SIZE & TYPE:** 2" PVC **SETTING:** 0.2 to 30.5 ft bg
DRILLING METHOD: Hollow Stem Auger	
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite **SETTING:** 24.5 ft bg to 27.5 ft bg and 47 ft bg to 52 ft bg
OBSERVER: Andrew Linton	
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP: --	**STATIC WATER LEVEL:** 202
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:** 12 gal
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	2	SS	29-27-31-38	1.5	0	SAND; fine, some silt, little sand, trace gravel; compact; reddish brown.
2	5	C				SAND; fine, some silt, little sand, trace gravel; compact; reddish brown.
5	7	SS	32-55-87-62	1.8	0	SAND; fine, some silt, trace gravel; compact; reddish brown; damp.
7	10	C				SILT; some fine sand, trace gravel; compact; reddish brown; damp.
10	12	SS	100/4	0.4	0	SILT; some fine sand, trace gravel; compact; reddish brown; damp.
12	15	C				SILT; some fine sand, trace gravel; compact; reddish brown; damp.
15	17	SS	79-100/4	0.7	0	SILT; fine sand, trace gravel; compact; reddish brown; damp.

OWNER: Sony Electronics, Inc.

WELL NO.: MW-8D

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
17	20	C				SILT; fine sand, trace gravel; compact; reddish brown; damp.
20	22	SS	16-100/5	0.6	0	SAND; fine, some silt, trace gravel; compact; reddish brown; damp.
22	25	C				SAND; fine, some silt, trace gravel; compact; reddish brown; damp.
25	27	SS	74-100/2	0.5	0	SAND; fine, some silt, trace gravel; compact; reddish brown; damp.
27	30	C				SAND; fine, some silt, trace gravel; compact; reddish brown; wet.
30	32	SS	150/5	0.4	0	SAND; fine, some silt, trace gravel; compact; reddish brown; wet.
32	35	C				SAND; fine, some silt, trace gravel; compact; reddish brown; wet.
35	37	SS	52-65-100/3	0.7	0	SAND; fine, some silt, little medium sand, trace gravel; compact; reddish brown; wet.
37	40	C				SAND; fine, some silt, little medium sand, trace gravel; compact; reddish brown; wet.
40	42	SS	49-57-38-62	1.2	0	SAND; fine, some silt, little coarse sand; compact; reddish brown; wet.
42	45	C				SAND; fine, some silt, little coarse sand; compact; reddish brown; wet.
45	47	SS	100-100/4	0	0	SILT and SAND; fine, trace gravel; compact; reddish brown; wet.
47	50	C				SILT and SAND; fine, trace gravel; compact; reddish brown; wet.
50	52	SS	150/5	0.4	0	Bedrock- red Triassic sandstone; damp.

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

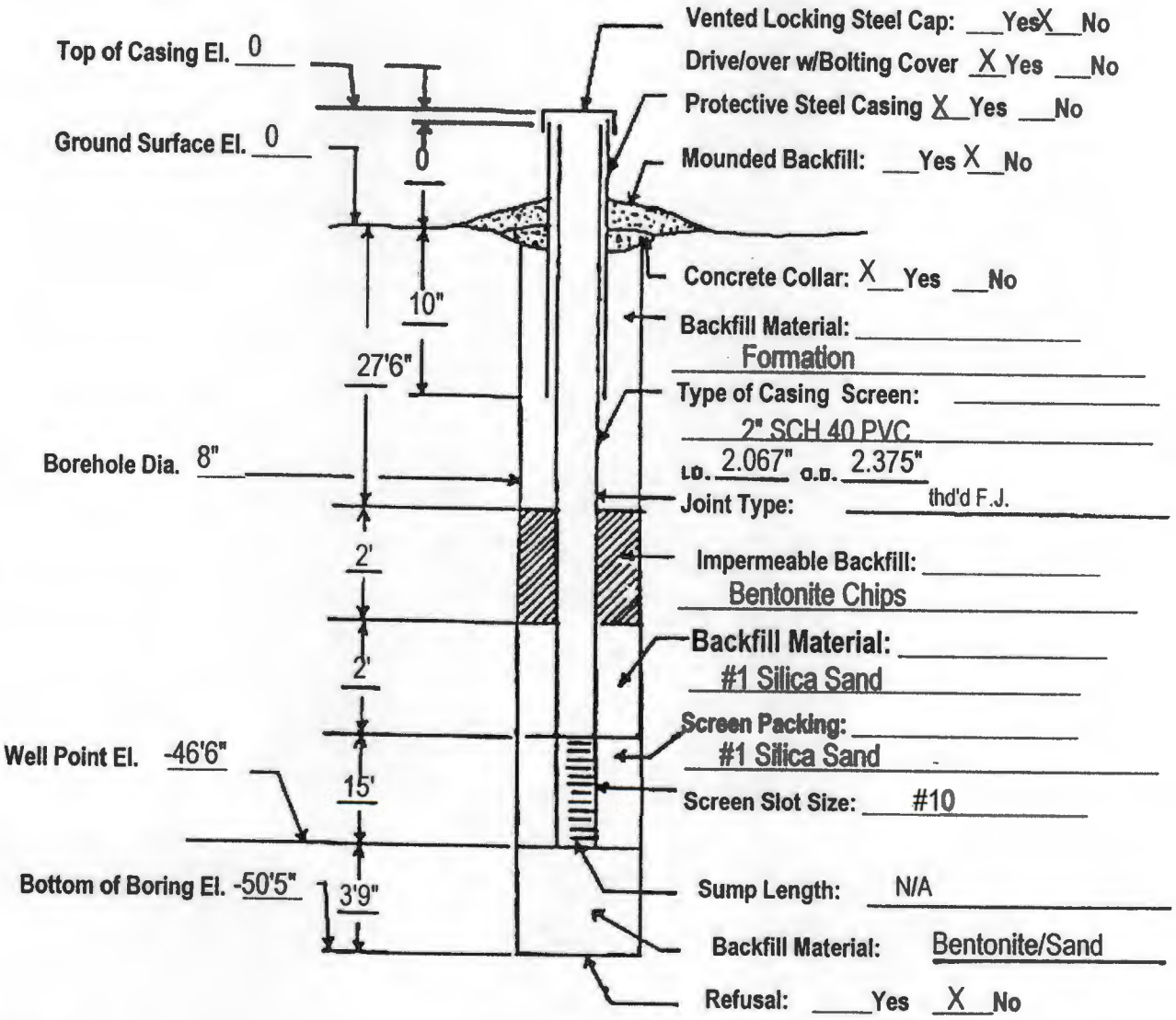
SOILTESTING, INC.

140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

Monitor Well # MW-8D

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	35'	Bentonite Chips	1 1/2 bags	Lock	
Plug (PVC)	(1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	750#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-9S **PAGE** 1 **OF** 1 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 5 ft bg to 20 ft bg
DATE COMPLETED: April 4, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	**SETTING:** 35 ft bg to 20 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 5 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 2 ft bg to 4 ft bg
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP:	**STATIC WATER LEVEL:** 10.34
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:** 5 gal
REMARKS: See geologic log MW-9D for geology details and Photoionization Detector Measurements.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

SOILTESTING, INC.

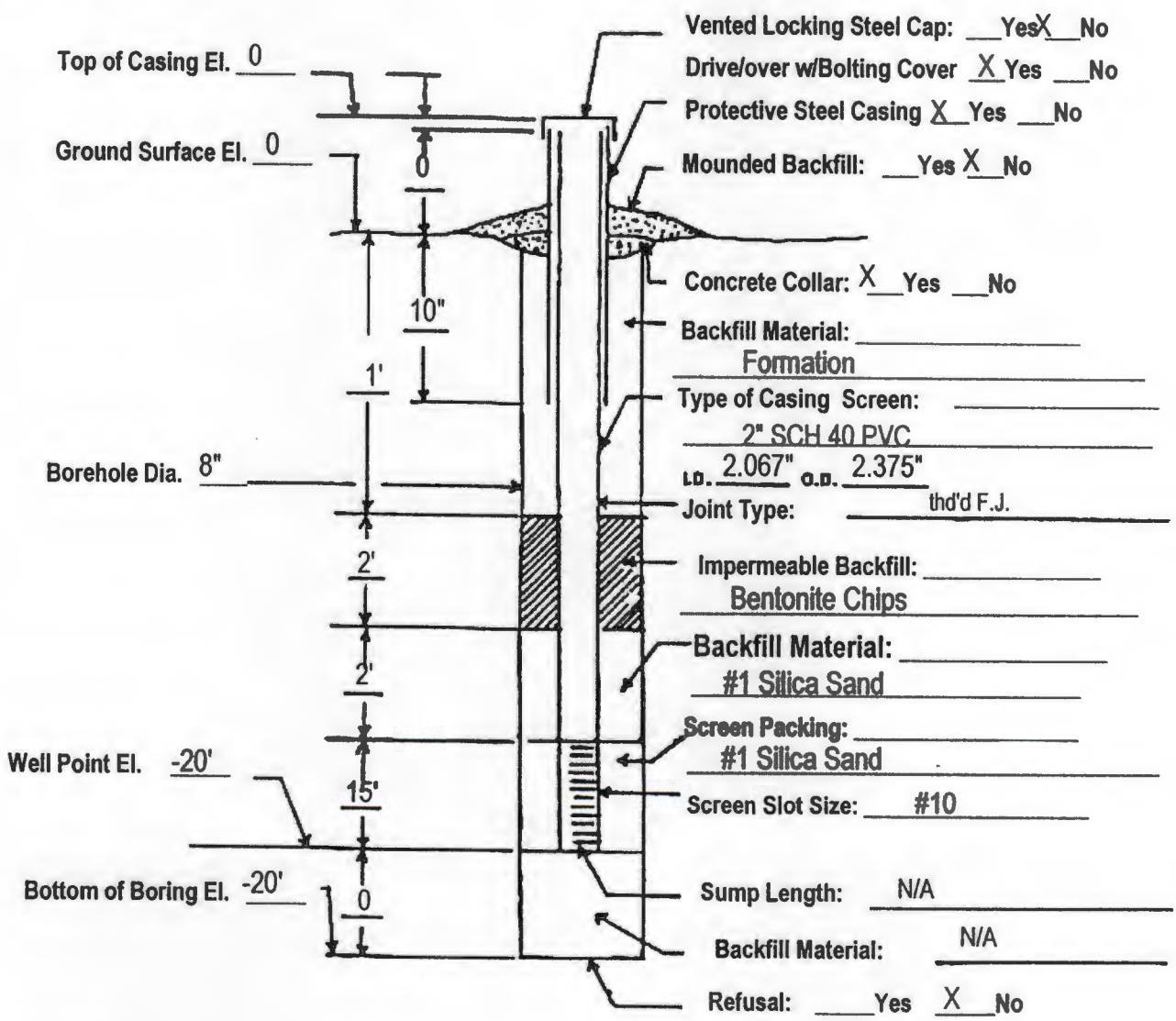
140 OXFORD ROAD - OXFORD, CONN. 06478-1943

MONITOR WELL INSTALLATION DETAIL

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

Monitor Well # MW-9S

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02



Materials Used:

Screen	(PVC)	15'	Bentonite Pellets		Locking Exp. Plug (1)
Riser	(PVC)	5'	Bentonite Chips	1/2 bag	Lock
Plug	(PVC)	(1)	Concrete Mix	1 bag	D/O (1)
Slip Cap	(PVC)		Portland		S/U
Silica Sand		600#			
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-9D **PAGE** 1 **OF** 1 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 44 ft bg to 29 ft bg
DATE COMPLETED: April 4, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	**SETTING:** 27 ft bg to 44.5 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 29 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 24.5 ft bg to 27 ft bg
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP: --	**STATIC WATER LEVEL:** 11.76
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:** 12 gal
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	2	SS	7-11-19-15	1.25	0	Topsoil –Organics; SAND; fine, little silt, little gravel, trace clay; medium brown, reddish brown.
2	5	C				SAND; fine-medium, some gravel, little silt, little clay, damp, reddish brown
5	7	SS	4-5-7-6	0	0	No record.
7	10	C				SAND; fine-medium, some gravel, little silt, little clay, damp, reddish brown
10	12	SS	17-22-21-30	1.4	0	SAND; fine-medium, some gravel, little silt and clay; wet; reddish brown
12	15	C				SAND; fine-medium, some gravel, little silt and clay; wet; reddish brown
15	17	SS	60-75/5	1.35	0	SAND; fine, little medium sand, little gravel, little silt, trace clay; reddish brown; compact moist.

OWNER: Sony Electronics, Inc.

WELL NO.: MW-9D

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
17	20	C				SAND; fine, little medium sand, little gravel, little silt, trace clay; reddish brown; compact moist.
20	22	SS	61-98-50/2	1.70	0	SAND; fine, little clay, little silt, little gravel; compact; brown-reddish brown.
22	25	C				SAND; fine, little clay, little silt, little gravel; compact; brown-reddish brown.
25	27	SS	103/6	1.0	0	SAND; fine, some silt, little clay, little gravel; wet; brown to reddish brown.
27	30	C				SAND; fine, some silt, little clay, little gravel; wet; brown to reddish brown.
30	32	SS	87-5-/3	1.05	0	SAND; fne, little medium sand and gravel, little silt, trace clay; compact; brown to medium reddish brown.
32	35	C				SAND; fne, little medium sand and gravel, little silt, trace clay; compact; brown to medium reddish brown.
35	37	SS	165/6	0.85	0	SAND; fine, little gravel, little silt, trace medium sand and clay; compact; brown to reddish brown.
37	40	C				SAND; fine, little gravel, little silt, trace medium sand and clay; compact; brown to reddish brown.
40	42	SS	121/5	0.85	0	SAND; fine, little gravel and silt, trace clay; compact; brown.
42	45	C				SAND; fine, little gravel and silt, trace clay; compact; brown.
45	47	SS	59-112-100	1.5	0	SAND; fine, some silt, little clay, little gravel; very compact, moist; brown with some reddish brown.
	47					Refusal at bedrock.

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4860

MONITOR WELL INSTALLATION DETAIL

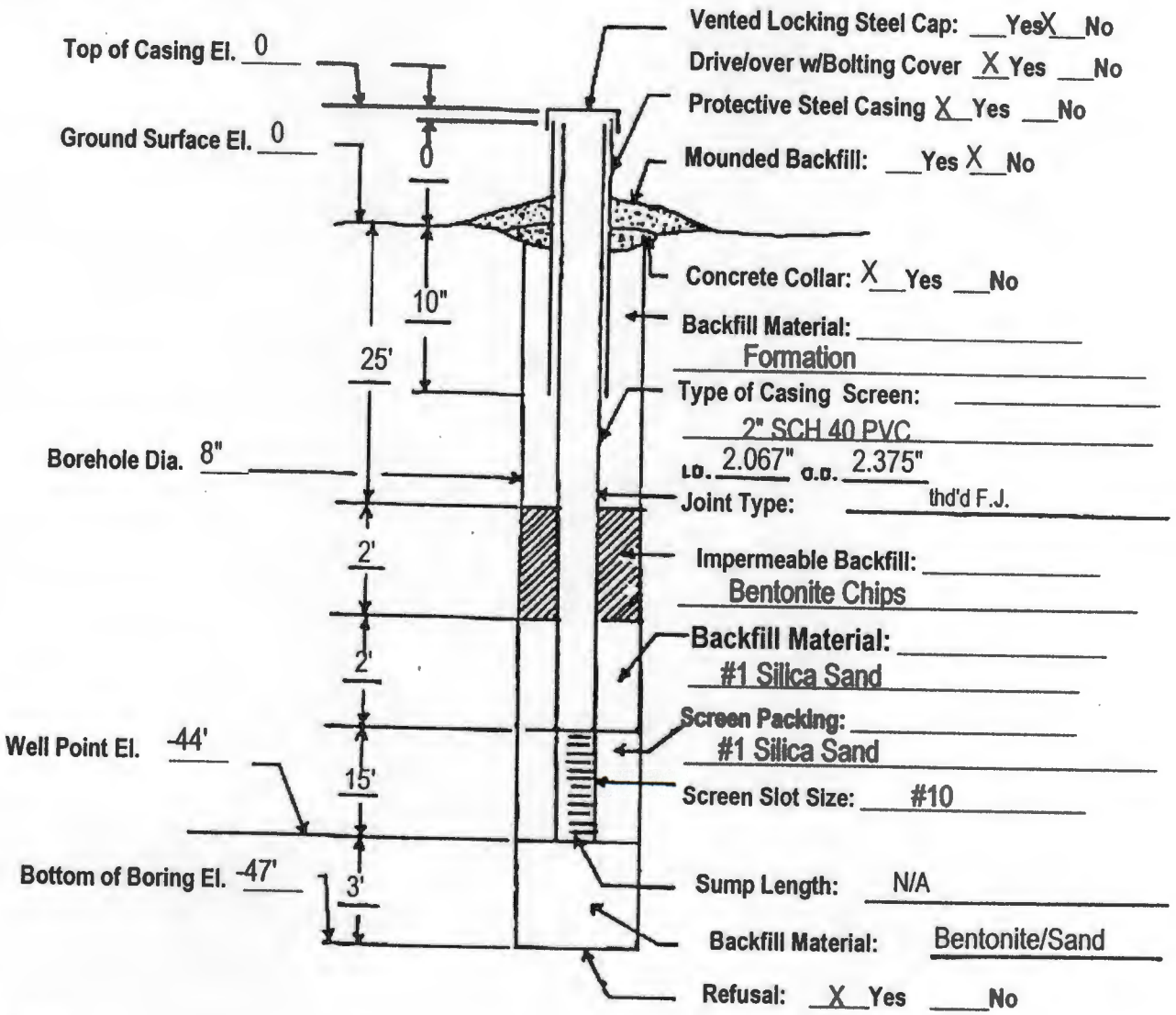
SOILTESTING, INC.

140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

Monitor Well # MW-9D

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	30'	Bentonite Chips	1 1/2 bags	Lock	
Plug (PVC)	(1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	600#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-10S **PAGE 1 OF 1 PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 5 ft bg to 20 ft bg
DATE COMPLETED: March 28, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	**SETTING:** 4 ft bg to 20.5 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 5 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 3 ft bg to 4 ft bg
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP:	**STATIC WATER LEVEL:** 16.63
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:** 1.6 gal
REMARKS: See geologic log of Monitor Well MW-10D for details of geology and photoionization detector measurements.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-10D **PAGE 1 OF 2 PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 23 ft bg to 38 ft bg
DATE COMPLETED: March 28, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	**SETTING:** 2 ft bg to 38 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 23 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 18 ft bg to 20 ft bg
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP:	**STATIC WATER LEVEL:** 17.81
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:** 10 gal
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	2	SS	4-15-27-27	1.4	0	SAND; fine, little-some silt, little clay, little-trace gravel; reddish brown
2	5	C	--	--	--	SAND; fine, little-some silt, little clay, little-trace gravel; reddish brown
5	7	SS	8-12-13-18	1.5	0	SAND; fine, little silt, little clay, little gravel, trace medium sand; compact, brown to reddish brown
7	10	C	--	--	--	SAND; fine, little silt, little clay, little gravel, trace medium sand; compact, brown to reddish brown
10	12	SS	28-60-50/2	1.3	0	SAND; fine, some silt, little clay, trace gravel; moist, compact; brown to reddish brown
12	15	C	--	--	--	SAND; fine, some silt, little clay, trace gravel; moist, compact; brown to reddish brown
15	17	SS	40-50-50-50/3	1.25	0	SAND; fine, some silt, little clay and gravel; compact; brown to reddish brown

OWNER: Sony Electronics, Inc.

WELL NO.: MW-10D **PAGE 2 OF 2 PAGES**

20	22	SS	25-47-41-19	1.75	0	SILT; some fine sand, little clay, trace gravel; brown ; moist compact
22	25	C	--	--	--	SILT; some fine sand, little clay, trace gravel; brown ; moist compact
25	27	SS	72-100/5	0.45	0	SAND; fine, little clay, little silt, some coarse gravel; very compact; brown
27	30	C	--	--	--	SAND; fine, little clay, little silt, some coarse gravel; very compact; brown
30	32	SS	38-34-31-50/5	1.6	0	SILT and SAND; fine, little clay, trace gravel; compact, moist; brown
32	35	C	--	--	--	SILT and SAND; fine, little clay, trace gravel; compact, moist; brown
35	37	SS	36-48-60-47	1.8	0	SAND; fine, some silt, little gravel, trace clay, trace medium sand; very compact; moist; brown
37	40	C	--	--	--	SAND; fine, some silt, little gravel, trace clay, trace medium sand; very compact; moist; brown
40	42	SS	48-36-48-35	1.75	0	Weathered bedrock, some clay, some silt, some fine sand, little gravel; very compact; reddish brown
42	45	C	--	--	--	Weathered bedrock, some clay, some silt, some fine sand, little gravel; very compact; reddish brown
45	47	SS	50-100/2	0.5	0	Weathered sandstone, clay and silt, some fine and medium sand; compact, wet; reddish brown

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

SOILTESTING, INC.

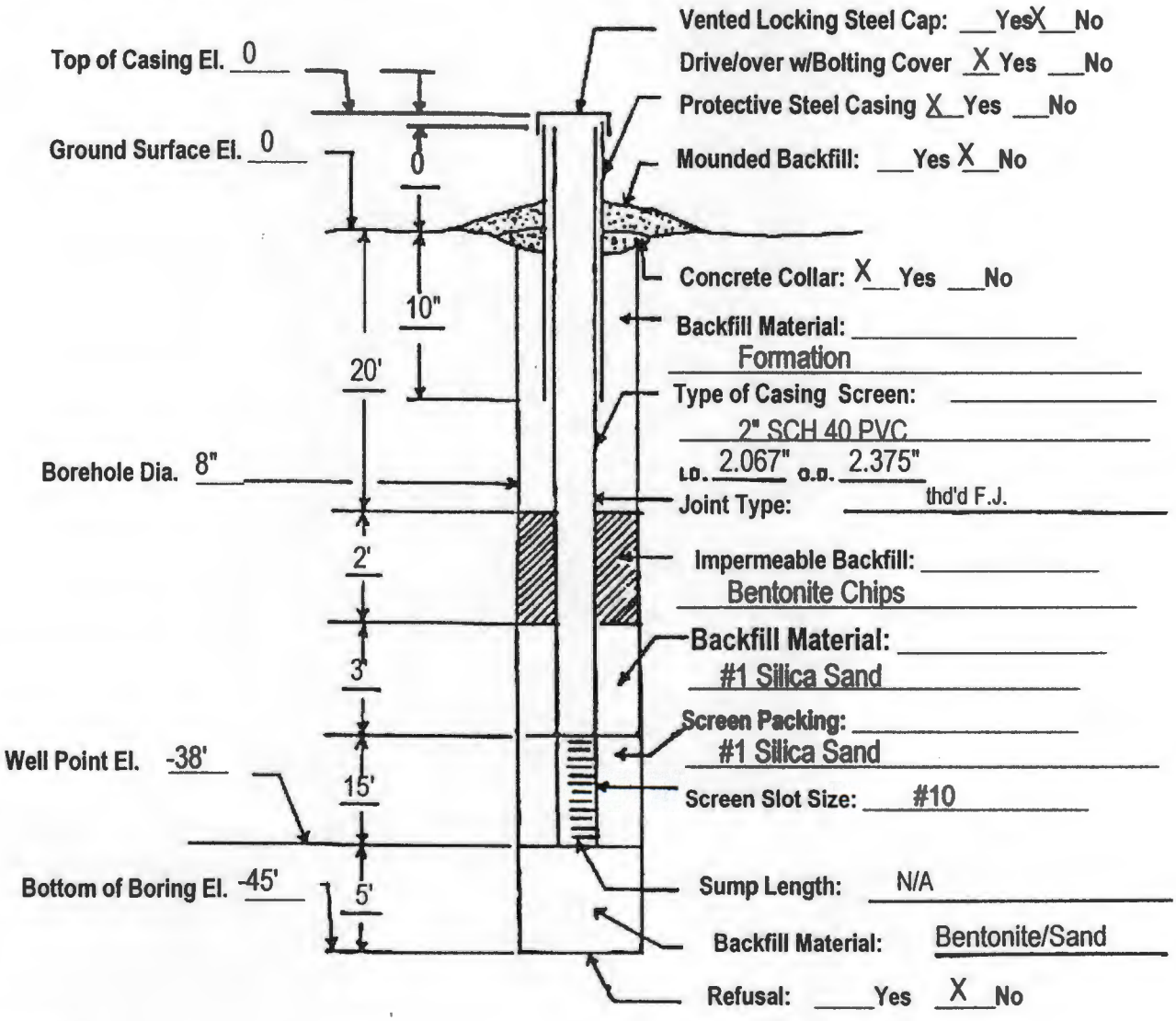
140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

CLIENT: Leggette Brashears & Graham

JOB# : E22-6426-02

Monitor Well # MW-10D



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	25'	Bentonite Chips	2 bags	Lock	
Plug (PVC)	(1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	600#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-11S **PAGE 1 OF 1 PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 20 ft bg to 5 ft bg
DATE COMPLETED: March 28, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	**SETTING:** 3.5 ft bg to 25 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 5 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 2 ft bg to 3.5 ft bg
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP:	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:**
REMARKS: See geologic log of Monitor Well MW-11D for details of geology and photoionization detector measurements.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-11D **PAGE** 1 **OF** 2 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 25 ft bg to 35 ft bg
DATE COMPLETED: March 28, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	**SETTING:** 22 ft bg to 35 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 25 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 20 ft bg to 22 ft bg
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP:	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:**
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	2	SS	6-8-10-28	1.75	0	SAND; fine, little silt, trace clay, little gravel, little organics; reddish brown; slightly moist.
2	5	C	--	--	--	SAND; fine, little silt, trace clay, little gravel, little organics; reddish brown; slightly moist.
5	7	SS	36-52-49-28	1.8	0	SAND; fine, little medium sand, trace clay, little gravel; compact; redish brown; damp.
7	10	C	--	--	--	SAND; fine, little medium sand, trace clay, little gravel; compact; redish brown; damp.
10	12	SS	10-100/4	1.00	0	SAND; fine, little silt, trace clay, trace gravel; compact, damp; brown to reddish brown.
12	15	C	--	--	--	SAND; fine, little silt, trace clay, trace gravel; compact, damp; brown to reddish brown.
15	17	SS	47-100/5	1.10	0	SAND; fine, some silt, little clay, little medium sand, trace gravel; compact; reddish gray brown.

OWNER: Sony Electronics, Inc.

WELL NO.: MW-11D **PAGE 2 OF 2 PAGES**

20	22	SS	36-75-100/2	1.20	0	SAND; fine, some little medium sand, little clay, little silt, trace gravel; compact, moist; grey reddish brown.
22	25	C	--	--	--	SAND; fine, some little medium sand, little clay, little silt, trace gravel; compact, moist; grey reddish brown.
25	27	SS	20-30-90/4	1.4	0	SAND; fine, some silt, little clay, trace medium sand, trace gravel; very compact; reddish brown.
27	30	C	--	--	--	SAND; fine, some silt, little clay, trace medium sand, trace gravel; very compact; reddish brown.
30	32	SS	100/1	0.4	0	SAND; medium, sandstone or boulder.
32	35	C	--	--	--	SAND; medium, sandstone or boulder.
35	37	SS	100/5	0.4	0	SAND; some clay and fine sand, sandstone fragments; very wet
37	40	C	--	--	--	SAND; some clay and fine sand, sandstone fragments; very wet
40	42	SS	100/3	0.1	0	Bedrock

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

SOILTESTING, INC.

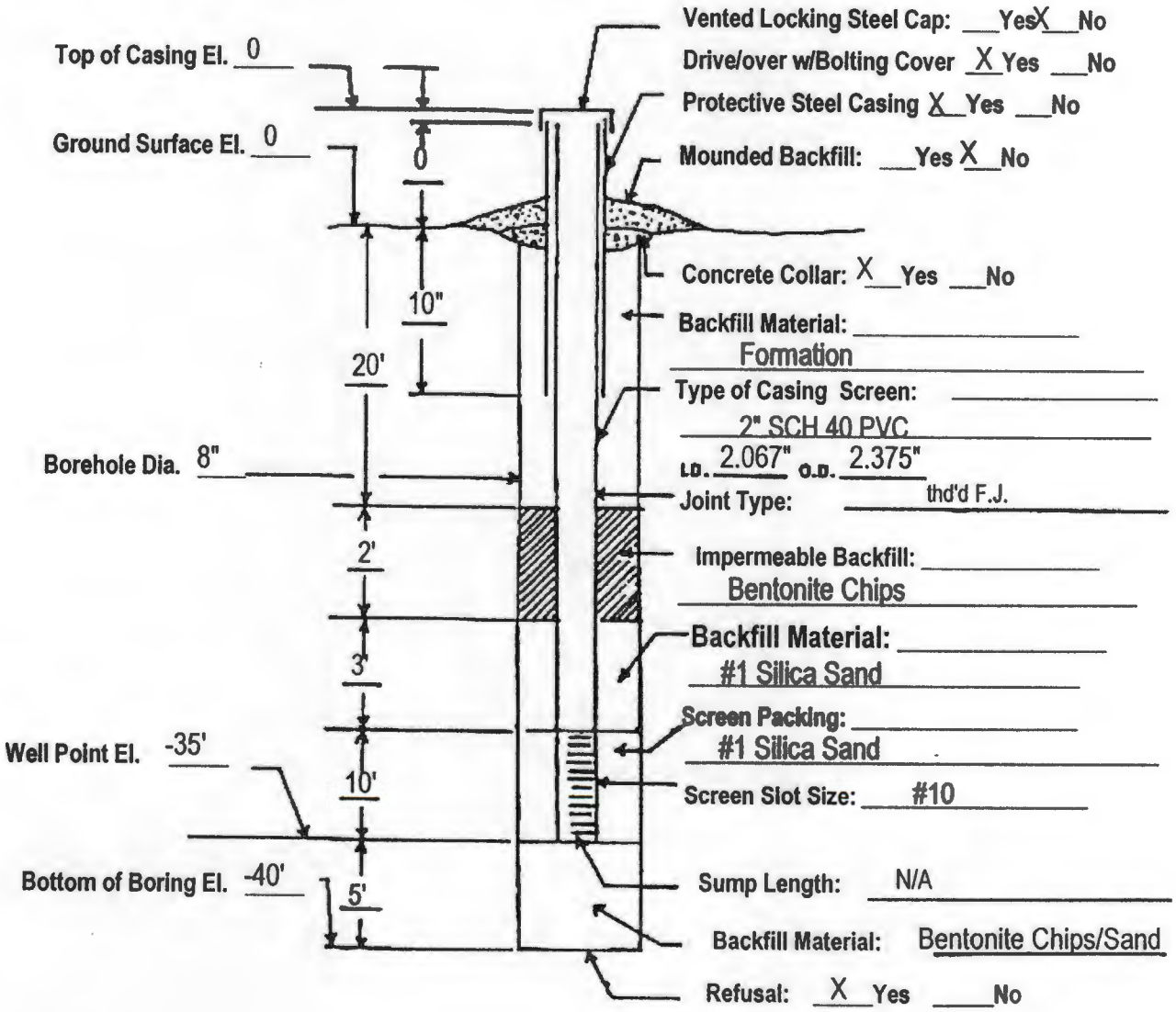
140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

CLIENT: Leggette Brashears & Graham

Monitor Well # MW-11D

JOB# : E22-6426-02



Materials Used:

Screen	(PVC) 10'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser	(PVC) 25'	Bentonite Chips	1 1/2 bags	Lock	
Plug	(PVC) (1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap	(PVC)	Portland		S/U	
Silica Sand	500#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-12 **PAGE** 1 **OF** 1 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 15 ft bg to 30 ft bg
DATE COMPLETED: March 26, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	**SETTING:** 13 ft bg to 30 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 15 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 13 ft bg to 11 ft bg
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP: --	**STATIC WATER LEVEL:** 20.11
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:** 4.5 gal
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	2	SS	2-3-6-4	1.5	0	SAND; fine, some silt, trace gravel; compact; reddish brown' slightly moist
3	5	C	--	--	--	SAND; fine, some silt, trace gravel; compact; reddish brown' slightly moist
5	7	SS	12-22-23-30	2.0	0	SILT; some fine sand, little clay, trace gravel; compact; reddish brown
7	10	C	--	--	--	SILT; some fine sand, little clay, trace gravel; compact; reddish brown
10	12	SS	20-9-13-19	1.25	0	SILT; some fine sand, little clay, trace gravel; compact; reddish brown
12	15	C	--	--	--	SILT; some fine sand, little clay, trace gravel; compact; reddish brown
15	17	SS	14-19-29-30	2.0	0	SILT; little fine sand, some clay, trace gravel; very compact; reddish brown
17	20	C	--	--	--	SILT; little fine sand, some clay, trace gravel; very compact; reddish brown
20	22	SS	24-40-60/5	1.20	0	SAND; fine, some silt, little clay, trace gravel; compact; reddish brown
22	25	C	--	--	--	SAND; fine, some silt, little clay, trace gravel; compact; reddish brown

OWNER: Sony Electronics, Inc.

WELL NO.: MW-12 **PAGE 2 OF 2 PAGES**

25	27	SS	50-60-100	1.20	0	SAND; fine, some silt, little clay; very compact
27	30	C	--	--	--	SAND; fine, some silt, little clay; very compact
30	32	SS	32-33-55-50/1	1.35	0	CLAY; little silt, little gravel; very compact; sandstone at bottom
32	34	C	--	--	--	CLAY; little silt, little gravel; very compact; sandstone at bottom
34						Bedrock - sandstone

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

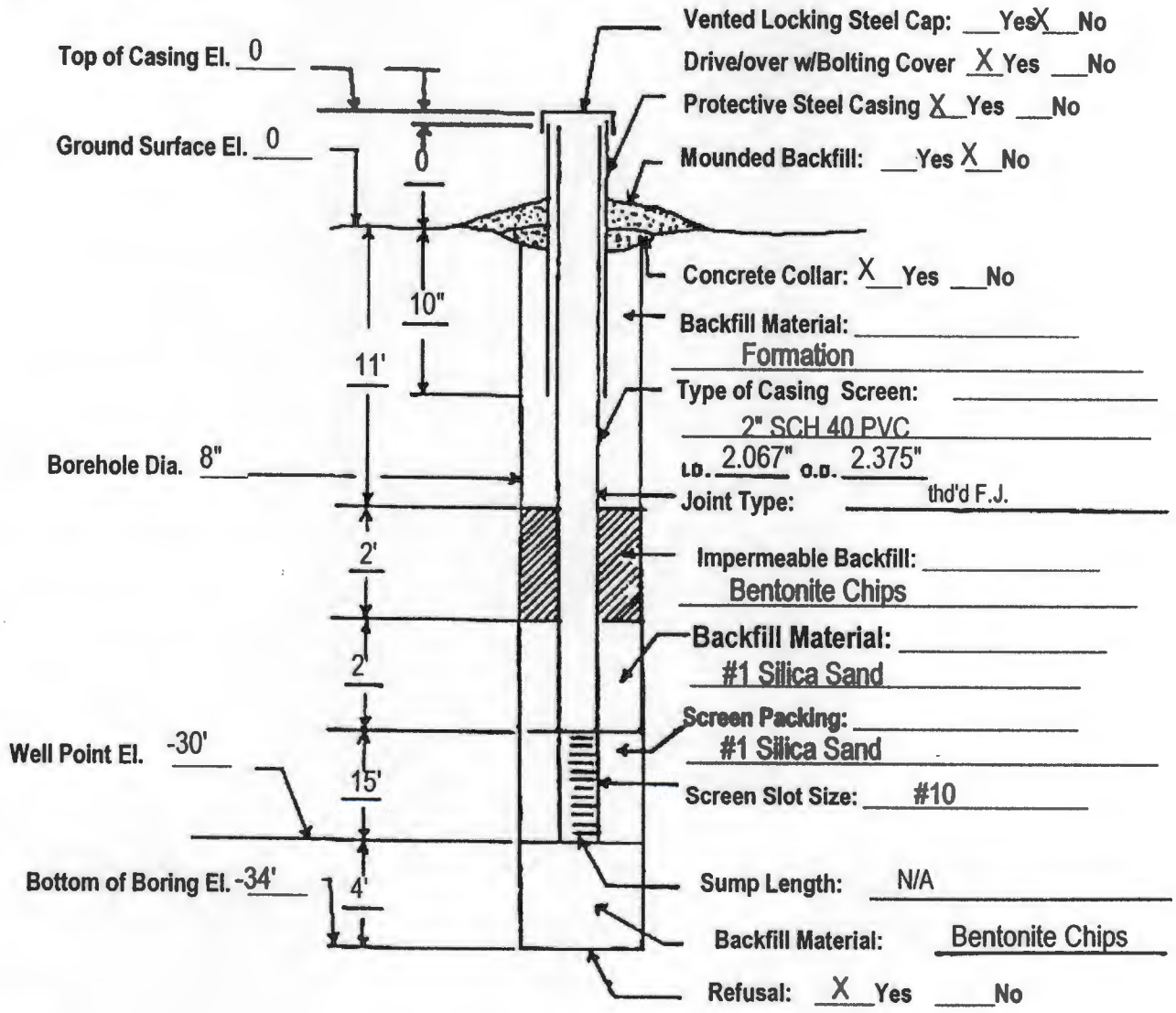
SOILTESTING, INC.

140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

Monitor Well # MW-12D

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02



Materials Used:

Screen	(PVC) 15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser	(PVC) 15'	Bentonite Chips	2 bags	Lock	
Plug	(PVC) (1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap	(PVC)	Portland		S/U	
Silica Sand	550#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO: MW-13 PAGE 1 OF 1 PAGES
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: 2" PVC SLOT NO.: 10 SETTING: 15 ft bg to 30 ft bg
DATE COMPLETED: March 27, 2002	SAND PACK SIZE & TYPE: FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	SETTING: 13 ft bg to 31 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	SETTING: 0 to 15 ft bg
SAMPLING METHOD: Split Spoon	SEAL TYPE: Bentonite
OBSERVER: Andrew Linton	SETTING: 13 ft bg to 11 ft bg
REFERENCE POINT (RP):	BACKFILL TYPE: Cuttings
ELEVATION OF RP: --	STATIC WATER LEVEL: 22.12
STICK-UP:	DEVELOPMENT METHOD: Bail Purge
SURFACE COMPLETION: Roadbox set in cement	DURATION: 3 well volumes YIELD: 4.0 gal
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	2	SS	13-16-17-32	1.0	0	Top soil organics, some fine sand, some gravel; moist; brown- reddish brown
2	5	C	--	--	--	Top soil organics, some fine sand, some gravel; moist; brown- reddish brown
5	7	SS	8-13-12-12	2.0	0	SAND; fine – medium, little silt, little – trace gravel; reddish brown
7	10	C	--	--	--	SAND; fine – medium, little silt, little – trace gravel; reddish brown
10	12	SS	38-56-50/4	2.0	0.2	SAND; fine, little medium sand and silt, trace clay and gravel; compact; reddish brown; moist
12	15	C	--	--	--	SAND; fine, little medium sand and silt, trace clay and gravel; compact; reddish brown; moist
15	17	SS	16-45-48-50/4	2.0	0.3	SAND; fine, some silt, trace medium sand, trace gravel; compact; moist; reddish brown
17	20	C	--	--	--	SAND; fine, some silt, trace medium sand, trace gravel; compact; moist; reddish brown

OWNER: Sony Electronics, Inc.

WELL NO.: MW-13 **PAGE 2 OF 2 PAGES**

20	22	SS	43-75-100/4	1.8	0.4	SAND; fine, some silt, trace clay, trace gravel; compact; reddish brown; moist
22	25	C	--	--	--	SAND; fine, some silt, trace clay, trace gravel; compact; reddish brown; moist
25	27	SS	57-78-100/4	1.20	0	SAND; fine, some silt, trace clay, trace gravel; compact; reddish brown; moist
27	30	C	--	--	--	SAND; fine, some silt, trace clay, trace gravel; compact; reddish brown; moist
30	32	SS	29-140-100/2	1.4	0	SAND; fine, silt, little clay and gravel; very compact; reddish brown, slightly moist
32	35	C	--	--	--	SAND; fine, silt, little clay and gravel; very compact; reddish brown, slightly moist
35	37	SS	100/1	0.25	0	Sandstone bedrock. Some clay; wet

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

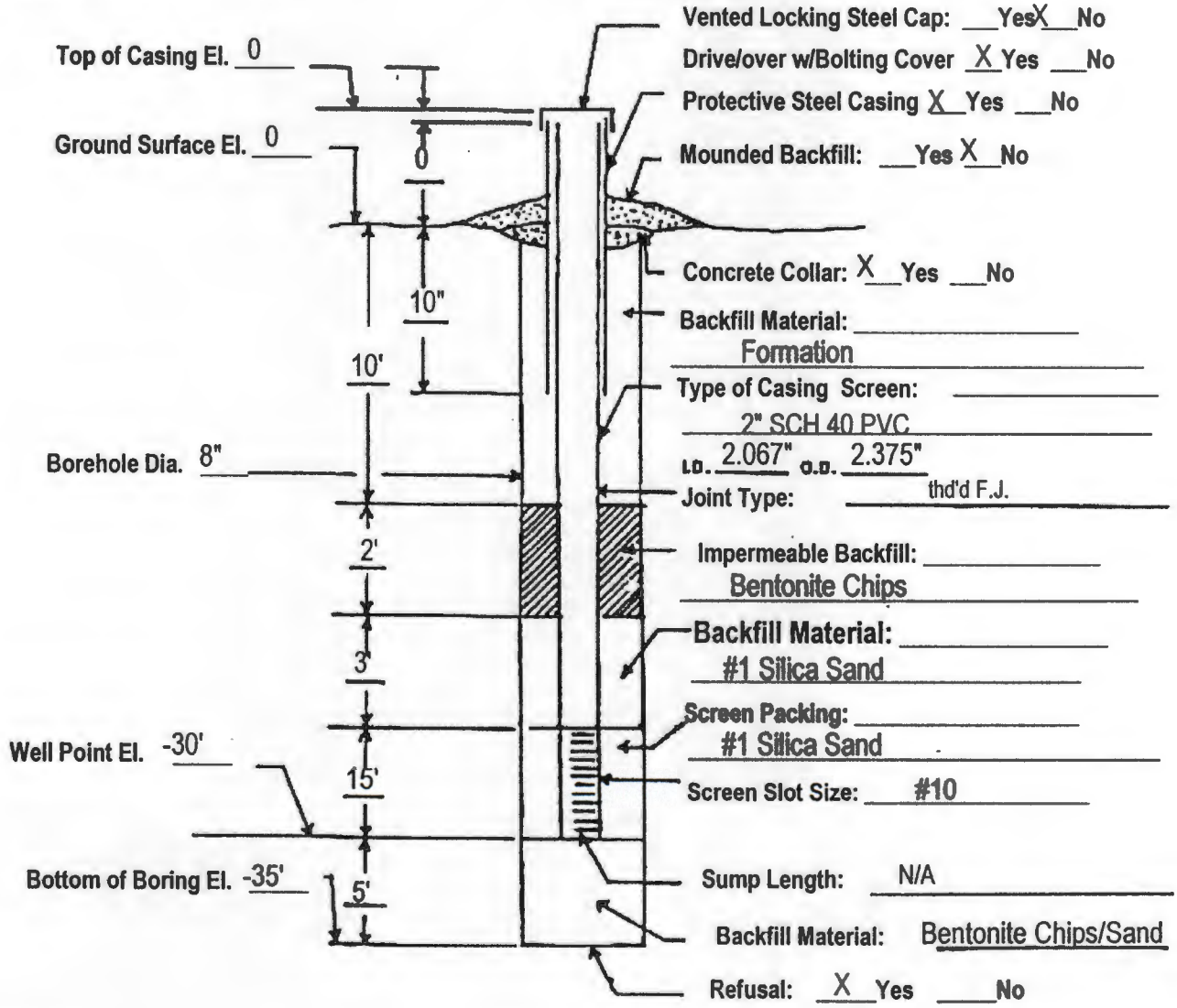
SOILTESTING, INC.

140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

Monitor Well # MW-13D

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	15'	Bentonite Chips	2 bags	Lock	
Plug (PVC)	(1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	550#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-14S **PAGE** 1 **OF** 1 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 4 ft bg to 19 ft bg
DATE COMPLETED: March 29, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00 **SETTING:** 2 ft bg to 19 ft bg
DRILLING COMPANY: Soil Testing Inc.	**CASING SIZE & TYPE:** 2" PVC **SETTING:** 0 to 4 ft bg
DRILLING METHOD: Hollow Stem Auger	
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite **SETTING:** 1 ft bg to 2 ft bg
OBSERVER: Andrew Linton	
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP: --	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:**
REMARKS: See geologic log of Monitor Well MW-14D for details of geology and photoionization detector measurements.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

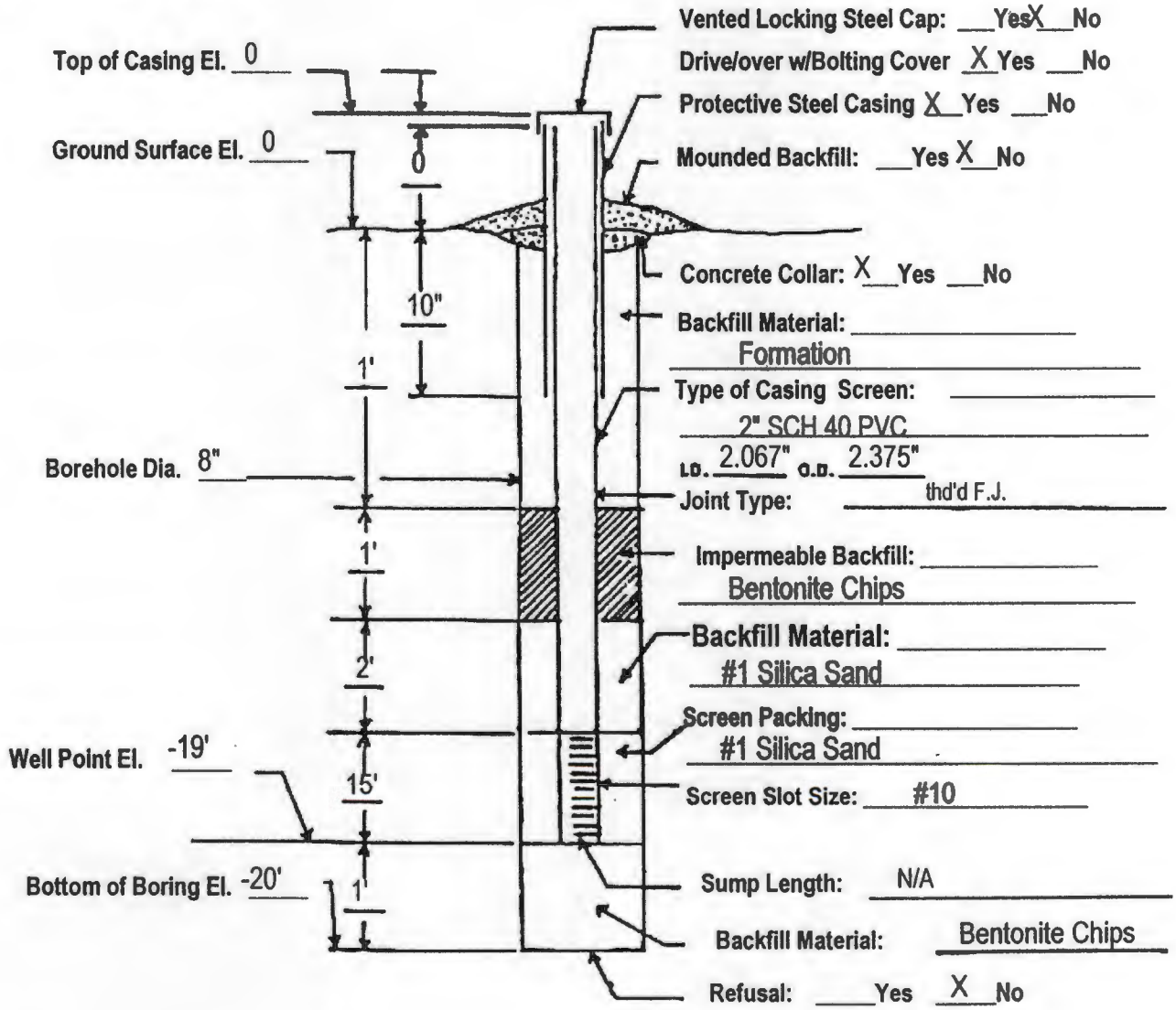
SOILTESTING, INC.

140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

CLIENT: Leggette Brashears & Graham
JOB# : E22-6426-02

Monitor Well # MW-14S



Materials Used:

Screen	(PVC)	15'	Bentonite Pellets		Locking Exp. Plug (1)
Riser	(PVC)	5'	Bentonite Chips	1½ bags	Lock
Plug	(PVC)	(1)	Concrete Mix	1 bag	D/O (1)
Slip Cap	(PVC)		Portland		S/U
Silica Sand		600#			
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** MW-14D **PAGE** 1 **OF** 2 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** 2" PVC **SLOT NO.:** 10 **SETTING:** 22 to 37 ft bg
DATE COMPLETED: March 29, 2002	**SAND PACK SIZE & TYPE:** FilterSil 00
DRILLING COMPANY: Soil Testing Inc.	**SETTING:** 20 to 37.5 ft bg
	CASING SIZE & TYPE: 2" PVC
DRILLING METHOD: Hollow Stem Auger	**SETTING:** 0 to 22 ft bg
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** Bentonite
OBSERVER: Andrew Linton	**SETTING:** 1 to 20 ft bg and 37.5 to 40.5 ft bg
REFERENCE POINT (RP):	**BACKFILL TYPE:** Cuttings
ELEVATION OF RP: --	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:** Bail Purge
SURFACE COMPLETION: Roadbox set in cement	**DURATION:** 3 well volumes **YIELD:**
REMARKS:	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	1	C	--	--	--	SAND; fine, little-some medium sand, little gravel, little silt, trace clay; brown to reddish brown; compact.
1	3	SS	12-24-28-30	1.2	0	SAND; fine, little-some medium sand, little gravel, little silt, trace clay; brown to reddish brown; compact.
3	5	C	--	--	--	SAND; fine, little-some medium sand, little gravel, little silt, trace clay; brown to reddish brown; compact.
5	7	SS	24-47-50-31	1.25	0	SAND; fine to medium, little silt, little gravel, trace clay; compact; brown.
7	10	C	--	--	--	SAND; fine to medium, little silt, little gravel, trace clay; compact; brown.
10	12	SS	51-50-50/2	1.40	0	SAND; fine, some silt, little medium sand, little gravel, trace clay; brown; compact.
12	15	C	--	--	--	SAND; fine, some silt, little medium sand, little gravel, trace clay; brown; compact.

OWNER: Sony Electronics, Inc.

WELL NO.: MW-14D

15	17	SS	46-75-50/2	1.3	0	SAND; fine, little silt, little clay, trace gravel; brown; slightly moist; compact.
17	20	C	--	--	--	SAND; fine, little silt, little clay, trace gravel; brown; slightly moist; compact.
20	22	SS	100/5	0.7	0	SAND; fine, little silt, little gravel, trace clay; compact; brown.
22	25	C	--	--	--	SAND; fine, little silt, little gravel, trace clay; compact; brown.
25	27	SS	75-93-50/1	0.95	0	SAND; fine, little silt, little clay, little gravel; very compact; reddish brown.
27	30	C	--	--	--	SAND; fine, little silt, little clay, little gravel; very compact; reddish brown.
30	32	SS	100/5	0.75	0	SAND; fine, little silt, little clay, little gravel; very compact; reddish brown.
32	35	C	--	--	--	SAND; fine, little silt, little clay, little gravel; very compact; reddish brown.
35	37	SS	120/5	0.5	0	SAND, fine, some silt, little medium sand, trace clay, little gravel; very compact, brown.
37	40	C	--	--	--	SAND, fine, some silt, little medium sand, trace clay, little gravel; very compact, brown.
40	40.5	SS	265/5	0.35	0	Sandstone bedrock, some silt and clay; very compact; very wet.

Phone
(203) - 888-4531

Telefax
(203) - 888-6247

WHITE PLAINS, N.Y.
(914) - 946-4850

MONITOR WELL INSTALLATION DETAIL

SOILTESTING, INC.

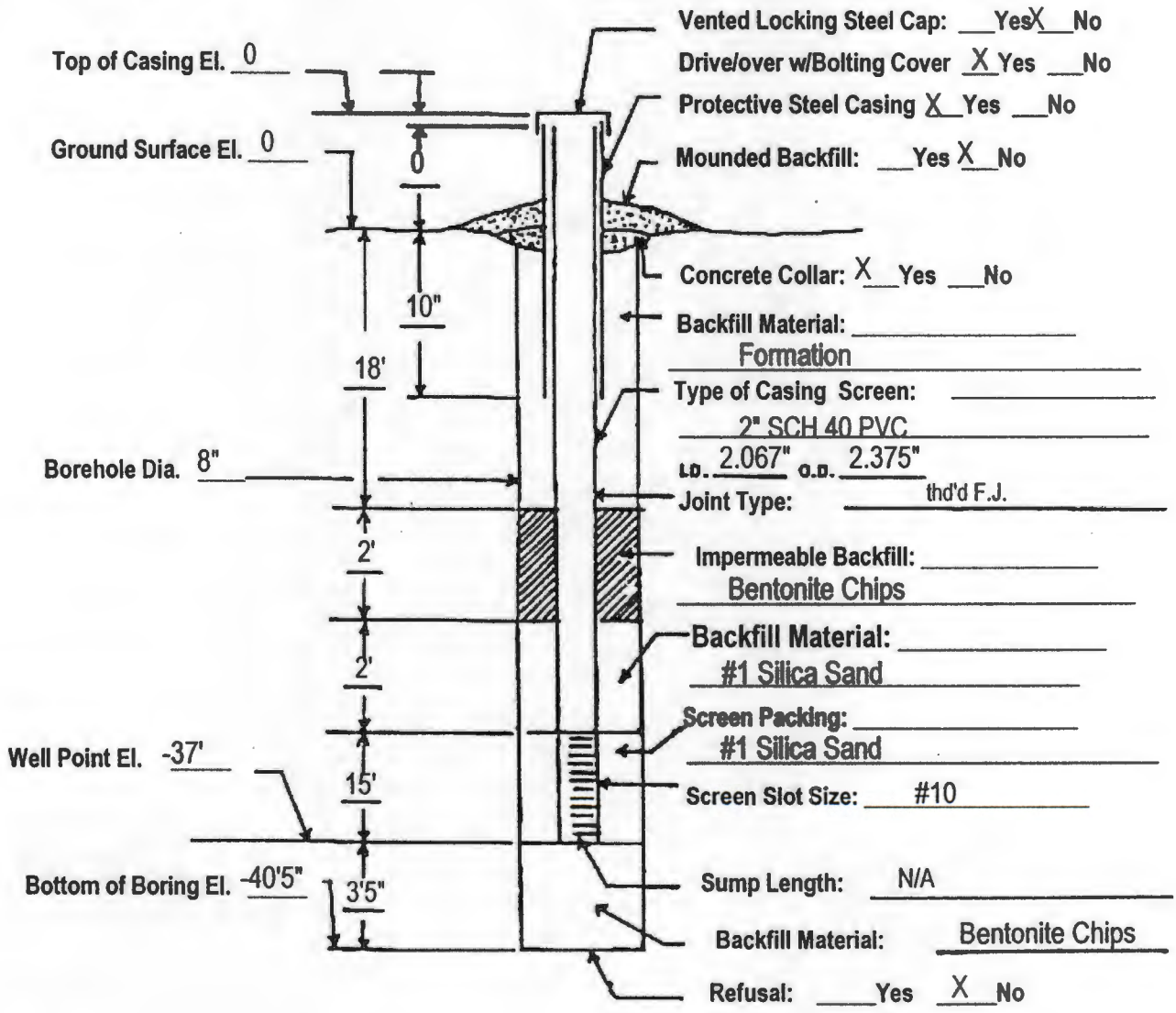
140 OXFORD ROAD - OXFORD, CONN. 06478-1943

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling

CLIENT: Leggette Brashears & Graham

JOB# : E22-6426-02

Monitor Well # MW-14D



Materials Used:

Screen (PVC)	15'	Bentonite Pellets		Locking Exp. Plug	(1)
Riser (PVC)	22'6"	Bentonite Chips	2 bags	Lock	
Plug (PVC)	(1)	Concrete Mix	1 bag	D/O	(1)
Slip Cap (PVC)		Portland		S/U	
Silica Sand	600#				
Powdered Bentonite					

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: H-1 PAGE: 1 OF 1 PAGE
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO.: SETTING:
DATE COMPLETED: July 9, 1999	SAND PACK SIZE & TYPE: SETTING:
DRILLING COMPANY: NA	CASING SIZE & TYPE: SETTING:
DRILLING METHOD: Hand Auger	
SAMPLING METHOD: Grab	SEAL TYPE: SETTING:
OBSERVER: Michael Manolakas	
REFERENCE POINT (RP): Grade	BACKFILL TYPE:
ELEVATION OF RP: NA	STATIC WATER LEVEL:
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION:	DURATION: YIELD:
REMARKS: Hand Auger Point on northern side of building, near location of replaced corroded piping.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million	

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
0	0.25	C				GRAVEL, coarse; loose; grey; dry.
0.25	1.5	C			0	SAND, fine; some silt; little medium sand; little coarse gravel; compact; reddish brown; dry.
1.5	4.5	C			0	SAND, fine; some silt; little medium sand; little coarse gravel; compact; reddish brown; damp.
	4.5					End of boring.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO.: H-2 PAGE: 1 OF 1 PAGE
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO.: SETTING:
DATE COMPLETED: July 9, 1999	SAND PACK SIZE & TYPE: SETTING:
DRILLING COMPANY: NA	CASING SIZE & TYPE: SETTING:
DRILLING METHOD: Hand Auger	
SAMPLING METHOD: Grab	SEAL TYPE: SETTING:
OBSERVER: Michael Manolakas	
REFERENCE POINT (RP): Grade	BACKFILL TYPE:
ELEVATION OF RP: NA	STATIC WATER LEVEL:
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION:	DURATION: YIELD:
REMARKS: Hand Auger Point on northern side of building, near location of replaced corroded piping.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	0.25	C				GRAVEL, coarse; loose; grey; dry.
0.25	2	C			0	SAND, fine; some silt; little medium sand; little coarse gravel; compact; reddish brown; dry.
2	4.5	C			0	SAND, fine; some silt; little medium sand; little coarse gravel; compact; reddish brown; damp.
	4.5					End of boring.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** B-1 **PAGE** 1 **OF** 1 **PAGES**

SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** **SLOT NO.:** **SETTING:**
DATE COMPLETED: 10/30/01	**SAND PACK SIZE & TYPE:**
DRILLING COMPANY: Zebra Environmental	**SETTING:**
	CASING SIZE & TYPE:
DRILLING METHOD: Geoprobe	**SETTING:**
SAMPLING METHOD: Split Spoon	**SEAL TYPE:**
OBSERVER: Andrew Linton	**SETTING:**
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:**
ELEVATION OF RP: --	**STATIC WATER LEVEL:** 17.3 feet
STICK-UP:	**DEVELOPMENT METHOD:**
SURFACE COMPLETION:	**DURATION:** **YIELD:**
REMARKS: Two attempts were made to probe to 40 ft., one refusal occurred at 27 ft., and the second rejection at 37 ft.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million MC = Macrocore**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC		2.0	0	SILT; some fine. sand; little-trace small gravel; trace clay. Compact; reddish-brown; damp.
19	21	MC		1.75	0	SILT; some-little clay; little-trace small gravel. Compact; reddish-brown; wet.
29	31	MC		2.0	0	CLAY; little silt; little small and medium gravel. Brown; very compact; wet.
	37					Refusal.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO: B-2 PAGE 1 OF PAGES
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO.: SETTING:
DATE COMPLETED: 10/30/01	SAND PACK SIZE & TYPE: SETTING:
DRILLING COMPANY: Zebra Environmental	CASING SIZE & TYPE: SETTING:
DRILLING METHOD: Geoprobe	
SAMPLING METHOD: Split Spoon	SEAL TYPE: SETTING:
OBSERVER: Andrew Linton	
REFERENCE POINT (RP): Grade	BACKFILL TYPE:
ELEVATION OF RP: --	STATIC WATER LEVEL: 18.0
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION:	DURATION: YIELD:
REMARKS: Six attempts were made to probe to the desired 40 ft. depth, refusal occurred at 26.5 ft.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million MC = Macrocore	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC		1.55	0	SILT; some fine, sand; little-trace clay. Compact; reddish brown; damp.
19	21	MC		1.30	0	CLAY; little silt; little small gravel. Reddish brown-gray; wet.
	26.5					Refusal.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO: B-3 PAGE 1 OF PAGES
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO.: SETTING:
DATE COMPLETED: 10/31/01	SAND PACK SIZE & TYPE:
DRILLING COMPANY: Zebra Environmental	SETTING:
	CASING SIZE & TYPE:
DRILLING METHOD: Geoprobe	SETTING:
SAMPLING METHOD: Split Spoon	SEAL TYPE:
OBSERVER: Andrew Linton	SETTING:
REFERENCE POINT (RP): Grade	BACKFILL TYPE:
ELEVATION OF RP: --	STATIC WATER LEVEL: 18.0 feet
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION:	DURATION: YIELD:
REMARKS: Two attempts were made to probe to 40 feet.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million MC = Macrocore	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC		1.40	0	SILT; some fine. sand; little small gravel; trace clay; trace medium sand; trace medium gravel. Compact; brown; damp.
19	21	MC		1.10	0	CLAY; some silt; some small gravel. Compact; wet; brown.
29	31	MC		1.00	0	CLAY; little silt; little small gravel. Compact; wet; brown.
38	40	MC		1.10	0	CLAY; little silt; little-some small gravel. Very compact; wet; brown.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** B-6 **PAGE** 1 **OF** 1 **PAGES**

SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** **SLOT NO.:** **SETTING:**
DATE COMPLETED: 11/7/01	**SAND PACK SIZE & TYPE:**
DRILLING COMPANY: Zebra Environmental	**SETTING:**
	CASING SIZE & TYPE:
DRILLING METHOD: Geoprobe	**SETTING:**
SAMPLING METHOD: Split Spoon	**SEAL TYPE:**
OBSERVER: Andrew Linton	**SETTING:**
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:**
ELEVATION OF RP: --	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:**
SURFACE COMPLETION:	**DURATION:** **YIELD:**

REMARKS: Three attempts were made to probe to a depth of 40 feet. Refusal occurred at 17 feet.

ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube
REC = Recovery PPM = parts per million MC = Macrocore

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC		1.70	0	SAND; fine; little silt; little small gravel; trace clay; trace medium gravel. Reddish-brown; dry; compact.
	17					Refusal.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** B-7 **PAGE** 1 **OF** 1 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** **SLOT NO.:** **SETTING:**
DATE COMPLETED: 11/2/01	**SAND PACK SIZE & TYPE:**
DRILLING COMPANY: Zebra Environmental	**SETTING:**
	CASING SIZE & TYPE:
DRILLING METHOD: Geoprobe	**SETTING:**
SAMPLING METHOD: Split Spoon	**SEAL TYPE:**
OBSERVER: Andrew Linton	**SETTING:**
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:**
ELEVATION OF RP: --	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:**
SURFACE COMPLETION:	**DURATION:** **YIELD:**
REMARKS: Five attempts were made to probe to 40 feet. Refusal occurred at 20 feet, a water sample was obtained at that depth, however a soil sample was not obtained because the LB could not reach that depth due to the tightness of the material.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million MC = Macrocore**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC		1.20	0	SAND; fine. Some silt; little clay; little small gravel. Damp; compact; brown.
	20					Refusal. (A water sample was obtained from 20 feet, however a soil sample was not obtained due to the nature of the material)

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO: B-8 PAGE 1 OF 1 PAGES
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO.: SETTING:
DATE COMPLETED: 11/1/01	SAND PACK SIZE & TYPE: SETTING:
DRILLING COMPANY: Zebra Environmental	CASING SIZE & TYPE: SETTING:
DRILLING METHOD: Geoprobe	
SAMPLING METHOD: Split Spoon	SEAL TYPE: SETTING:
OBSERVER: Andrew Linton	
REFERENCE POINT (RP): Grade	BACKFILL TYPE:
ELEVATION OF RP: --	STATIC WATER LEVEL:
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION:	DURATION: YIELD:
REMARKS: Six attempts were made to probe to 40 feet, but refusal was encountered at 20 feet. Broke two soil samplers (LB's) on this location.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million MC = Macrocore	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC		1.20	0	SILT; some clay; trace small gravel. Dry; brown; slightly compact.
19	21	MC			0	SILT; some clay; little small gravel. Wet; brown/red; very compact.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** B-9 **PAGE** 1 **OF** 1 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** **SLOT NO.:** **SETTING:**
DATE COMPLETED: 11/8/01	**SAND PACK SIZE & TYPE:**
DRILLING COMPANY: Zebra Environmental	**SETTING:**
	CASING SIZE & TYPE:
DRILLING METHOD: Geoprobe	**SETTING:**
SAMPLING METHOD: Split Spoon	**SEAL TYPE:**
OBSERVER: Andrew Linton	**SETTING:**
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:**
ELEVATION OF RP: --	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:**
SURFACE COMPLETION:	**DURATION:** **YIELD:**
REMARKS: Seven attempts were made to probe to a depth of 40 feet. Refusal occurred at 19 feet.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million MC = Macrocore**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC		2.0	0	SILT; little clay; little small gravel. Reddish-brown; compact; dry.
	18					Refusal.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** B-13 **PAGE** 1 **OF** 1 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** **SLOT NO.:** **SETTING:**
DATE COMPLETED: 11/9/01	**SAND PACK SIZE & TYPE:**
DRILLING COMPANY: Zebra Environmental	**SETTING:**
	CASING SIZE & TYPE:
DRILLING METHOD: Geoprobe	**SETTING:**
SAMPLING METHOD: Split Spoon	**SEAL TYPE:**
OBSERVER: Andrew Linton	**SETTING:**
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:**
ELEVATION OF RP: --	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:**
SURFACE COMPLETION:	**DURATION:** **YIELD:**
REMARKS: Three attempts were made to probe to a depth of 40 feet. Refusal occurred at 23 feet.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million MC = Macrocore	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC		1.60	0	SILT; little-some clay; little-trace small gravel. Reddish-brown; compact; dry.
19	21	MC		1.55	0	SILT; some-little clay; trace small gravel. Reddish-brown; compact; wet.
	23					Refusal.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** B-14 **PAGE** 1 **OF** 1 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** **SLOT NO.:** **SETTING:**
DATE COMPLETED: 11/6/01	**SAND PACK SIZE & TYPE:**
DRILLING COMPANY: Zebra Environmental	**SETTING:**
	CASING SIZE & TYPE:
DRILLING METHOD: Geoprobe	**SETTING:**
SAMPLING METHOD: Split Spoon	**SEAL TYPE:**
OBSERVER: Andrew Linton	**SETTING:**
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:**
ELEVATION OF RP: --	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:**
SURFACE COMPLETION:	**DURATION:** **YIELD:**
REMARKS: Four attempts were made to probe to 40 feet. Refusal was encountered at 24 feet.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube **REC = Recovery PPM = parts per million MC = Macrocore**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC			0	SILT; little fine sand; little clay; trace small gravel. Reddish brown; slightly compact; damp.
19	21	MC			0	SILT; some clay; some-little small gravel. Reddish/brown; compact; wet.
	24					Refusal. (No water was encountered in this location)

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	**OWNER:** Sony Electronics, Inc. **WELL NO:** B-15 **PAGE** 1 **OF** 1 **PAGES**
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	**SCREEN SIZE & TYPE:** **SLOT NO.:** **SETTING:**
DATE COMPLETED: 11/5/01	**SAND PACK SIZE & TYPE:**
DRILLING COMPANY: Zebra Environmental	**SETTING:**
	CASING SIZE & TYPE:
DRILLING METHOD: Geoprobe	**SETTING:**
SAMPLING METHOD: Split Spoon	**SEAL TYPE:**
OBSERVER: Andrew Linton	**SETTING:**
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:**
ELEVATION OF RP: --	**STATIC WATER LEVEL:**
STICK-UP:	**DEVELOPMENT METHOD:**
SURFACE COMPLETION:	**DURATION:** **YIELD:**
REMARKS: Three attempts were made to probe to 40 feet. Refusal occurred at 28 feet.	
ABBREVIATIONS: **SS = split spoon W = wash C = cuttings G = grab ST = shelby tube** **REC = Recovery PPM = parts per million MC = Macrocore**	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC		1.00	0	SAND; fine; some silt; little-trace clay; little small gravel. Brown; damp.
19	21	MC		1.10	0	SILT; little clay; little small gravel. Reddish-brown; compact; damp.
26	28	MC			0	SAND; fine; some silt; trace small gravel. Wet; brown; compact.
	28					Refusal.

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. TRUMBULL, CONNECTICUT	OWNER: Sony Electronics, Inc. WELL NO: B-16 PAGE 1 OF 1 PAGES
SITE LOCATION: Materials Research Corporation 542 Route 303 Orangetown, New York	SCREEN SIZE & TYPE: SLOT NO.: SETTING:
DATE COMPLETED: 11/6/01	SAND PACK SIZE & TYPE: SETTING:
DRILLING COMPANY: Zebra Environmental	CASING SIZE & TYPE: SETTING:
DRILLING METHOD: Geoprobe	
SAMPLING METHOD: Split Spoon	SEAL TYPE: SETTING:
OBSERVER: Andrew Linton	
REFERENCE POINT (RP): Grade	BACKFILL TYPE:
ELEVATION OF RP: --	STATIC WATER LEVEL:
STICK-UP:	DEVELOPMENT METHOD:
SURFACE COMPLETION:	DURATION: YIELD:
REMARKS: Refusal was encountered at 22 feet on a very hard surface.	
ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = Recovery PPM = parts per million MC = Macrocore	

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
9	11	MC			0	SILT; some-little clay; little-trace fine sand; trace small gravel. Damp; reddish-brown.
19	21	MC			0	SILT; some clay; little small gravel; trace medium gravel. Compact; wet; reddish-brown.
	22					Refusal.

APPENDIX II
LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS FOR SOIL AND GEOPROBE WATER SAMPLES

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Report Date: 11/9/2001
Re: Client Project ID: Sony
York Project No.: 01110022

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

000001

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 11/9/2001
Client Project ID: Sony
York Project No.: 01110022

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 10/31/01. The project was identifed as your project "Sony ".

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

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

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

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

Analysis Results

Client Sample ID			B-1-10-S		B-1-20-S	
York Sample ID			01110022-01		01110022-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0

Client Sample ID			B-1-10-S		B-1-20-S	
York Sample ID			01110022-01		01110022-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			4 J	5.0	3 J	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			B-1-30-S		B-2-10-S	
York Sample ID			01110022-03		01110022-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50

Client Sample ID			B-1-30-S		B-2-10-S	
York Sample ID			01110022-03		01110022-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			3 J	5.0	4 J	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			B-2-20-S		B-3-10-S	
York Sample ID			01110022-05		01110022-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0

Client Sample ID			B-2-20-S		B-3-10-S	
York Sample ID			01110022-05		01110022-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			3 J	5.0	3 J	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			B-3-20-S		B-3-30-S	
York Sample ID			01110022-07		01110022-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	5.0
1,1,1-Trichloroethane			Not detected	1	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	5.0
1,1,2-Trichloroethane			Not detected	1	Not detected	5.0
1,1-Dichloroethane			Not detected	1	Not detected	5.0
1,1-Dichloroethylene			Not detected	1	Not detected	5.0
1,2-Dichlorobenzene			Not detected	1	Not detected	5.0
1,2-Dichloroethane			Not detected	1	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	5.0
1,2-Dichloropropane			Not detected	1	Not detected	5.0
1,3-Dichlorobenzene			Not detected	1	Not detected	5.0
1,4-Dichlorobenzene			Not detected	1	Not detected	5.0
1-Chlorohexane			Not detected	1	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	1	Not detected	5.0
2-Chlorotoluene			Not detected	1	Not detected	5.0
4-Chlorotoluene			Not detected	1	Not detected	5.0
Benzyl chloride			Not detected	10	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	50
Bromobenzene			Not detected	1	Not detected	5.0
Bromodichloromethane			Not detected	1	Not detected	5.0
Bromoform			Not detected	1	Not detected	5.0

Client Sample ID			B-3-20-S		B-3-30-S	
York Sample ID			01110022-07		01110022-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromomethane			Not detected	10	Not detected	50
Carbon tetrachloride			Not detected	1	Not detected	5.0
Chloroacetaldehyde			Not detected	10	Not detected	50
Chlorobenzene			Not detected	1	Not detected	5.0
Chloroethane			Not detected	10	Not detected	50
Chloroform			Not detected	1	Not detected	5.0
Chloromethane			Not detected	10	Not detected	50
Chloromethyl methyl ether			Not detected	1	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	1	Not detected	5.0
Dibromochloromethane			Not detected	1	Not detected	5.0
Dibromomethane			Not detected	1	Not detected	5.0
Dichlorodifluoromethane			Not detected	1	Not detected	5.0
Methylene chloride			Not detected	1	Not detected	5.0
Tetrachloroethylene			3 J	1	3 J	5.0
trans-1,3-Dichloropropylene			Not detected	1	Not detected	5.0
Trichloroethylene			Not detected	1	Not detected	5.0
Trichlorofluoromethane			Not detected	1	Not detected	5.0
Trichloropropane			Not detected	1	Not detected	5.0
Vinyl chloride			Not detected	10	Not detected	50

Client Sample ID			B-3-40-S		B-8-10-S	
York Sample ID			01110022-09		01110022-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	1
1,1,1-Trichloroethane			Not detected	5.0	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	1
1,1,2-Trichloroethane			Not detected	5.0	Not detected	1
1,1-Dichloroethane			Not detected	5.0	Not detected	1
1,1-Dichloroethylene			Not detected	5.0	Not detected	1
1,2-Dichlorobenzene			Not detected	5.0	Not detected	1
1,2-Dichloroethane			Not detected	5.0	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	1
1,2-Dichloropropane			Not detected	5.0	Not detected	1
1,3-Dichlorobenzene			Not detected	5.0	Not detected	1
1,4-Dichlorobenzene			Not detected	5.0	Not detected	1
1-Chlorohexane			Not detected	5.0	Not detected	1
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	1
2-Chlorotoluene			Not detected	5.0	Not detected	1
4-Chlorotoluene			Not detected	5.0	Not detected	1
Benzyl chloride			Not detected	50	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	10
Bromobenzene			Not detected	5.0	Not detected	1
Bromodichloromethane			Not detected	5.0	Not detected	1
Bromoform			Not detected	5.0	Not detected	1
Bromomethane			Not detected	50	Not detected	10
Carbon tetrachloride			Not detected	5.0	Not detected	1

Client Sample ID			B-3-40-S		B-8-10-S	
York Sample ID			01110022-09		01110022-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloroacetaldehyde			Not detected	50	Not detected	10
Chlorobenzene			Not detected	5.0	Not detected	1
Chloroethane			Not detected	50	Not detected	10
Chloroform			Not detected	5.0	Not detected	1
Chloromethane			Not detected	50	Not detected	10
Chloromethyl methyl ether			Not detected	5.0	Not detected	1
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	1
Dibromochloromethane			Not detected	5.0	Not detected	1
Dibromomethane			Not detected	5.0	Not detected	1
Dichlorodifluoromethane			Not detected	5.0	Not detected	1
Methylene chloride			Not detected	5.0	Not detected	1
Tetrachloroethylene			3 J	5.0	3 J	1
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	1
Trichloroethylene			3 J	5.0	22	1
Trichlorofluoromethane			Not detected	5.0	Not detected	1
Trichloropropane			Not detected	5.0	Not detected	1
Vinyl chloride			Not detected	50	Not detected	10

Client Sample ID			B-1-20		B-1-30	
York Sample ID			01110022-11		01110022-12	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1

Client Sample ID			B-1-20		B-1-30	
York Sample ID			01110022-11		01110022-12	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

Client Sample ID			B-2-20		B-3-20	
York Sample ID			01110022-13		01110022-14	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10

Client Sample ID			B-2-20		B-3-20	
York Sample ID			01110022-13		01110022-14	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

Client Sample ID			B-3-30		B-3-40	
York Sample ID			01110022-15		01110022-16	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	2.0	Not detected	2.0
1,1,1-Trichloroethane			Not detected	2.0	Not detected	2.0
1,1,2,2-Tetrachloroethane			Not detected	2.0	Not detected	2.0
1,1,2-Trichloroethane			Not detected	2.0	Not detected	2.0
1,1-Dichloroethane			Not detected	2.0	Not detected	2.0
1,1-Dichloroethylene			Not detected	2.0	Not detected	2.0
1,2-Dichlorobenzene			Not detected	2.0	Not detected	2.0
1,2-Dichloroethane			Not detected	2.0	Not detected	2.0
1,2-Dichloroethylene (Total)			Not detected	2.0	Not detected	2.0
1,2-Dichloropropane			Not detected	2.0	Not detected	2.0
1,3-Dichlorobenzene			Not detected	2.0	Not detected	2.0
1,4-Dichlorobenzene			Not detected	2.0	Not detected	2.0
1-Chlorohexane			Not detected	2.0	Not detected	2.0
2-Chloroethylvinyl ether			Not detected	2.0	Not detected	2.0
2-Chlorotoluene			Not detected	2.0	Not detected	2.0
4-Chlorotoluene			Not detected	2.0	Not detected	2.0
Benzyl chloride			Not detected	20	Not detected	20
Bis(2-chloroethoxy)methane			Not detected	20	Not detected	20
Bis(2-chloroisopropyl)ether			Not detected	20	Not detected	20

Client Sample ID			B-3-30		B-3-40	
York Sample ID			01110022-15		01110022-16	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromobenzene			Not detected	2.0	Not detected	2.0
Bromodichloromethane			Not detected	2.0	Not detected	2.0
Bromoform			Not detected	2.0	Not detected	2.0
Bromomethane			Not detected	20	Not detected	20
Carbon tetrachloride			Not detected	2.0	Not detected	2.0
Chloroacetaldehyde			Not detected	20	Not detected	20
Chlorobenzene			Not detected	2.0	Not detected	2.0
Chloroethane			Not detected	20	Not detected	20
Chloroform			Not detected	2.0	Not detected	2.0
Chloromethane			Not detected	20	Not detected	20
Chloromethyl methyl ether			Not detected	2.0	Not detected	2.0
cis-1,3-Dichloropropylene			Not detected	2.0	Not detected	2.0
Dibromochloromethane			Not detected	2.0	Not detected	2.0
Dibromomethane			Not detected	2.0	Not detected	2.0
Dichlorodifluoromethane			Not detected	2.0	Not detected	2.0
Methylene chloride			Not detected	2.0	Not detected	2.0
Tetrachloroethylene			Not detected	2.0	Not detected	2.0
trans-1,3-Dichloropropylene			Not detected	2.0	Not detected	2.0
Trichloroethylene			Not detected	2.0	2	2.0
Trichlorofluoromethane			Not detected	2.0	Not detected	2.0
Trichloropropane			Not detected	2.0	Not detected	2.0
Vinyl chloride			Not detected	20	Not detected	20

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

Notes for York Project No. 01110022

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

Approved By: Robert Q. Bradley
Managing Director

Date: 11/9/2001

000010 **YORK**

CHAIN OF CUSTODY DOCUMENTATION

000011

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

01110022 Page 1 of 1

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	
LBG Trumbull, CT	Mike Manolakas	~~Mike~~ ~~Manolakas~~ Sony	Sony Orangetown, NY	Samples Collected By (Signature) Andrew Linton Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
B-1-10-S		10/29/01		✓			Halogenated Only EPA Method 8021B	1
B-1-20-S		10/29/01		✓				1
B-1-30-S		10/29/01		✓				1
B-2-10-S		10/30/01		✓				1
B-2-20-S		10/30/01		✓				1
B-3-10-S		10/30/01		✓				1
B-~~3~~-20-S		10/30/01		✓				1
B-~~3~~-30-S		10/31/01		✓				1
B-3-40-S		10/31/01		✓				1
B-~~8~~-10-S		10/31/01		✓				1

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Andrew Linton Sample Relinquished by	10/31/01 1700 Date/Time	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	J. Sample Received in LAB by	10-31-01 1700 Date/Time

Comments/Special Instructions: Category B Deliverable Package

Turn-Around Time: ✓ Standard ___ RUSH(define)_____

01110022

Page 1 of 1

YORK
ANALYTICAL LABORATORIES, INC.

One Research Drive
Stamford, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	
LBG Trumbull, CT	Mike Manolakas	Sony	Sony Orangetown, NY	Andrew Linton (Samples Collected By (Signature)) / Andrew Linton (Name (Printed))

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
B-1-20		10/29/01	✓				Halogenated Only EPA Method 8021B	2
B-1-30		10/30/01	✓					2
B-2-20		10/30/01	✓					2
B-3-20		10/30/01	✓					2
B-3-30		10/31/01	✓					2
B-3-40		10/31/01	✓					2

0000013

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Andrew Linton (Sample Relinquished by)	10/31/01 1700 (Date/Time)	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	J. Lee (Sample Received in LAB by)	10-31-01 1700 (Date/Time)

Comments/Special Instructions

Turn-Around Time

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Report Date: 11/9/2001
Re: Client Project ID: Sony Orangetown
York Project No.: 01110091

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

000001

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 11/9/2001
Client Project ID: Sony Orangetown
York Project No.: 01110091

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 11/02/01. The project was identifed as your project "Sony Orangetown ".

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

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

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

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

Analysis Results

Client Sample ID			B-7-10-S		B-15-20-S	
York Sample ID			01110091-01		01110091-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0

Client Sample ID			B-7-10-S		B-15-20-S	
York Sample ID			01110091-01		01110091-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			3 J	5.0	3 J	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			5	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			B-8-20-S		B-15-10-S	
York Sample ID			01110091-03		01110091-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50

Client Sample ID			B-8-20-S		B-15-10-S	
York Sample ID			01110091-03		01110091-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			17	5.0	3 J	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			B-7-20		B-8-20	
York Sample ID			01110091-05		01110091-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			9	1	9	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			7	1	14	1
1,1-Dichloroethylene			12	1	9	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			6(cis-)	1	1(t-)160(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1

Client Sample ID			B-7-20		B-8-20	
York Sample ID			01110091-05		01110091-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			58	1	180	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	12	10

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

Notes for York Project No. 01110091

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

Approved By: Robert Q. Bradley
Managing Director

Date: 11/9/2001

000005 YORK

CHAIN OF CUSTODY DOCUMENTATION

000006

YORK

011100 41

Page 1 of 1

YORK
ANALYTICAL LABORATORIES, INC.

ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	
LBG Trumbull, CT	Mike Manolakas	Sony Orangetown	Sony Orangetown, NY	Andrew Finton Samples Collected By (Signature) Andrew Linton Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
B-7-10-S	Orangetown/NY	11/2/01 930		✓			Halogenated Only EPA method 8021B	1
B-15-20-S		11/2/01 1430		✓				1
B-8-20-S		11/1/01 830		✓				1
B-15-10-S		11/2/01 1130		✓				1
B-7-20		11/2/01 815	✓					2
B-8-20		11/1/01 1000	✓					2

200000

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Andrew Finton Sample Relinquished by	11/2/01 1615 Date/Time	Wayne Sample Received by	11/2 1615 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	J. Lee Sample Received in LAB by	11-2-01 1615 Date/Time

Comments/Special Instructions

Turn-Around Time

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Report Date: 11/16/2001
Re: Client Project ID: Sony
York Project No.: 01110286

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

000001

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 11/16/2001
Client Project ID: Sony
York Project No.: 01110286

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 11/09/01. The project was identifed as your project "Sony ".

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

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

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

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

Analysis Results

Client Sample ID			B-9-10-S-2		B-9-10-S-1	
York Sample ID			01110286-01		01110286-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0

Client Sample ID			B-9-10-S-2		B-9-10-S-1	
York Sample ID			01110286-01		01110286-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			32 B	5.0	36 B	5.0
Tetrachloroethylene			8 B	5.0	6 B	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			B-9-10-S-3		B-13-10-S	
York Sample ID			01110286-03		01110286-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50

Client Sample ID			B-9-10-S-3		B-13-10-S	
York Sample ID			01110286-03		01110286-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			31 B	5.0	42 B	5.0
Tetrachloroethylene			7 B	5.0	6 B	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			B-13-20-S	
York Sample ID			01110286-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0
1,2-Dichloropropane			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
1-Chlorohexane			Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0
2-Chlorotoluene			Not detected	5.0
4-Chlorotoluene			Not detected	5.0
Benzyl chloride			Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50
Bromobenzene			Not detected	5.0

Client Sample ID			B-13-20-S	
York Sample ID			01110286-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	50
Carbon tetrachloride			Not detected	5.0
Chloroacetaldehyde			Not detected	50
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	50
Chloroform			Not detected	5.0
Chloromethane			Not detected	50
Chloromethyl methyl ether			Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dibromomethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Methylene chloride			43 B	5.0
Tetrachloroethylene			6 B	5.0
trans-1,3-Dichloropropylene			Not detected	5.0
Trichloroethylene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
Trichloropropane			Not detected	5.0
Vinyl chloride			Not detected	50

Client Sample ID			B-13-20	
York Sample ID			01110286-06	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/L	---	---
1,1,1,2-Tetrachloroethane			Not detected	1
1,1,1-Trichloroethane			Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1
1,1,2-Trichloroethane			Not detected	1
1,1-Dichloroethane			Not detected	1
1,1-Dichloroethylene			Not detected	1
1,2-Dichlorobenzene			Not detected	1
1,2-Dichloroethane			Not detected	1
1,2-Dichloroethylene (Total)			9(cis-)	1
1,2-Dichloropropane			Not detected	1
1,3-Dichlorobenzene			Not detected	1
1,4-Dichlorobenzene			Not detected	1
1-Chlorohexane			Not detected	1
2-Chloroethylvinyl ether			Not detected	1
2-Chlorotoluene			Not detected	1
4-Chlorotoluene			Not detected	1

Client Sample ID			B-13-20	
York Sample ID			01110286-06	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Benzyl chloride			Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10
Bromobenzene			Not detected	1
Bromodichloromethane			Not detected	1
Bromoform			Not detected	1
Bromomethane			Not detected	10
Carbon tetrachloride			Not detected	1
Chloroacetaldehyde			Not detected	10
Chlorobenzene			Not detected	1
Chloroethane			Not detected	10
Chloroform			Not detected	1
Chloromethane			Not detected	10
Chloromethyl methyl ether			Not detected	1
cis-1,3-Dichloropropylene			Not detected	1
Dibromochloromethane			Not detected	1
Dibromomethane			Not detected	1
Dichlorodifluoromethane			Not detected	1
Methylene chloride			Not detected	1
Tetrachloroethylene			Not detected	1
trans-1,3-Dichloropropylene			Not detected	1
Trichloroethylene			5	1
Trichlorofluoromethane			Not detected	1
Trichloropropane			Not detected	1
Vinyl chloride			Not detected	10

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

Notes for York Project No. 01110286

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

Approved By: _____ **Date:** 11/16/2001

Robert Q. Bradley
Managing Director

000006 YORK

CHAIN OF CUSTODY DOCUMENTATION

01110286

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
LBG, Trumbull, CT	Mike Manolakas	Sony	Sony Orangetown, NY	Andrew Cinton

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
B-9-10-S-2	Orangetown	11/8/01 925		✓			Halogenated Only EPA method 8021B	1
B-9-10-S-1	Orangetown	11/8/01 925		✓				1
B-9-10-S-3	Orangetown	11/8/01 925		✓				1
B-13-10-S	Orangetown	11/8/01 1335		✓				1
B-13-20-S	Orangetown	11/9/01 915		✓				1
B-13-20	Orangetown	11/9/01 1200	✓					3

8000000

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
		Andrew Cinton	11/9/01 1540		
Bottles Received in Field by	**Date/Time**	**Sample Relinquished by**	**Date/Time**	**Sample Received in LAB by**	**Date/Time**
					11/9/01 3:42P.

Comments/Special Instructions Calgon P Polyaromatic Packaged 2.1.6 °C **Turn-Around Time**

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Report Date: 11/15/2001
Re: Client Project ID: Sony-Orangetown
York Project No.: 01110207

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

000001

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 11/15/2001
Client Project ID: Sony-Orangetown
York Project No.: 01110207

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 11/07/01. The project was identifed as your project "Sony-Orangetown ".

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

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

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

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

Analysis Results

Client Sample ID			B-14-10-S		B-14-20-S	
York Sample ID			01110207-01		01110207-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	1
1,1,1-Trichloroethane			Not detected	5.0	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	1
1,1,2-Trichloroethane			Not detected	5.0	Not detected	1
1,1-Dichloroethane			Not detected	5.0	Not detected	1
1,1-Dichloroethylene			Not detected	5.0	Not detected	1
1,2-Dichlorobenzene			Not detected	5.0	Not detected	1
1,2-Dichloroethane			Not detected	5.0	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	1
1,2-Dichloropropane			Not detected	5.0	Not detected	1
1,3-Dichlorobenzene			Not detected	5.0	Not detected	1
1,4-Dichlorobenzene			Not detected	5.0	Not detected	1
1-Chlorohexane			Not detected	5.0	Not detected	1
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	1
2-Chlorotoluene			Not detected	5.0	Not detected	1
4-Chlorotoluene			Not detected	5.0	Not detected	1

Client Sample ID			B-14-10-S		B-14-20-S	
York Sample ID			01110207-01		01110207-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	50	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	10
Bromobenzene			Not detected	5.0	Not detected	1
Bromodichloromethane			Not detected	5.0	Not detected	1
Bromoform			Not detected	5.0	Not detected	1
Bromomethane			Not detected	50	Not detected	10
Carbon tetrachloride			Not detected	5.0	Not detected	1
Chloroacetaldehyde			Not detected	50	Not detected	10
Chlorobenzene			Not detected	5.0	Not detected	1
Chloroethane			Not detected	50	Not detected	10
Chloroform			Not detected	5.0	Not detected	1
Chloromethane			Not detected	50	Not detected	10
Chloromethyl methyl ether			Not detected	5.0	Not detected	1
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	1
Dibromochloromethane			Not detected	5.0	Not detected	1
Dibromomethane			Not detected	5.0	Not detected	1
Dichlorodifluoromethane			Not detected	5.0	Not detected	1
Methylene chloride			24 B	5.0	19 B	1
Tetrachloroethylene			5	5.0	5	1
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	1
Trichloroethylene			Not detected	5.0	Not detected	1
Trichlorofluoromethane			Not detected	5.0	Not detected	1
Trichloropropane			Not detected	5.0	Not detected	1
Vinyl chloride			Not detected	50	Not detected	10

Client Sample ID			B-16-20-S		B-15-28-S	
York Sample ID			01110207-03		01110207-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10

Client Sample ID			B-16-20-S		B-15-28-S	
York Sample ID			01110207-03		01110207-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			20 B	1	19 B	1
Tetrachloroethylene			6	1	6	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

Client Sample ID			B-16-10-S		B-6-10-S	
York Sample ID			01110207-05		01110207-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1

Client Sample ID			B-16-10-S		B-6-10-S	
York Sample ID			01110207-05		01110207-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			20 B	1	20 B	1
Tetrachloroethylene			6	1	6	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

Client Sample ID			B-6-10-D	
York Sample ID			01110207-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	1
1,1,1-Trichloroethane			Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1
1,1,2-Trichloroethane			Not detected	1
1,1-Dichloroethane			Not detected	1
1,1-Dichloroethylene			Not detected	1
1,2-Dichlorobenzene			Not detected	1
1,2-Dichloroethane			Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1
1,2-Dichloropropane			Not detected	1
1,3-Dichlorobenzene			Not detected	1
1,4-Dichlorobenzene			Not detected	1
1-Chlorohexane			Not detected	1
2-Chloroethylvinyl ether			Not detected	1
2-Chlorotoluene			Not detected	1
4-Chlorotoluene			Not detected	1
Benzyl chloride			Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10
Bromobenzene			Not detected	1
Bromodichloromethane			Not detected	1
Bromoform			Not detected	1

Client Sample ID			B-6-10-D	
York Sample ID			01110207-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Bromomethane			Not detected	10
Carbon tetrachloride			Not detected	1
Chloroacetaldehyde			Not detected	10
Chlorobenzene			Not detected	1
Chloroethane			Not detected	10
Chloroform			Not detected	1
Chloromethane			Not detected	10
Chloromethyl methyl ether			Not detected	1
cis-1,3-Dichloropropylene			Not detected	1
Dibromochloromethane			Not detected	1
Dibromomethane			Not detected	1
Dichlorodifluoromethane			Not detected	1
Methylene chloride			19 B	1
Tetrachloroethylene			6	1
trans-1,3-Dichloropropylene			Not detected	1
Trichloroethylene			Not detected	1
Trichlorofluoromethane			Not detected	1
Trichloropropane			Not detected	1
Vinyl chloride			Not detected	10

Client Sample ID			B-15-28		RB-1	
York Sample ID			01110207-08		01110207-09	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			10)cis-)	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1

Client Sample ID			B-15-28		RB-1	
York Sample ID			01110207-08		01110207-09	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			10	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

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

Notes for York Project No. 01110207

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

Approved By: Robert Q. Bradley
Managing Director

Date: 11/15/2001

000007 YORK

CHAIN OF CUSTODY DOCUMENTATION

000008

YORK

01110207

Page 1 of 1

YORK
ANALYTICAL LABORATORIES, INC.

One Research Drive
Stamford, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	
LBG Trumbull, CT	Mike Manolakas	Sony	Sony Orangetown, NY	Samples Collected By (Signature): Andrew Linton Name (Printed): Andrew Linton

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
B-14-10-S	Orangetown, NY	11/5/01 1500		✓			Hal. Only; EPA Method 8021B	1
B-14-20-S		11/6/01 1005		✓				1
B-16-20-S		11/6/01 1445		✓				1
B-15-28-S		11/5/01 1145		✓				1
B-16-10-S		11/6/01 1400		✓				1
B-15-28		11/5/01 1340	✓					2
B-6-10-S	Orangetown, NY	11/7/01 1345		✓			Hal. Only; EPA Method 8021B	1
B-6-10-D	600000	11/7/01 1345		✓				1
RB-1	600000	11/7/01 1500	✓					2
	600000							

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Andrew Linton Sample Relinquished by	11/7/01 Date/Time	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	J. Lal Sample Received in LAB by	11-7-01/1600 Date/Time

Comments/Special Instructions: Deliverable Package

Turn-Around Time

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Report Date: 4/15/2002
Re: Client Project ID: Sony Orangetown
York Project No.: 02040126

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

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 4/15/2002
Client Project ID: Sony Orangetown
York Project No.: 02040126

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 04/03/02. The project was identifed as your project "Sony Orangetown ".

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

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

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

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

Analysis Results

Client Sample ID			S-1		S-2	
York Sample ID			02040126-01		02040126-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			S-1		S-2	
York Sample ID			02040126-01		02040126-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			S-3		S-4	
York Sample ID			02040126-03		02040126-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50

YORK

Client Sample ID			S-3		S-4	
York Sample ID			02040126-03		02040126-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			S-5		S-6	
York Sample ID			02040126-05		02040126-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			S-5		S-6	
York Sample ID			02040126-05		02040126-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			S-7		MW-7D-10-12	
York Sample ID			02040126-07		02040126-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	10(cis-)	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			S-7		MW-7D-10-12	
York Sample ID			02040126-07		02040126-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	36	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			MW-3D-5-7		MW-3D-5-7 Dup	
York Sample ID			02040126-09		02040126-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			MW-3D-5-7		MW-3D-5-7 Dup	
York Sample ID			02040126-09		02040126-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			3 J	5.0	2 J	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

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

Notes for York Project No. 02040126

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

Approved By: Robert Q. Bradley
Managing Director

Date: 4/15/2002

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

02040126

Company Name	Report To:	Invoice To:	Project ID/No.	
LBG Trumbull, CT	Mike Manolakas	LBG	Sony Orangetown, NY	Samples Collected By (Signature): Andrew Linton Name (Printed): Andrew Linton

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
1	S-1	4/2/02		S			8021B (Hal only)	1
2	S-2			S				1
3	S-3			S				1
4	S-4			S				1
5	S-5			S				1
6	S-6			S				1
7	S-7			S				1
8	MW-7D-10-12			S				1
9	MW-3D-5-7	4/3/02		S				1
10	MW-3D-5-7Dup	4/3/02		S				1

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	4/3/02 16:40 Date/Time	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	4/3/02 4:40 Date/Time

Comments/Special Instructions

MLR Dall Data

Turn-Around Time

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Report Date: 4/8/2002
Re: Client Project ID: Sony Orangetown NY
York Project No.: 02040058

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

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 4/8/2002
Client Project ID: Sony Orangetown NY
York Project No.: 02040058

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 04/01/02. The project was identifed as your project "Sony Orangetown NY ".

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

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

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

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

Analysis Results

Client Sample ID			MW-10D-5-7		MW-10D-10-12	
York Sample ID			02040058-01		02040058-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			MW-10D-5-7		MW-10D-10-12	
York Sample ID			02040058-01		02040058-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			MW-14D-5-7		MW-14D-10-12	
York Sample ID			02040058-03		02040058-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50

YORK

Client Sample ID			MW-14D-5-7		MW-14D-10-12	
York Sample ID			02040058-03		02040058-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			MW-9D-10-12	
York Sample ID			02040058-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0
1,2-Dichloropropane			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
1-Chlorohexane			Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0
2-Chlorotoluene			Not detected	5.0
4-Chlorotoluene			Not detected	5.0
Benzyl chloride			Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50
Bromobenzene			Not detected	5.0

YORK

Client Sample ID			MW-9D-10-12	
York Sample ID			02040058-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	50
Carbon tetrachloride			Not detected	5.0
Chloroacetaldehyde			Not detected	50
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	50
Chloroform			Not detected	5.0
Chloromethane			Not detected	50
Chloromethyl methyl ether			Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dibromomethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Methylene chloride			Not detected	5.0
Tetrachloroethylene			Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0
Trichloroethylene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
Trichloropropane			Not detected	5.0
Vinyl chloride			Not detected	50

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

Notes for York Project No. 02040058

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

Approved By: Robert Q. Bradley
Managing Director

Date: 4/8/2002

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

02040058

Company Name	Report To:	Invoice To:	Project ID/No.	
LBG Trumbull, CT	Mike Mandakas	LBG	Sony Orangetown NY	Samples Collected By (Signature) Andrew Linton Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
1	MW-10D-5-7	3/28/02		✓			8021B (Hal VOC's only)	1
2	MW-10D-10-12	3/28/02		✓				1
3	MW-14D-5-7	3/29/02		✓				1
4	MW-14D-~~5-7~~ 10-12	3/29/02		✓				1
5	MW-9D-10-12	4/1/02		✓				1

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time 4/1/02 505
		Sample Received by	
		Sample Received in LAB by	Date/Time 4/1/02 5:0

Comments/Special Instructions

Turn-Around Time

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Report Date: 4/4/2002
Re: Client Project ID: Sony, Orangetown NY
York Project No.: 02030696

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

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 4/4/2002
Client Project ID: Sony, Orangetown NY
York Project No.: 02030696

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 03/27/02. The project was identifed as your project "Sony, Orangetown ".

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

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

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

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

Analysis Results

Client Sample ID			MW-4D-5-7		MW-12D-10-12	
York Sample ID			02030696-01		02030696-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			MW-4D-5-7		MW-12D-10-12	
York Sample ID			02030696-01		02030696-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			MW-4D-10-12		MW-13D-15-17	
York Sample ID			02030696-03		02030696-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50

YORK

Client Sample ID			MW-4D-10-12		MW-13D-15-17	
York Sample ID			02030696-03		02030696-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			MW-11D-10-12	
York Sample ID			02030696-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0
1,2-Dichloropropane			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
1-Chlorohexane			Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0
2-Chlorotoluene			Not detected	5.0
4-Chlorotoluene			Not detected	5.0
Benzyl chloride			Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50
Bromobenzene			Not detected	5.0

YORK

Client Sample ID			MW-11D-10-12	
York Sample ID			02030696-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	50
Carbon tetrachloride			Not detected	5.0
Chloroacetaldehyde			Not detected	50
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	50
Chloroform			Not detected	5.0
Chloromethane			Not detected	50
Chloromethyl methyl ether			Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dibromomethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Methylene chloride			Not detected	5.0
Tetrachloroethylene			Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0
Trichloroethylene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
Trichloropropane			Not detected	5.0
Vinyl chloride			Not detected	50

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

Notes for York Project No. 02030696

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

Approved By: Robert Q. Bradley
Managing Director

Date: 4/4/2002

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

02030916

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
LBG Trumbull, CT	Mike Manolakas	LBG	Sony, Orangetown NY	Andrew Linton

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
1	MW-4D-5-7	3/26/02		S			8021B Hal. only	1
2	MW-12D-10-12	3/26/02		S				1
3	MW 4D-10-12	3/26/02		S				1
4	MW-13D-15-17	3/27/02		S				1
5	MW-11D-10-12	3/27/02		S				1

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	3/27/02 1435 Date/Time	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	3/27 4:35P Date/Time

Comments/Special Instructions

Turn-Around Time

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Report Date: 4/15/2002
Re: Client Project ID: MRC
York Project No.: 02040176

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

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 4/15/2002
Client Project ID: MRC
York Project No.: 02040176

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 04/04/02. The project was identifed as your project "MRC ".

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

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

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

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

Analysis Results

Client Sample ID			MW-8D		MW-8D Duplicate	
York Sample ID			02040176-01		02040176-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			MW-8D		MW-8D Duplicate	
York Sample ID			02040176-01		02040176-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			MW-8D Triplicate	
York Sample ID			02040176-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 Halogenated	SW846-8021	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0
1,2-Dichloropropane			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
1-Chlorohexane			Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0
2-Chlorotoluene			Not detected	5.0
4-Chlorotoluene			Not detected	5.0
Benzyl chloride			Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50

YORK

Client Sample ID			MW-8D Triplicate	
York Sample ID			02040176-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	50
Bromobenzene			Not detected	5.0
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	50
Carbon tetrachloride			Not detected	5.0
Chloroacetaldehyde			Not detected	50
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	50
Chloroform			Not detected	5.0
Chloromethane			Not detected	50
Chloromethyl methyl ether			Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dibromomethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Methylene chloride			Not detected	5.0
Tetrachloroethylene			Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0
Trichloroethylene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
Trichloropropane			Not detected	5.0
Vinyl chloride			Not detected	50

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

Notes for York Project No. 02040176

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

Approved By: _____ **Date:** 4/15/2002

Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

0204017G.

Company Name	Report To:	Invoice To:	Project ID/No.
LBG, Inc. 126 Monroe Turnpike Trumbull, CT 06611	Michael Manolakos	LBG, Inc.	MRC 542 Route 303 Orangetown, NY

Samples Collected By (Signature)

Michael Manolakos
Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
MW-8D	0 to 2 ft bg	4/4/02		X			8021 B Halogenated only	1-4oz jar
MW-8D Duplicate	0 to 2 ft bg	4/4/02		X			8021 B Halogenated only	1-4oz jar
MW-8D Triplicate	0 to 2 ft bg	4/4/02		X			8021 B Halogenated only	1-4oz jar

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	4-4-02 1445 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time
Sample Received by	Date/Time	Sample Received in LAB by	4/4/02 4:45 Date/Time

Comments/Special Instructions
Catagory B Deliverable Package

Turn-Around Time
X Standard RUSH(define)

APPENDIX III
LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS FOR GROUND-WATER SAMPLES

YORK
ANALYTICAL LABORATORIES, INC.

York Analytical Laboratories, Inc.

Technical Report

prepared for

Leggette, Brashears & Graham
Trumbull, CT
Mr. Michael Manolakas

Re: SONY Orangetown

York Project No. 01110487

11/28/2001

Volume 1 of 1

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Table of Contents

York Project ID 01110487

YORK

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mr. Mike Manolakas

Report Date: 11/28/2001
Re: Client Project ID: SONY Orangetown
York Project No.: 01110487

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

000001

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 11/28/2001
Client Project ID: SONY Orangetown
York Project No.: 01110487

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mr. Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 11/19/01. The project was identifed as your project "SONY Orangetown ".

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

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

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

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

Analysis Results

Client Sample ID			MW6S		MW6D	
York Sample ID			01110487-01		01110487-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	37	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	2	1
1,1-Dichloroethylene			Not detected	1	32	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	3(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1

Client Sample ID			MW6S		MW6D	
York Sample ID			01110487-01		01110487-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	1	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	72	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

Client Sample ID			MW5S		MW5D	
York Sample ID			01110487-03		01110487-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8240	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	1	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	1	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10

Client Sample ID			MW5S		MW5D	
York Sample ID			01110487-03		01110487-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

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

Notes for York Project No. 01110487

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

Approved By: _____ **Date:** 11/28/2001

Robert Q. Bradley
Managing Director

000004 YORK

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Report Date: 4/29/2002
Re: Client Project ID: MRC
York Project No.: 02040542

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

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 4/29/2002
Client Project ID: MRC
York Project No.: 02040542

Leggette Brashears & Graham
126 Monroe Turnpike
Trumbull, CT 06611
Attention: Mike Manolakas

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 04/22/02. The project was identifed as your project "MRC ".

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

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

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

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

Analysis Results

Client Sample ID			MW-2		MW-3D	
York Sample ID			02040542-01		02040542-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	48	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	22	1
1,1-Dichloroethylene			Not detected	1	75	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-2		MW-3D	
York Sample ID			02040542-01		02040542-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	2	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	30	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

Client Sample ID			MW-4D		MW-5S	
York Sample ID			02040542-03		02040542-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	1
1,1,1-Trichloroethane			5	5.0	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	1
1,1,2-Trichloroethane			Not detected	5.0	Not detected	1
1,1-Dichloroethane			6	5.0	Not detected	1
1,1-Dichloroethylene			17	5.0	Not detected	1
1,2-Dichlorobenzene			Not detected	5.0	Not detected	1
1,2-Dichloroethane			Not detected	5.0	Not detected	1
1,2-Dichloroethylene (Total)			5(t-)250(c-)	5.0	Not detected	1
1,2-Dichloropropane			Not detected	5.0	Not detected	1
1,3-Dichlorobenzene			Not detected	5.0	Not detected	1
1,4-Dichlorobenzene			Not detected	5.0	Not detected	1
1-Chlorohexane			Not detected	5.0	Not detected	1
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	1
2-Chlorotoluene			Not detected	5.0	Not detected	1
4-Chlorotoluene			Not detected	5.0	Not detected	1
Benzyl chloride			Not detected	50	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	10

YORK

Client Sample ID			MW-4D		MW-5S	
York Sample ID			02040542-03		02040542-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	10
Bromobenzene			Not detected	5.0	Not detected	1
Bromodichloromethane			Not detected	5.0	Not detected	1
Bromoform			Not detected	5.0	Not detected	1
Bromomethane			Not detected	50	Not detected	10
Carbon tetrachloride			Not detected	5.0	Not detected	1
Chloroacetaldehyde			Not detected	50	Not detected	10
Chlorobenzene			Not detected	5.0	Not detected	1
Chloroethane			Not detected	50	Not detected	10
Chloroform			3 J	5.0	Not detected	1
Chloromethane			Not detected	50	Not detected	10
Chloromethyl methyl ether			Not detected	5.0	Not detected	1
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	1
Dibromochloromethane			Not detected	5.0	Not detected	1
Dibromomethane			Not detected	5.0	Not detected	1
Dichlorodifluoromethane			Not detected	5.0	Not detected	1
Methylene chloride			Not detected	5.0	Not detected	1
Tetrachloroethylene			Not detected	5.0	Not detected	1
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	1
Trichloroethylene			330	5.0	Not detected	1
Trichlorofluoromethane			Not detected	5.0	Not detected	1
Trichloropropane			Not detected	5.0	Not detected	1
Vinyl chloride			55	50	Not detected	10

Client Sample ID			MW-5D		MW-6S	
York Sample ID			02040542-05		02040542-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-5D		MW-6S	
York Sample ID			02040542-05		02040542-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

Client Sample ID			MW-6D		MW-7S	
York Sample ID			02040542-07		02040542-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			62	1	40	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			5	1	5	1
1,1-Dichloroethylene			66	1	12	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			7(cis-)	1	48(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-6D		MW-7S	
York Sample ID			02040542-07		02040542-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			140	1	110	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	44	10

Client Sample ID			MW-7D		MW-8D	
York Sample ID			02040542-09		02040542-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	25	Not detected	1
1,1,1-Trichloroethane			Not detected	25	3	1
1,1,2,2-Tetrachloroethane			Not detected	25	Not detected	1
1,1,2-Trichloroethane			Not detected	25	Not detected	1
1,1-Dichloroethane			68	25	Not detected	1
1,1-Dichloroethylene			98	25	Not detected	1
1,2-Dichlorobenzene			Not detected	25	Not detected	1
1,2-Dichloroethane			Not detected	25	Not detected	1
1,2-Dichloroethylene (Total)			36(t-)2900(c-)	25	Not detected	1
1,2-Dichloropropane			Not detected	25	Not detected	1
1,3-Dichlorobenzene			Not detected	25	Not detected	1
1,4-Dichlorobenzene			Not detected	25	Not detected	1
1-Chlorohexane			Not detected	25	Not detected	1
2-Chloroethylvinyl ether			Not detected	25	Not detected	1
2-Chlorotoluene			Not detected	25	Not detected	1
4-Chlorotoluene			Not detected	25	Not detected	1
Benzyl chloride			Not detected	250	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	250	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	250	Not detected	10
Bromobenzene			Not detected	25	Not detected	1
Bromodichloromethane			Not detected	25	Not detected	1
Bromoform			Not detected	25	Not detected	1
Bromomethane			Not detected	250	Not detected	10
Carbon tetrachloride			Not detected	25	Not detected	1

YORK

Client Sample ID			MW-7D		MW-8D	
York Sample ID			02040542-09		02040542-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloroacetaldehyde			Not detected	250	Not detected	10
Chlorobenzene			Not detected	25	Not detected	1
Chloroethane			Not detected	250	Not detected	10
Chloroform			Not detected	25	Not detected	1
Chloromethane			Not detected	250	Not detected	10
Chloromethyl methyl ether			Not detected	25	Not detected	1
cis-1,3-Dichloropropylene			Not detected	25	Not detected	1
Dibromochloromethane			Not detected	25	Not detected	1
Dibromomethane			Not detected	25	Not detected	1
Dichlorodifluoromethane			Not detected	25	Not detected	1
Methylene chloride			Not detected	25	Not detected	1
Tetrachloroethylene			Not detected	25	Not detected	1
trans-1,3-Dichloropropylene			Not detected	25	Not detected	1
Trichloroethylene			850	25	Not detected	1
Trichlorofluoromethane			Not detected	25	Not detected	1
Trichloropropane			Not detected	25	Not detected	1
Vinyl chloride			730	250	Not detected	10

Client Sample ID			MW-9D		MW-9S	
York Sample ID			02040542-11		02040542-12	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			11	1	6	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			100	1	4	1
1,1-Dichloroethylene			180	1	8	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			240(cis-)	1	4(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-9D		MW-9S	
York Sample ID			02040542-11		02040542-12	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			900	1	20	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			29	10	1 J	10

Client Sample ID			MW-10S		MW-10D	
York Sample ID			02040542-13		02040542-14	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			25	1	31	1
1,1-Dichloroethylene			3	1	11	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			83(cis-)	1	180(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-10S		MW-10D	
York Sample ID			02040542-13		02040542-14	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			11	1	100	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			58	10	84	10

Client Sample ID			MW-11S		MW-11D	
York Sample ID			02040542-15		02040542-16	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			2	1	3	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			45(cis-)	1	90(cis-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-11S		MW-11D	
York Sample ID			02040542-15		02040542-16	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			65	1	92	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	3 J	10

Client Sample ID			MW-12		MW-13	
York Sample ID			02040542-17		02040542-18	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	500	Not detected	1
1,1,1-Trichloroethane			Not detected	500	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	500	Not detected	1
1,1,2-Trichloroethane			Not detected	500	Not detected	1
1,1-Dichloroethane			Not detected	500	Not detected	1
1,1-Dichloroethylene			Not detected	500	Not detected	1
1,2-Dichlorobenzene			Not detected	500	Not detected	1
1,2-Dichloroethane			Not detected	500	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	500	Not detected	1
1,2-Dichloropropane			Not detected	500	Not detected	1
1,3-Dichlorobenzene			Not detected	500	Not detected	1
1,4-Dichlorobenzene			Not detected	500	Not detected	1
1-Chlorohexane			Not detected	500	Not detected	1
2-Chloroethylvinyl ether			Not detected	500	Not detected	1
2-Chlorotoluene			Not detected	500	Not detected	1
4-Chlorotoluene			Not detected	500	Not detected	1
Benzyl chloride			Not detected	5000	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	5000	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	5000	Not detected	10
Bromobenzene			Not detected	500	Not detected	1
Bromodichloromethane			Not detected	500	Not detected	1
Bromoform			Not detected	500	Not detected	1
Bromomethane			Not detected	5000	Not detected	10
Carbon tetrachloride			Not detected	500	Not detected	1
Chloroacetaldehyde			Not detected	5000	Not detected	10
Chlorobenzene			Not detected	500	Not detected	1
Chloroethane			Not detected	5000	Not detected	10
Chloroform			Not detected	500	Not detected	1
Chloromethane			Not detected	5000	Not detected	10
Chloromethyl methyl ether			Not detected	500	Not detected	1
cis-1,3-Dichloropropylene			Not detected	500	Not detected	1
Dibromochloromethane			Not detected	500	Not detected	1

YORK

Client Sample ID			MW-12		MW-13	
York Sample ID			02040542-17		02040542-18	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Dibromomethane			Not detected	500	Not detected	1
Dichlorodifluoromethane			Not detected	500	Not detected	1
Methylene chloride			Not detected	500	Not detected	1
Tetrachloroethylene			3700	500	Not detected	1
trans-1,3-Dichloropropylene			Not detected	500	Not detected	1
Trichloroethylene			21000	500	Not detected	1
Trichlorofluoromethane			Not detected	500	Not detected	1
Trichloropropane			Not detected	500	Not detected	1
Vinyl chloride			Not detected	5000	Not detected	10

Client Sample ID			MW-13 Dup		MW-13 Trip	
York Sample ID			02040542-19		02040542-20	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2-Chloroethylvinyl ether			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzyl chloride			Not detected	10	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10	Not detected	10
Bromobenzene			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	1
Chloroacetaldehyde			Not detected	10	Not detected	10
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	10	Not detected	10
Chloromethyl methyl ether			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-13 Dup		MW-13 Trip	
York Sample ID			02040542-19		02040542-20	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Methylene chloride			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			1	1	1	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Trichloropropane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	10	Not detected	10

Client Sample ID			MW-14D		Trip Blank	
York Sample ID			02040542-21		02040542-22	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	2.0	Not detected	1
1,1,1-Trichloroethane			21	2.0	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	2.0	Not detected	1
1,1,2-Trichloroethane			Not detected	2.0	Not detected	1
1,1-Dichloroethane			4	2.0	Not detected	1
1,1-Dichloroethylene			21	2.0	Not detected	1
1,2-Dichlorobenzene			Not detected	2.0	Not detected	1
1,2-Dichloroethane			Not detected	2.0	Not detected	1
1,2-Dichloroethylene (Total)			200(cis-)	2.0	Not detected	1
1,2-Dichloropropane			Not detected	2.0	Not detected	1
1,3-Dichlorobenzene			Not detected	2.0	Not detected	1
1,4-Dichlorobenzene			Not detected	2.0	Not detected	1
1-Chlorohexane			Not detected	2.0	Not detected	1
2-Chloroethylvinyl ether			Not detected	2.0	Not detected	1
2-Chlorotoluene			Not detected	2.0	Not detected	1
4-Chlorotoluene			Not detected	2.0	Not detected	1
Benzyl chloride			Not detected	20	Not detected	10
Bis(2-chloroethoxy)methane			Not detected	20	Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	20	Not detected	10
Bromobenzene			Not detected	2.0	Not detected	1
Bromodichloromethane			Not detected	2.0	2	1
Bromoform			Not detected	2.0	Not detected	1
Bromomethane			Not detected	20	Not detected	10
Carbon tetrachloride			Not detected	2.0	Not detected	1
Chloroacetaldehyde			Not detected	20	Not detected	10
Chlorobenzene			Not detected	2.0	Not detected	1
Chloroethane			Not detected	20	Not detected	10
Chloroform			Not detected	2.0	13	1
Chloromethane			Not detected	20	Not detected	10
Chloromethyl methyl ether			Not detected	2.0	Not detected	1
cis-1,3-Dichloropropylene			Not detected	2.0	Not detected	1
Dibromochloromethane			Not detected	2.0	Not detected	1
Dibromomethane			Not detected	2.0	Not detected	1
Dichlorodifluoromethane			Not detected	2.0	Not detected	1
Methylene chloride			Not detected	2.0	Not detected	1
Tetrachloroethylene			Not detected	2.0	Not detected	1

YORK

Client Sample ID			MW-14D		Trip Blank	
York Sample ID			02040542-21		02040542-22	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
trans-1,3-Dichloropropylene			Not detected	2.0	Not detected	1
Trichloroethylene			200	2.0	Not detected	1
Trichlorofluoromethane			Not detected	2.0	Not detected	1
Trichloropropane			Not detected	2.0	Not detected	1
Vinyl chloride			Not detected	20	Not detected	10

Client Sample ID			Field Blank	
York Sample ID			02040542-23	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-8021 Halogenated	SW846-8260	ug/L	---	---
1,1,1,2-Tetrachloroethane			Not detected	1
1,1,1-Trichloroethane			Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1
1,1,2-Trichloroethane			Not detected	1
1,1-Dichloroethane			Not detected	1
1,1-Dichloroethylene			Not detected	1
1,2-Dichlorobenzene			Not detected	1
1,2-Dichloroethane			Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1
1,2-Dichloropropane			Not detected	1
1,3-Dichlorobenzene			Not detected	1
1,4-Dichlorobenzene			Not detected	1
1-Chlorohexane			Not detected	1
2-Chloroethylvinyl ether			Not detected	1
2-Chlorotoluene			Not detected	1
4-Chlorotoluene			Not detected	1
Benzyl chloride			Not detected	10
Bis(2-chloroethoxy)methane			Not detected	10
Bis(2-chloroisopropyl)ether			Not detected	10
Bromobenzene			Not detected	1
Bromodichloromethane			Not detected	1
Bromoform			Not detected	1
Bromomethane			Not detected	10
Carbon tetrachloride			Not detected	1
Chloroacetaldehyde			Not detected	10
Chlorobenzene			Not detected	1
Chloroethane			Not detected	10
Chloroform			Not detected	1
Chloromethane			Not detected	10
Chloromethyl methyl ether			Not detected	1
cis-1,3-Dichloropropylene			Not detected	1
Dibromochloromethane			Not detected	1
Dibromomethane			Not detected	1
Dichlorodifluoromethane			Not detected	1
Methylene chloride			Not detected	1
Tetrachloroethylene			Not detected	1
trans-1,3-Dichloropropylene			Not detected	1
Trichloroethylene			Not detected	1

YORK

Client Sample ID			Field Blank	
York Sample ID			02040542-23	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Trichlorofluoromethane			Not detected	1
Trichloropropane			Not detected	1
Vinyl chloride			Not detected	10

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

Notes for York Project No. 02040542

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

Approved By: Robert Q. Bradley
Managing Director

Date: 4/29/2002

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

02040542

Company Name	Report To:	Invoice To:	Project ID/No.
LBG, Inc. 126 Monroe Turnpike Trumbull, CT	Michael Manolakos	LBG, Inc.	MRC Orangetown, NY

Samples Collected By (Signature)

Michael Manolakos & Jim Lantowski

Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
MW-2		4/19/02	X				8021B (Halogenated only)	2 VOAs
MW-3D		"	X					2 Voas
MW-4D		"	X					2 Voas
MW-5S			X					2 Voas
[illegible]								
MW-5D			X					2 Voas
MW-6S			X					2 Voas
MW-6D			X					2 Voas
MW-7S			X					2 Voas
MW-7D			X					2 Voas

Chain-of-Custody Record

	Date/Time		Date/Time		Date/Time
Bottles Relinquished from Lab by		Sample Relinquished by	4/22/02/11:00	Sample Received by	4-22-02 @ 11:00
Bottles Received in Field by		Sample Relinquished by		Sample Received in LAB by	4-22-02/1530

Comments/Special Instructions: Catagory B deliverable package required. 4.4°C

Turn-Around Time: X Standard RUSH(define)

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.
LBG, Inc. 126 Monroe Turnpike Trumbull, CT	Michael Manolakes	LBG, Inc.	MRC. Orangetown, NY

Samples Collected By (Signature)

Michael Manolakes & Tim Lantowski
Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
MW-8D		4/19/02	X				8021B Halogenated only	2 VOAs
MW-9D			X					
MW-9S			X					
MW-10S			X					
MW-10D			X					
MW-11S			X					
MW-11D			X					
MW-12			X					
MW-13			X					
MW-13 (Duplicate)			X					

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	4/23/02 11:00 Date/Time	Sample Received by	4-22-02 @ 11:00 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	4-22-02 1530 Date/Time

Comments/Special Instructions
Catagory B Deliverable Package

Turn-Around Time
X Standard RUSH(define)

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature)
LBG, Inc. 126 Monroe Turnpike Trumbull, CT 06611	Michael Mandlakas	LBG, Inc. 126 Monroe Turnpike Trumbull, CT 06611	MRC Orangetown, NY	Michael Mandlakas & Jim Lantawski Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
MW-13	~~[illegible]~~ (Triplicate)	4/19/02	X				8021B Halogenated only	2 VOAS
MW-14D		4/19/02	X				8021B Halogenated only	2 Voas
Trip Blank		4/19/02	X				8021B Halogenated only	2 VOAS
Field Blank		4/19/02	X				8021B Halogenated only	2 VOAS

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	4/22/02/1100 Date/Time	Sample Received by	4-22-02 @11:00 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	4-22-02/1530 Date/Time

Comments/Special Instructions: Catagory B Deliverable Package

Turn-Around Time: ✓ Standard RUSH(define)

APPENDIX IV
NOTES FROM ROCKLAND COUNTY HEALTH DEPARTMENT FILE REVIEW

Glenshaw Glass Company

7/6/65 (hand written notes)

Six to eight months prior to date; oil running over bank to Southeast of building along fence into tributary to brook. Glenshaw Glass installed a 5,000-gallon waste oil underground storage tank (UST) on west side of property to remedy problem.

Overflow of the tank occurred two to three week prior. Mercury Oil of Bayonne, N.J. periodically cleaned tank. They were called on this occasion, but overflow occurred prior to cleaning.

Other releases to stream have occurred from drums were spilled and pile near bank since no permanent containment structure existed. Figure 1 goes with above comments, there is no clear description in text as to better describe release areas. Please note, there was no signature attached with written text.

8/6/65 (hand written notes)

Two problems;

1) black oil; and
2) soluble oil from cutting machines and material handling - white emulsion.

Pump failure, 8/8/65 in recirculation of soluble oil, discharge milk effluent to drainage ditch (figure 1).

9/11/79 (Letter)

Trichloroethylene (TCE) and tetrachloroethylene (PCE) were detected in the two wells on the Glenshaw Glass Company property. Detection levels were not noted. The letter also discusses water discharged to Sparkill Creek under SPEDES Permit No. NY-0006467. It says test results from these discharge waters will be reported to the New York State Department of Environmental Conservation (NYSDEC), but does not discuss results.

Author: Robert J. Mansfield, P.E.
Assistant Public Health Engineer

March 23, 1982 (Memorandum)

Letter references the September 11, 1978 samples collected from Wells 1 and 2 on Glenshaw Property. Considering the poor hydrogeologic characteristics of the unconsolidated materials in the area and shallow bedrock, it is reasonable to assume that both of the wells are set in the bedrock. The results are shown in the following table:

September 11, 1978		
Constituent	**Well 1**	**Well 2**
Trichloroethylene (ug/l)	101.6	73.4[1/]
Tetrachloroethylene (ug/l)	1.6	1.6

1/ September 26, 1978 showed result of 73.4 ug/l rather than 173.4 ug/l which was indicated in February 6, 1986 letter.

The letter indicates that the source of the contamination was "an improperly maintained 2,500-gallon waste storage tank on southeast corner of the building which contained an industrial degreaser called Act Soln manufactured by Aetna Chemical Corp. of Elmwood Park, New Jersey (see sketch enclosed)." Sketch is attached as figure 2.

The memorandum recommends that periodic testing for halogenated hydrocarbons be re-examined.

Author: Robert J. Mansfield, P.E.
Assistant Public Health Engineer

2//6/86 (Letter)

Results of January 9, 1981 samples collected from Glenshaw Glass Company are shown on table below.

January 9, 1981		
	Catch Basin at Northwest corner of Route 303 and Glenshaw Street	**Catch Basin located 30 feet west of Route 303 and Glenshaw Street**
Chloroform (ug/l)	2	2
1,1,1 Trichloroethane (ug/l)	69	869
Bromodichloromethane (ug/l)	1	1
Trichloroethylene (ug/l)	18	7
Dibromochloromethane (ug/l)	3	2
Bromoform (ug/l)	3	2
Tetrachloroethylene (ug/l)	7	6

The letter expresses concerns of the concentrations of the volatile organic compounds detected, because of the proximity of the release to Blauvelt Well 15 of the Spring Valley Water Company.

Author John A. Hroncich
Sanitary Engineer
Hackensack Water Company

Arglass Corporation/Aluf Plastics

General Discussion

A February 3, 1984 plate of the Arglass Corporation (former Glenshaw Glass Company facility and map) noted that the general plant maintenance shop and machine repair department were located on the northeast corner of the facility. This would place these rooms just north of the Glenshaw Street entrance and directly upgradient of the Materials Research Corporation facility. A hazardous material storage location plate showed all chemical storage is located at and south of the north/south midpoint of the facility.

Later maps show two monitor wells located north of Glenshaw Street upgradient of the MRC (figure 3). Neither are downgradient of the maintenance shop and machine repair department. In addition, there were no VOCs detected in either of the wells.

A surface-water sample was collected from a catch basin identified as 30 feet west of Glenshaw Street and Route 303. The location was not identified on a map. Nonetheless, a high concentration of TCA (869 ppb (parts per billion)) was identified.

Samples were also collected in 1993 which are not discussed in the below text. The samples were collected from Aluf Plastics discharge location. These samples showed low levels of halogenated VOCs.

1/21/92 NYSDEC Spills (Spill No. 91-10894)

Aluf plastics is listed under NYSDEC Spills (Spill No. 91-10894). Notes of spill are on sheets dates January 21, 1992. The NYSDEC spill supersedes complaint No. 92-5 made by the Orangetown Police. Aluf was noted for pumping liquid into stream from companies sump system. It identifies the liquid as unknown and indicates that it has impacted surface water and ground water. The spill was reported under Article 15 of New York State Navigation Law. Aluf plastics was also noted as having two outfall pipes discharging into the stream abutting property.

Banks of stream were noted as heavy black sedimentation (staining). Samples were collected during the investigation, but it is unclear where the results are and what was sampled.

VOC Analytical Results

September 18, 1990	
Contaminant	**Aluf Discharge[1]**
Bromochloromethane (ug/l)	7
Chloroform (ug/l)	59
1,1 Dichlorobenzene (ug/l)	276
Ethylbenzene (ug/l)	6
Toluene (ug/l)	26
1,1,1 Trichloroethane (ug/l)	5
M,P-Xylenes (ug/l)	20
O-Xylenes (ug/l)	7

1/ unknown location, but review of files indicates it is south of Glenshaw Street.

Note: Analyzed by EPA Method 524.

January 21, 1992	
Contaminant	**Aluf Discharge[1]**
Acetone (ug/l)	163
Chloroform (ug/l)	11
1,1,1 Trichloroethane (ug/l)	681
1,4 Dichlorobenzene (ug/l)	16
Toluene (ug/l)	5

1/ Discharge from 12-inch pipe from ALUF Plastics.

February 7, 1992			
Contaminant	**Stream Abutting Aluf Plastics[1]**	**Stream Abutting Aluf Plastics[1]**	**Sump in Aluf Plastics**
1,4-Dichlorobenze (ug/l)	49	52	130
Chloroform (ug/l)	8.6	ND<1	16
1,1 Dichloroethane (ug/l)	18	12	ND<0.5
Methylene Chloride (ug/l)	97	84	1,200
1,1,1-Trichloroethane (ug/l)	784	800	810
Tetrachloroethylene (ug/l)	ND<0.5	ND<1	8.4
Toluene (ug/l)	ND<0.5	ND<1	13
Total Xylenes (ug/l)	8.1	8.9	ND<1

1/ Two samples collected from stream. The point was a down stream of Aluf discharge.

Note: Analyzed by EPA Methods 601 and 602.

3/5/86 YWC Engineering Division Letter

This letter was addressed to American Trading Real Estate Properties, Inc. The letter discusses results of the soil investigation described below (3/25/86 letter) and discusses ground-water analyses. The location of the samples are shown on figure 3. Please note, only aromatic volatile organic compounds (VOCs) were found during the soil investigation. Ground-water sample results are below.

August 1981		
	Glenshaw Well #1	**Glenshaw Well #2**
1,1-Trichloroethane (ug/l)	2.1	7.7
Trichloroethylene (ug/l)	3.9	2
Tetrachloroethylene (ug/l)	2.8	ND<1
September 1978		
Trichloroethylene (ug/l)	101.6	173.4
Tetrachloroethylene (ug/l)	1.6	1.6

YWC collected ground-water samples in February 1986 from Monitor Wells MW-1, MW-2 and MW-3 (figure 3). The samples were analyzed for aromatic and halogenated VOCs. There was no detection VOCs detected in any of the wells. There was no details provided for the well constructions.

3/25/86 Pollution Enterprises, Inc. Letter

The above completed a soil boring investigation of the southwestern (believe 5,000-gallon waste-oil UST mentioned 7/6/65 notes) UST. Bedrock was found to be range from 13 to 14 ft bg. A total of eight borings were drilled around the UST, two of the borings were completed as wells. Two soil samples were collected from two borings (total four soil samples). Aromatic VOCs were identified in all four samples. There were no leachable metals or halogenated VOCs. In addition, two ground-water samples were analyzed for metals, aromatic VOCs and halogenated VOCs. There were no detections identified in the ground water.

Author: Paul Spilman
Staff Geologist
Pollution Enterprises, Inc.

H:\SONY\1999\STATUS.LTR

near the oil stain which could have been responsible for overflow

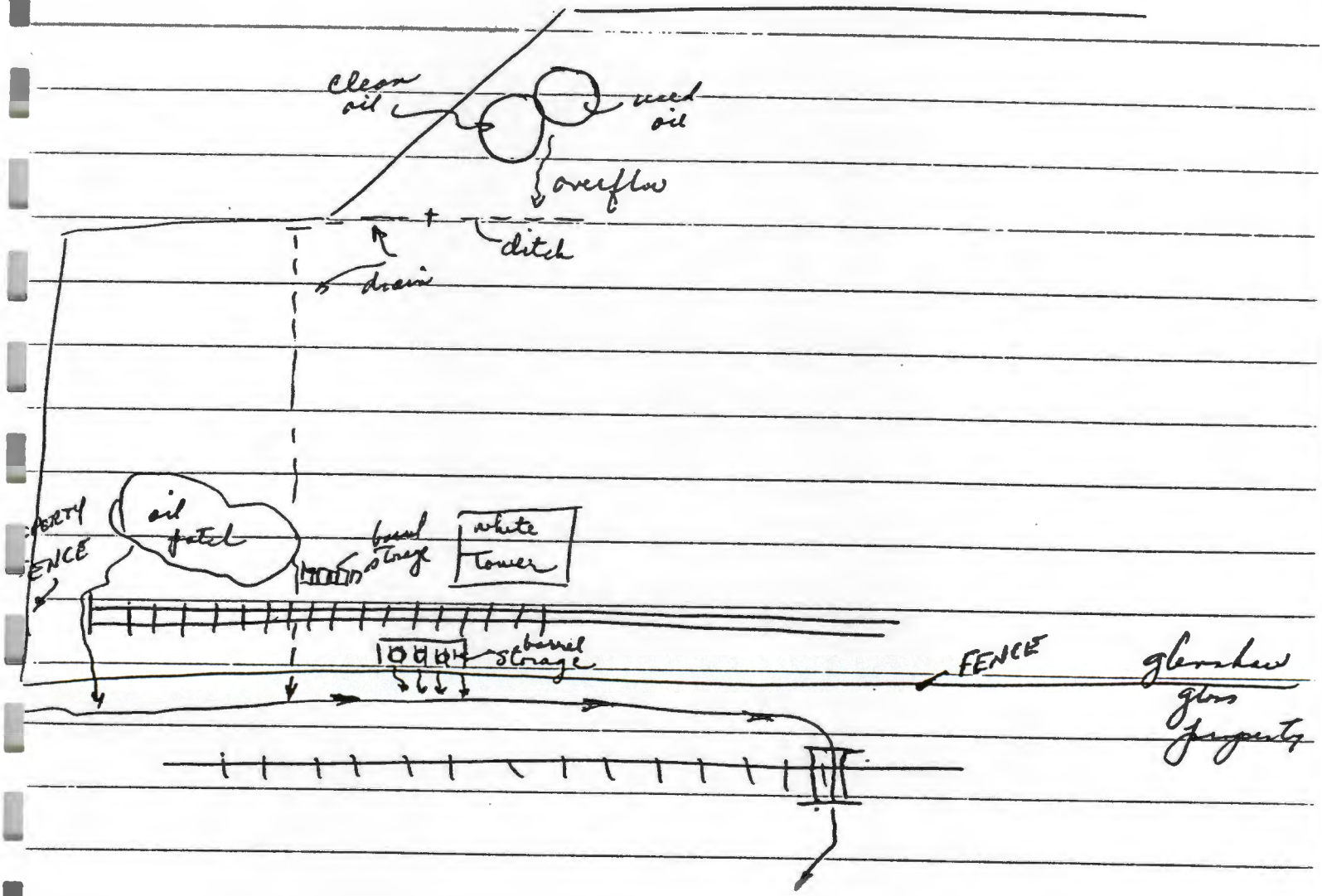
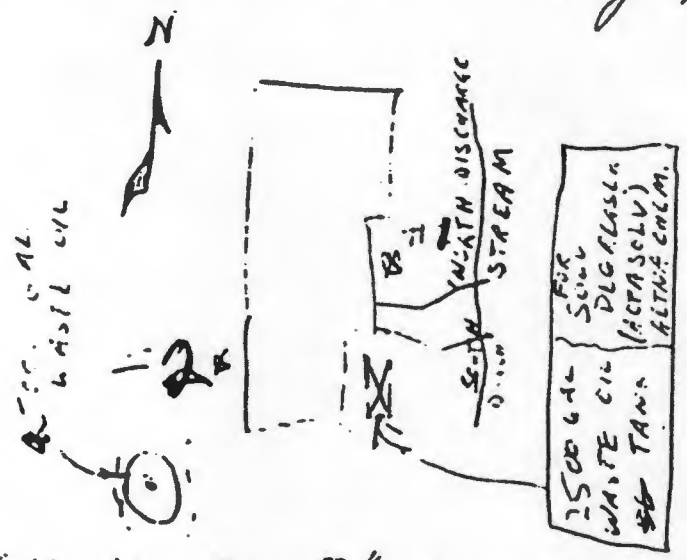


Figure 1

1:15 PM 11/1-79

Tony Bucci - Plant Manager



$\pm$ 50,000 $^{\pm}$ each pump.

1. THERE IS ~~A~~ A 3" INTERCONNECTION BET. SOLV CO + WILL LINE. THIS CONNECTION IS BEING. ~~WILL BE REMOVED FOUR~~.

Now.

SOUTH DISCH FROM SETTL. TANK.
NORTH DISCH FROM COMPRESSOR

ACT A SOLV
AETNA CHEMICAL
ELMWOOD PK N.J.

SMITHLINE SCA SERV. 201-772-9496 JH-026
1816 S. BH

Figure 2

AMERICAN TRADING REAL ESTATE PROPERTIES, INC.

GLENSHAW GLASS COMPANY
ORANGEBURG, NEW YORK

SOUTHERN PORTION OF SITE

MONITORING WELL AND
SOIL BORING LOCATIONS

Scale 1" = 200'

250,000 gal.
#2 Oil
Storage Tank

MW-1
B-1

Sandy
Propane Tank

MW-3
B-3

Access Road - Dump Area

North Troop Road

Figure 3

APPENDIX V
FIELD SAMPLING SHEETS

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-2			Date: 4/19/02			Weather: 80 and clear	
Depth to Water (feet below top of casing): 19.05					Total Depth (feet below top of casing): 19.6		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 9:50				Sampled by: Jim Lantowski			
Comments: Not enough water for parameters. Sample collected from bottom of well, 19.5' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-3S			Date: 4/19/02			Weather:	
Depth to Water (feet below top of casing):					Total Depth (feet below top of casing):		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected:				Sampled by:			
Comments: Dry							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-3D			Date: 4/19/02			Weather: 80 clear	
Depth to Water (feet below top of casing): 19.32					Total Depth (feet below top of casing): 45		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
12:36	1.4	7.84	2.40	163.0	4.78	18.5	123
12:39	1.4	7.77	2.28	90.6	0.02	19.6	112
12:42	1.4	7.75	2.38	100.2	0.01	19.7	108
12:45	1.4	7.72	2.38	100.1	0.01	19.8	104
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 12:46				Sampled by: Jim Lantowski			
Comments: Sample collected from 37.5' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-4S			Date: 4/19/02			Weather:	
Depth to Water (feet below top of casing):					Total Depth (feet below top of casing):		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected:				Sampled by:			
Comments: Dry							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-4D			Date: 4/19/02			Weather: 80 and clear	
Depth to Water (feet below top of casing):17.69					Total Depth (feet below top of casing): 38		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
11:03	1.4	7.52	1.6	61.9	3.17	18.8	136
11:06	1.4	7.42	1.53	51.1	0.35	22.1	128
11:09	1.4	7.39	1.52	52.8	0.32	22.2	123
11:12	1.4	7.39	1.53	54.8	0.30	22.3	118
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 11:14				Sampled by: Jim Lantowski			
Comments: Sample collected from 30.5' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-5S	Date: 4/19/02	Weather: 80 and clear
Depth to Water (feet below top of casing):9.08	Total Depth (feet below top of casing): 19.88	

Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
13:32	1.4	7.49	1.20	62.9	3.59	15.42	164
13:35	1.4	7.40	1.20	66.5	0.70	15.21	162
13:38	1.4	7.36	1.20	62.6	0.05	14.74	160
13:41	1.4	7.34	1.19	38.5	0	15.01	157
13:44	1.4	7.32	1.19	34.5	0	14.95	153
13:47	1.4	7.32	1.19	34.0	0	14.90	151
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv

Time sample collected: 13:50	Sampled by: Michael Manolakas
Comments: Sample collected from 15.0' btoc	

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-5D	Date: 14/19/02	Weather: 80 and clear
Depth to Water (feet below top of casing): 24.67		Total Depth (feet below top of casing): 44.85

Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
13.07	1.4	7.71	0.674	77.5	0.44	16.89	135
13:12	1.4	7.63	0.675	58.9	0	16.37	126
13:15	1.4	7.62	0.674	62.9	0	16.34	126
13:18	1.4	7.61	0.672	6.5	0	16.30	117
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv

Time sample collected: 13:20	Sampled by: Michael Manolakas
Comments: Sample collected from 35' btoc.	

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-6S			Date: 4/19/02			Weather: 80 and clear	
Depth to Water (feet below top of casing):6.55					Total Depth (feet below top of casing): 20		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
14:08		7.74	0.767	78.1	2.75	14.3	-135
14:11		7.64	0.746	73.9	0.52	14.7	-137
14:14		7.61	0.748	78.8	0.44	14.7	-138
14:17		7.61	0.449	78.9	0.43	14.7	-140
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 14:18				Sampled by: Jim Lantowski			
Comments: Sample collected at 15.0' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-6D			Date: 4/19/02			Weather: 75 and clear	
Depth to Water (feet below top of casing): 18.89					Total Depth (feet below top of casing): 43.36		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
14:12	1.4	7.69	0.626	20.5	2.10	15.25	177
14:15	1.4	7.66	0.621	22.5	0.0	14.85	173
14:18	1.4	7.66	0.620	19.8	0.0	14.8	169
14:21	1.4	7.65	0.618	20.1	0.0	14.78	166
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 14:24				Sampled by: Michael Manolakas			
Comments: Sample collected at 35' btoc							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-7S			Date: 4/19/02			Weather: 80 and clear	
Depth to Water (feet below top of casing): 8.59					Total Depth (feet below top of casing): 20		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
13:07	1.4	7.62	0.801	127	3.52	16.5	-88
13:10	1.4	7.41	0.736	81.6	0	17.9	-94
13:13	1.4	7.35	07.29	82.1	0	18.0	-94
13:16	1.4	7.32	0.730	76.5	0	18.1	-96
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 13:18				Sampled by: Jim Lantowski			
Comments: Sample collected from 12.5' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-7D			Date: 4/19/02			Weather: 80 clear	
Depth to Water (feet below top of casing): 13.44					Total Depth (feet below top of casing): 40.5		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
13:23	1.4	7.27	1.38	142	2.43	18.6	-115
13:26	1.4	7.29	1.33	150	0	20.6	-113
13:29	1.4	7.33	1.35	140	0	20.7	-110
13:32	1.4	7.34	1.36	141	0	20.6	-109
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 13:33				Sampled by: Jim Lantowski			
Comments: Sample collected from 33' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-8S	Date: 4/19/02	Weather: 80 clear
Depth to Water (feet below top of casing):	Total Depth (feet below top of casing):	

Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv

Time sample collected:	Sampled by:
Comments: Dry	

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-8D			Date: 4/19/02			Weather: 80 and clear	
Depth to Water (feet below top of casing): 19.76					Total Depth (feet below top of casing): 46.5		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
11:38		7.44	6.45	138	8.32	17.5	164
11:41		7.24	6.47	103	4.13	20.5	165
11:44		7.19	6.46	112.0	4.03	21.2	164
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 11:45				Sampled by: Jim Lantowski			
Comments: Sample collected at 38' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-9S	Date: 4/19/02	Weather: 85 and clear
Depth to Water (feet below top of casing):10.22	Total Depth (feet below top of casing): 19.5	

Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
11:04	1.4	7.20	1.39	52.4	1.47	14.63	214
11:12	1.4	6.96	1.39	32.8	0	13.83	174
11:15	1.4	6.94	1.39	32.1	0	13.87	165
11:18	1.4	6.93	1.39	30.6	0	13.88	164
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv

Time sample collected: 11:20	Sampled by: Michael Manolakas
Comments: Sample collected from 12.5' btoc.	

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-9D			Date: 4/119/02			Weather: 85 and clear	
Depth to Water (feet below top of casing): 11.61					Total Depth (feet below top of casing): 37.7		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
11:34	1.4	7.78	0.702	85.2	409	16.34	-274
Battery died restart							
12:12	1.4	7.8	0.688	86.9	0	15.26	-344
12:15		7.86	0.688	89.5	0	15.37	-351
12:18		7.86	0.690	90.8	0	15.36	-354
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 12:20				Sampled by: Michael Manolakas			
Comments: Sample collected 30' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-10S			Date: 4/19/02			Weather: 80 Clear	
Depth to Water (feet below top of casing):16.99					Total Depth (feet below top of casing): 20.5		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
10:33	1.4	7.17	3.98	101.0	7.36	18.1	147
10:36	1.4	7.15	3.98	80.3	0.20	17.6	147
10:39	1.4	7.13	3.98	78.3	0.20	17.5	142
10:42	1.4	7.11	3.98	75.3	0.18	17.5	138
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 10:44				Sampled by: Jim Lantowski			
Comments: Sample collected at 19' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-10D			Date: 4/19/02			Weather: 80 and clear	
Depth to Water (feet below top of casing): 17.93					Total Depth (feet below top of casing): 38		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
10:16	1.4	7.10	3.75	17.7	2.12	17.7	165
10:19	1.4	7.05	3.69	17.4	0	17.6	155
10:22	1.4	7.04	3.75	18.1	0	17.6	148
10:25	1.4	7.03	3.33	18.0	0	17.5	147
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 10:27				Sampled by: Jim Lantowski			
Comments: Sample collected at 30' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-11S	Date: 4/19/02	Weather: Clear, 80
Depth to Water (feet below top of casing):17.89	Total Depth (feet below top of casing): 20.42	

Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
8:59	1.4	6.6	2.6	12.6	9.17	15.01	280
9:02		6.88	2.67	5.5	2.59	15.02	264
9:06		7.00	2.67	4.8	1.85	14.90	256
9:09		7.06	2.70	4.6	1.78	14.67	247
9:12		7.09	2.70	4.3	1.29	14.54	242
9:15		7.11	2.72	4.4	1.35	14.50	240
9:18		7.13	2.74	4.4	1.19	14.52	230
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv

Time sample collected: 9:19	Sampled by: Michael Manolakas
Comments: Sample collected 19' btoc.	

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-11D			Date: 4/19/02			Weather: Clear 80	
Depth to Water (feet below top of casing): 18.97					Total Depth (feet below top of casing): 35.04		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
9:35	1.4	7.30	2.75	33	0	15.21	245
9:40		7.32	2.73	34.5	0	15.8	240
9:43		7.33	2.73	32.3	0	15.24	323
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 9:45				Sampled by: Michael Manolakas			
Comments: Sample depth 29' bg							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-12			Date: 4/19/02			Weather: 80 clear	
Depth to Water (feet below top of casing): 20.07					Total Depth (feet below top of casing): 30.5		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
8:46	1.4	6.73	5.04	167	2.05	15.5	181
8:49		6.89	5.01	170.0	0.45	16.4	177
8:52		6.94	5.01	114.0	0.21	16.4	173
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 8:54				Sampled by: Jim Lantowski			
Comments: Sample collected at 23' btoc							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-13			Date: 4/19/02			Weather: 80 and clear	
Depth to Water (feet below top of casing): 22.13					Total Depth (feet below top of casing): 30		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
9:11	1.4	7.33	2.66	466	12.07	15.5	166
9:14		7.30	2.71	390	9.06	15.6	166
9:17		7.25	2.71	677	7.97	16.8	167
9:20		7.25	2.71	446	8.01	16.7	167
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 9:21				Sampled by: Jim Lantowski			
Comments: Sample collected from 25' btoc.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-14S	Date: 4/19/02	Weather: 85 clear
Depth to Water (feet below top of casing):	Total Depth (feet below top of casing):	

Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv

Time sample collected:	Sampled by:
Comments: Dry	

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

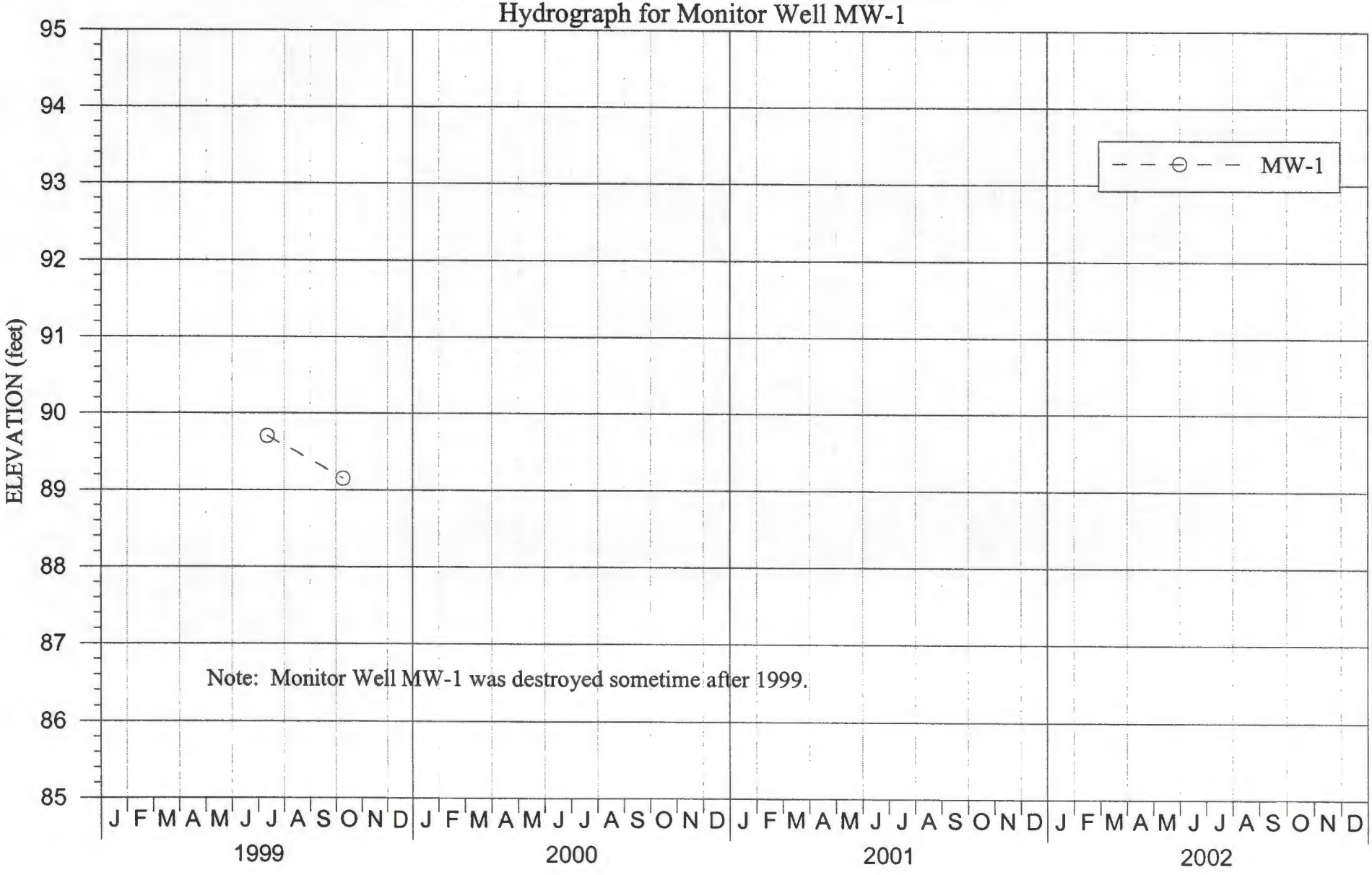
SONY ELECTRONICS INC.
542 ROUTE 303
ORANGETOWN, NEW YORK
LOW FLOW LOW STRESS SAMPLING

Well: MW-14D			Date: 4/19/02			Weather: 85 clear	
Depth to Water (feet below top of casing):19.09					Total Depth (feet below top of casing): 37.1		
Time	Evacuation Rate (ml/min)	pH	Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temperature (°C)	Oxygen Reduction Potential (mv)
10:10	1.4	7.25	2.35	101	1.75	18.16	234
10:13		7.25	2.37	72.7	0	17.52	226
10:18		7.25	2.37	60.8	0	17.68	213
10:21		7.25	2.37	56.0	0	17.59	206
10:24		7.25	2.38	57.1	0	17.59	205
Stabilization Criteria		+/0.1	+/- 3 %	+/10%	+/-10%	+/- 3%	+/10 mv
Time sample collected: 10:26				Sampled by: Michael Manolakas			
Comments: Sample collected from 30' bg.							

ORP	Oxidation Reduction Potential	mg/l	Milligram (parts per million)	µS/cm	Micro siemen per centimeter
C	Celsius	mv	Millivolt	ml/min	Milliliter per minute

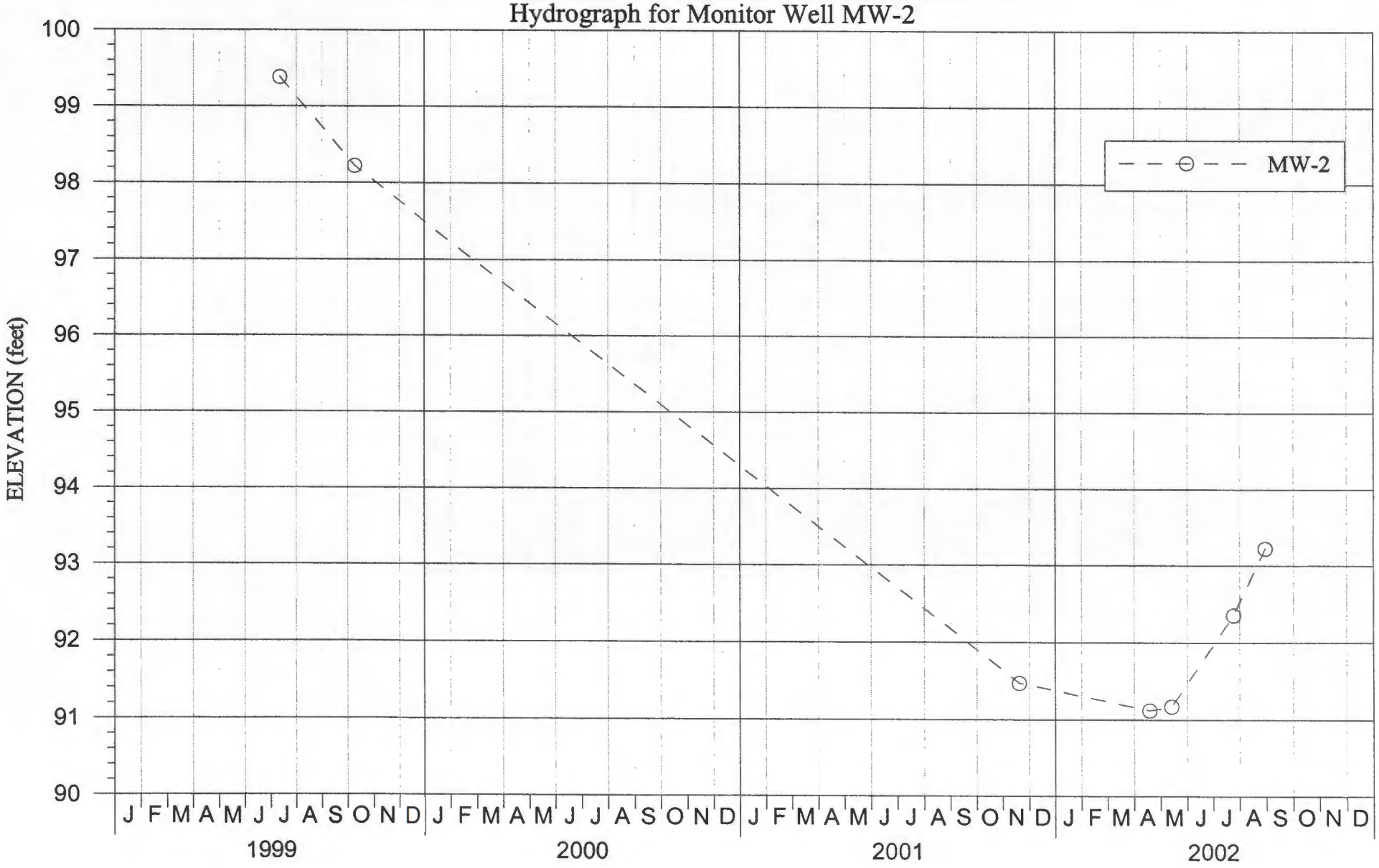
APPENDIX VI
HYDROGRAPHS

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK



Leggette, Brashears & Graham, Inc.

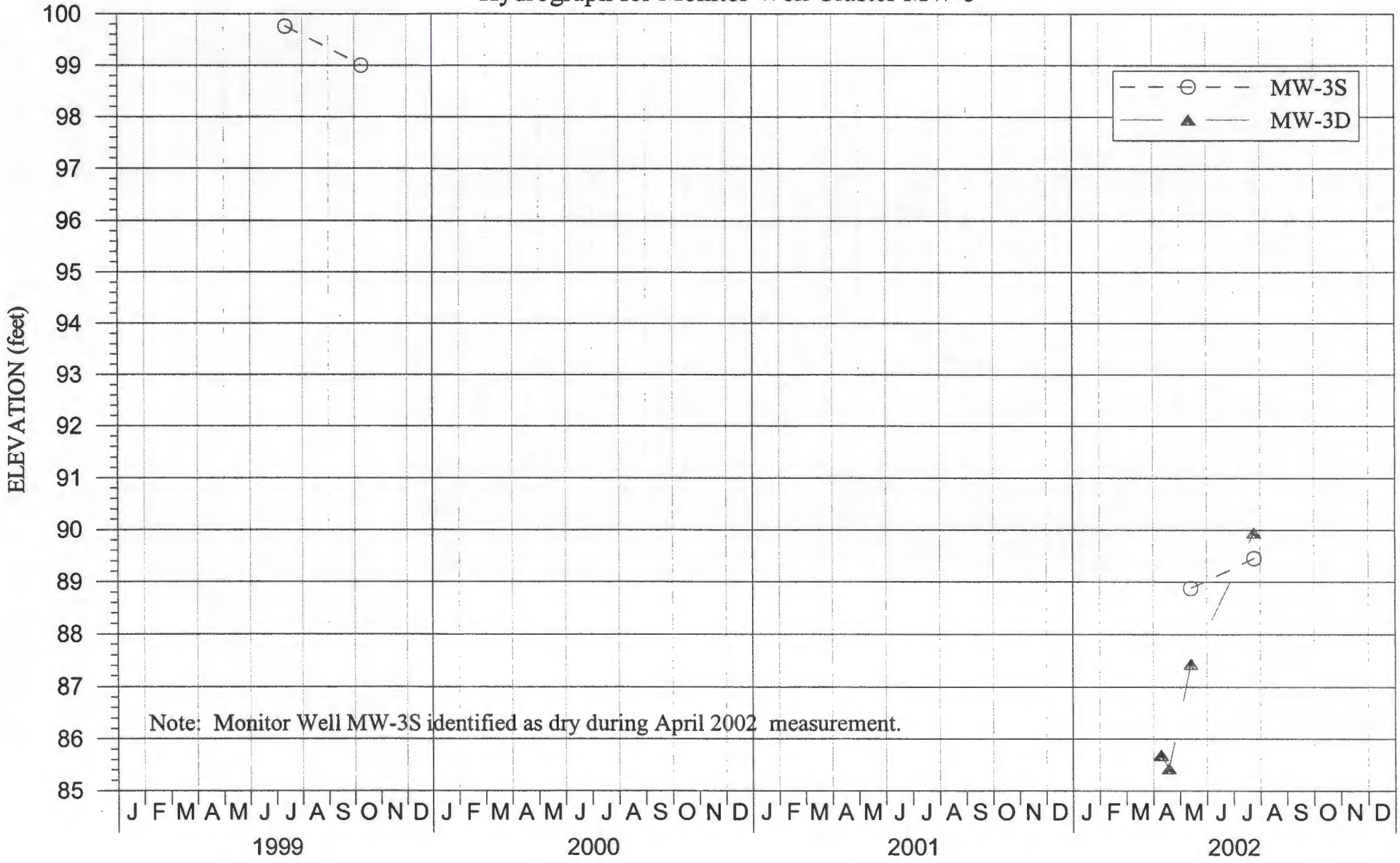
MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

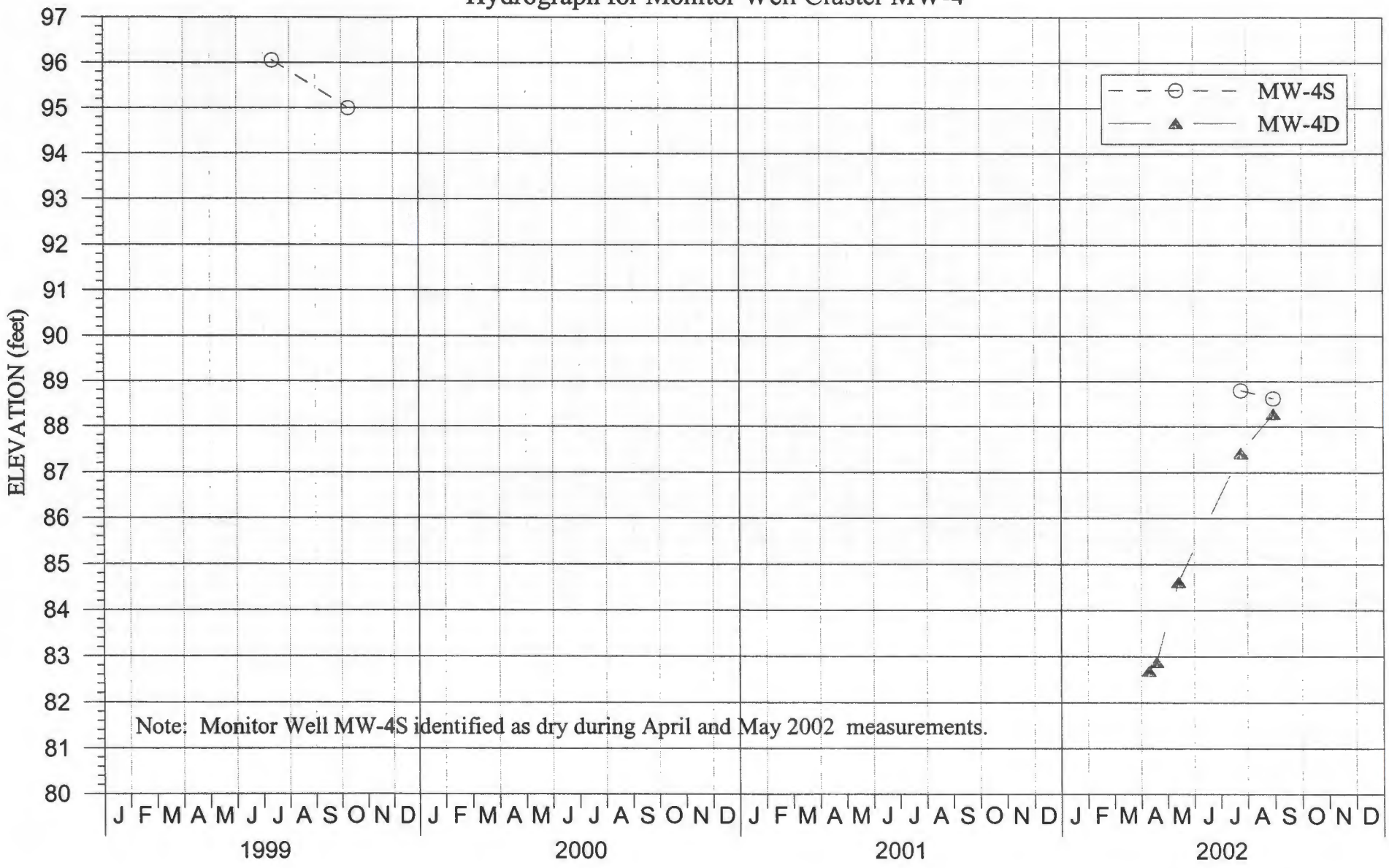
Hydrograph for Monitor Well Cluster MW-3



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

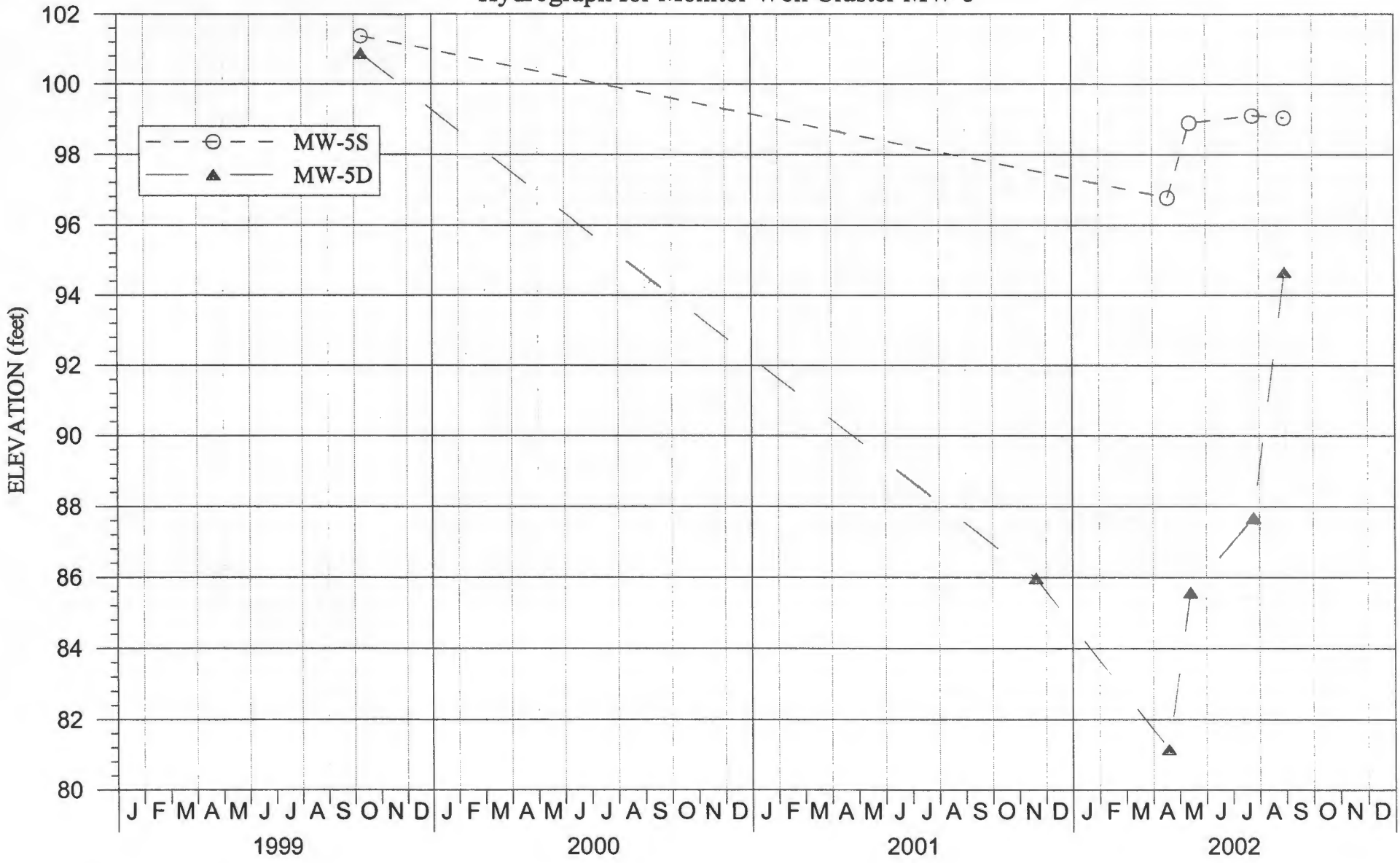
Hydrograph for Monitor Well Cluster MW-4



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

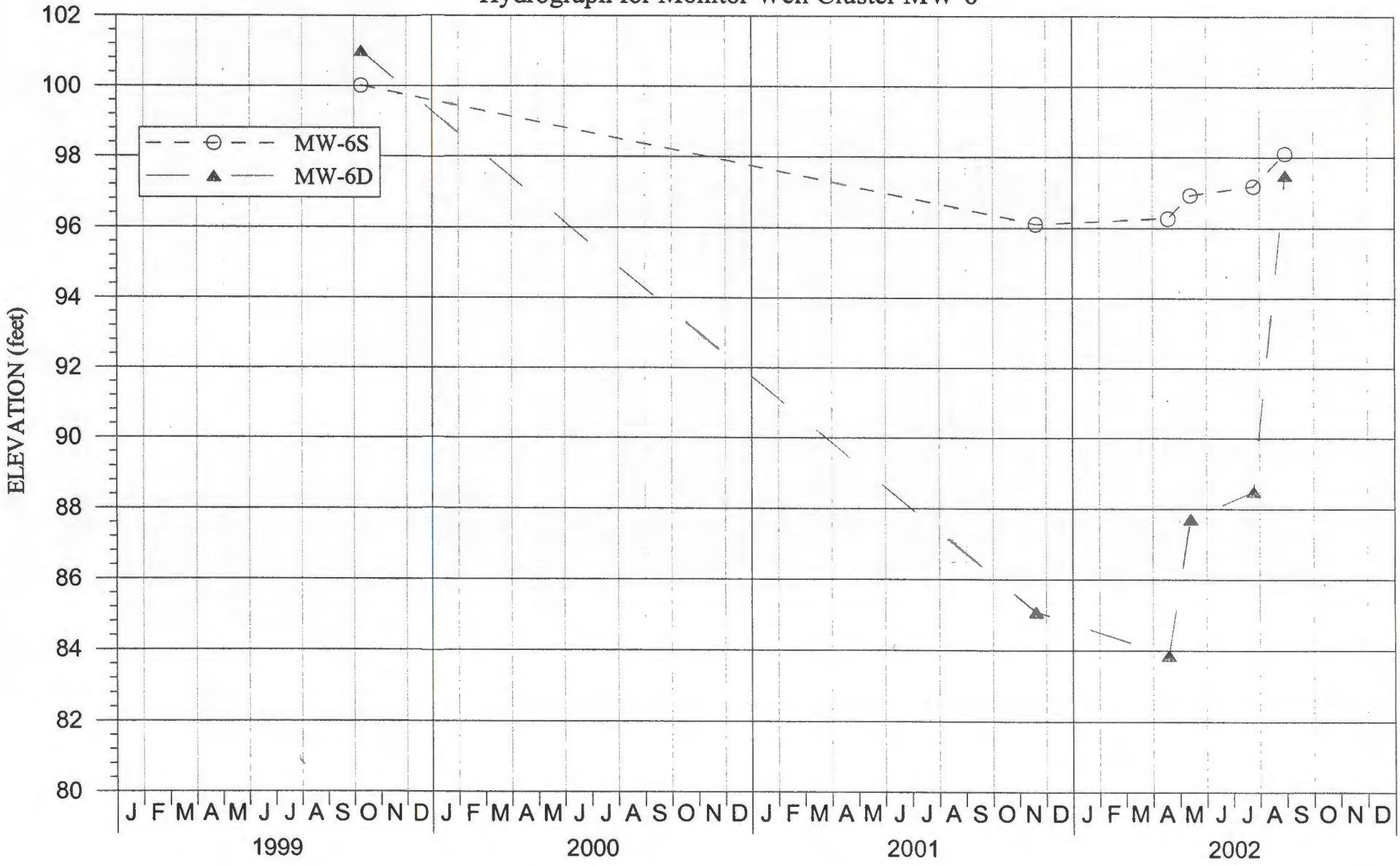
Hydrograph for Monitor Well Cluster MW-5



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

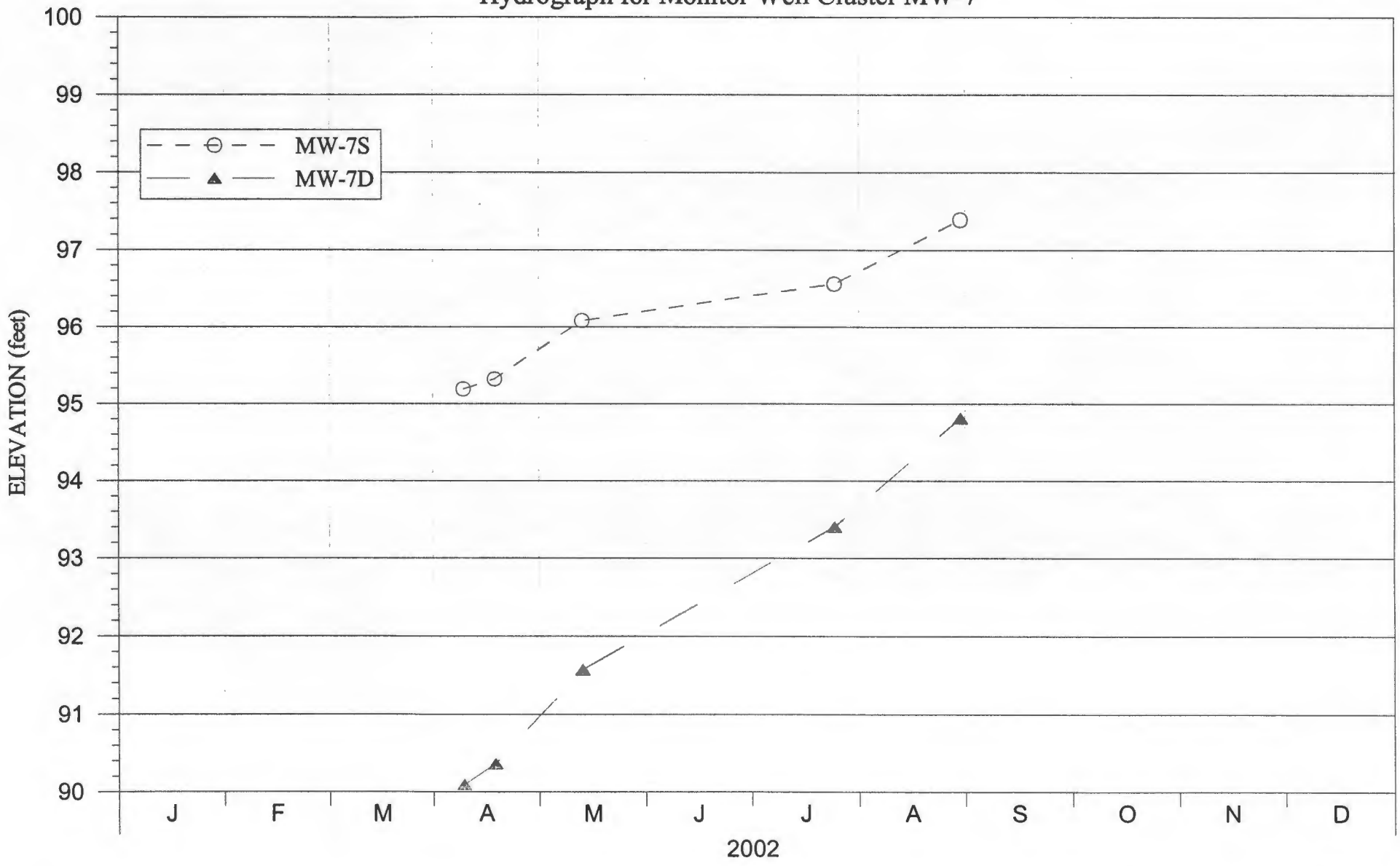
Hydrograph for Monitor Well Cluster MW-6



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

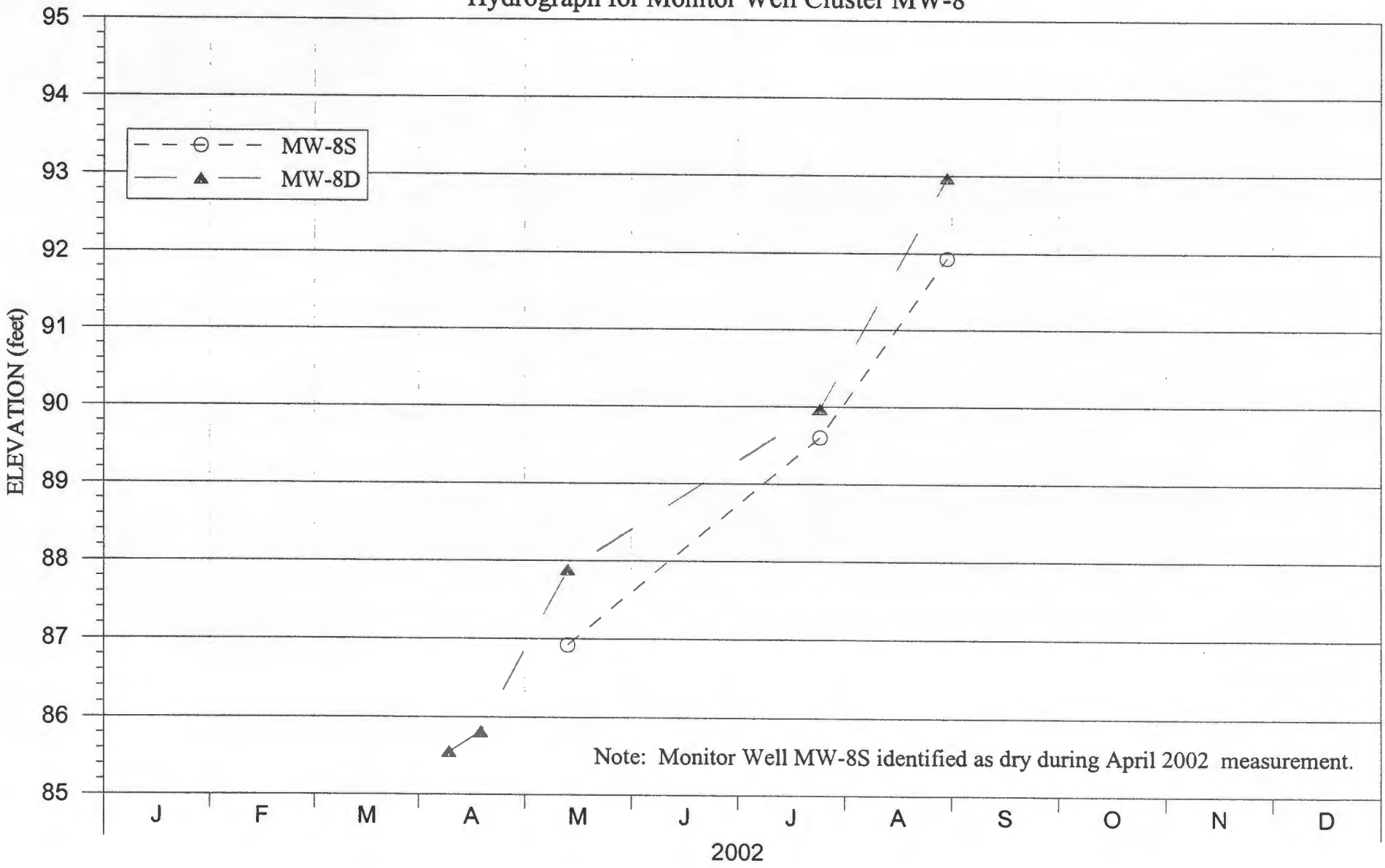
Hydrograph for Monitor Well Cluster MW-7



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

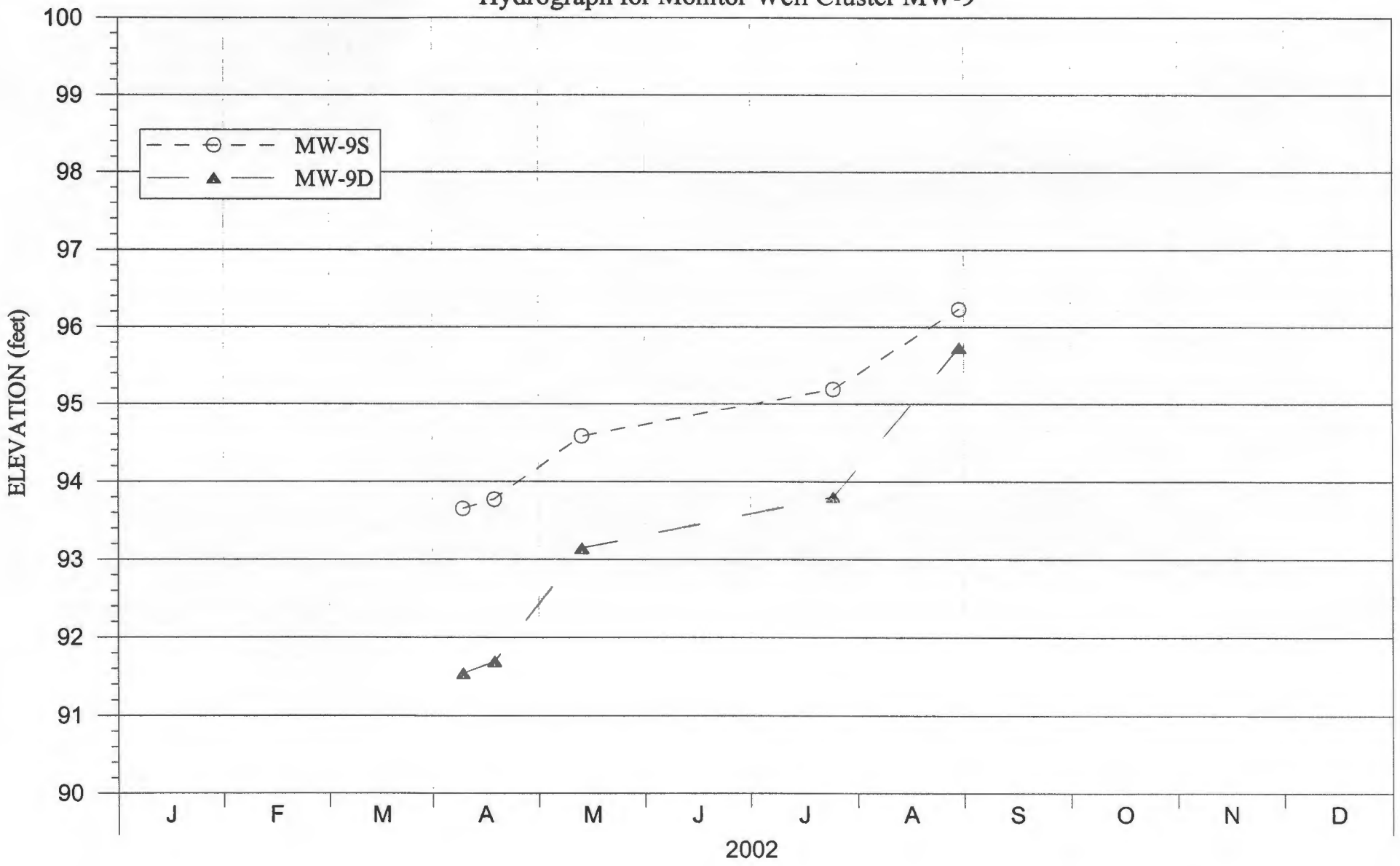
Hydrograph for Monitor Well Cluster MW-8



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

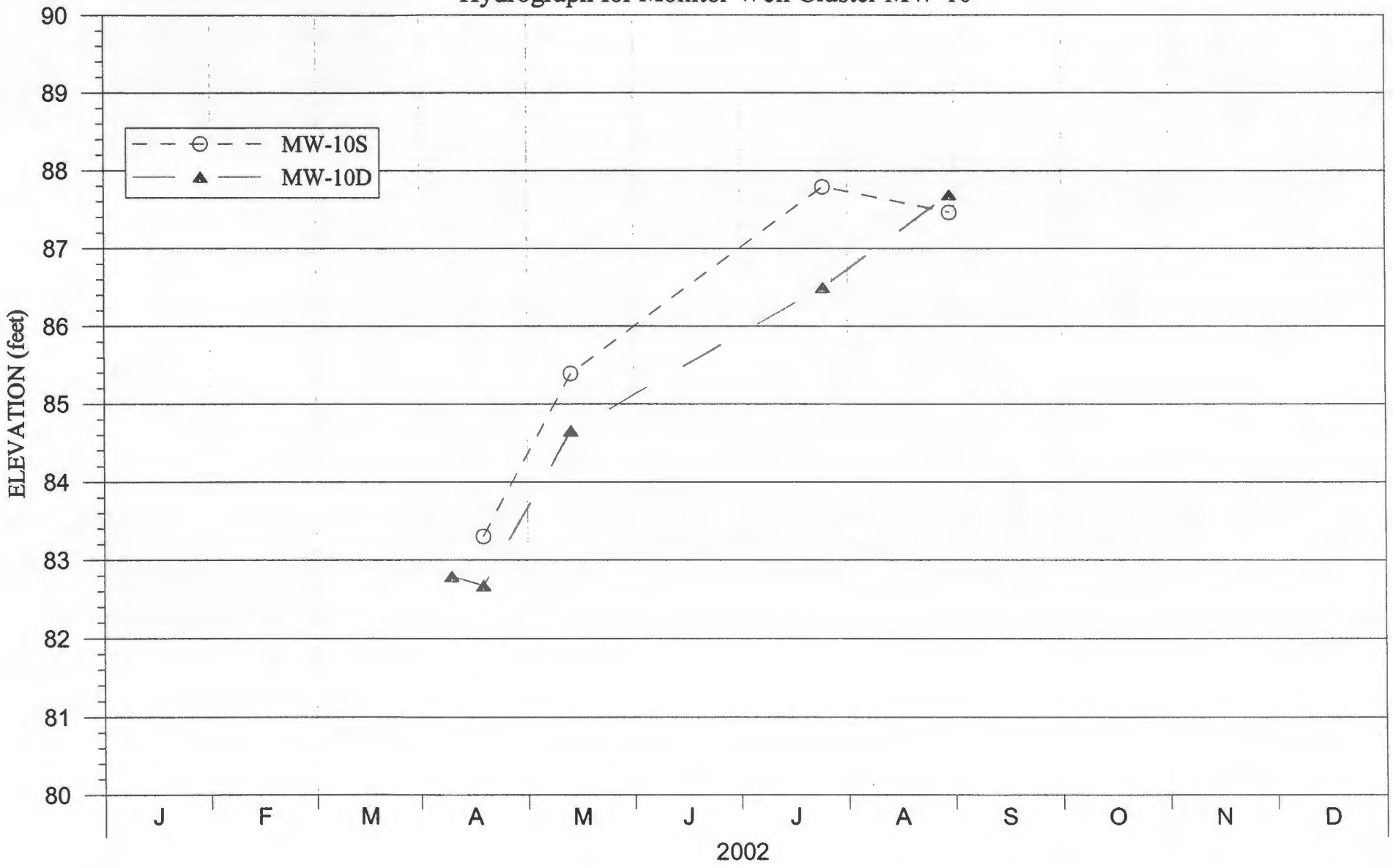
Hydrograph for Monitor Well Cluster MW-9



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

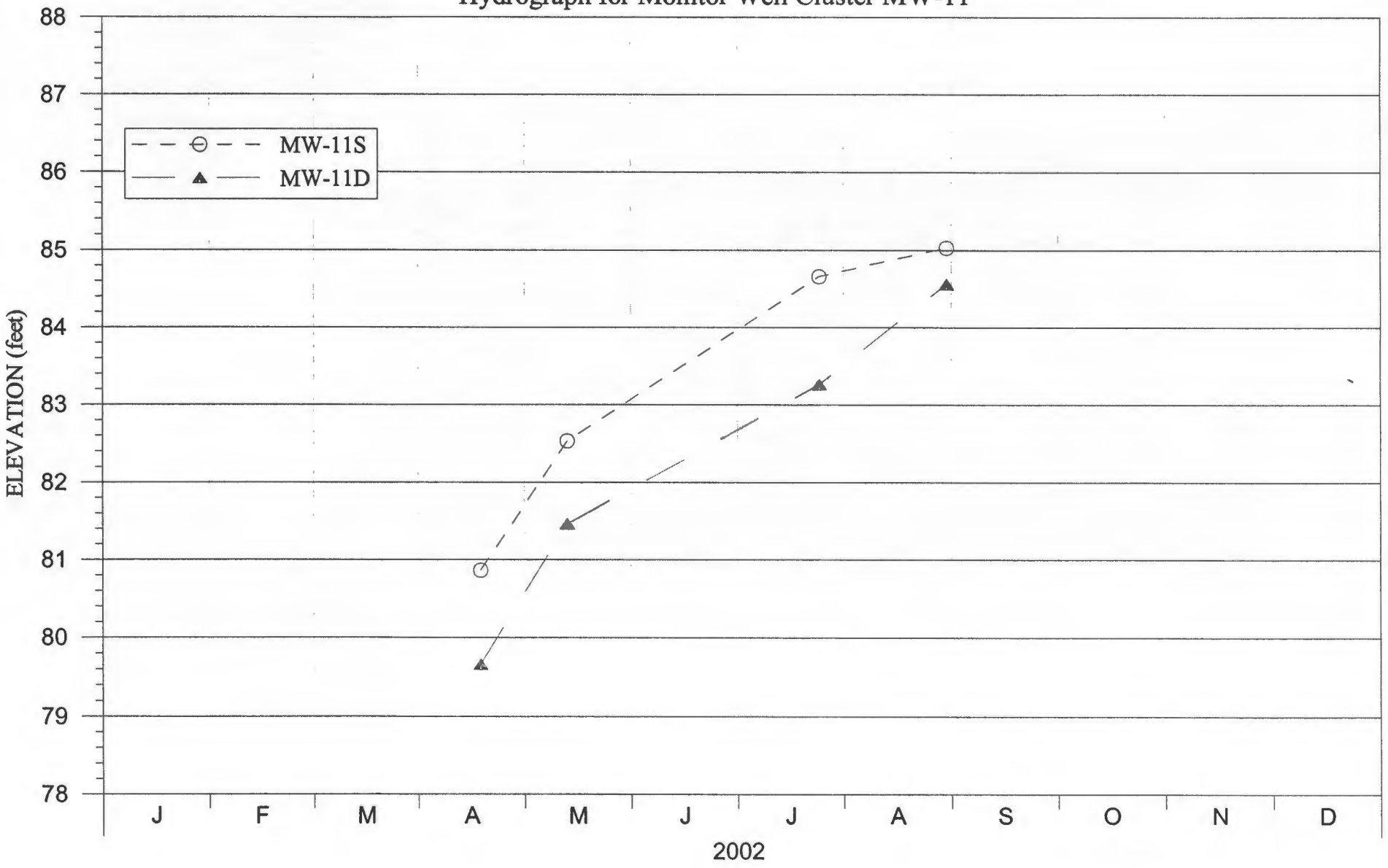
Hydrograph for Monitor Well Cluster MW-10



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

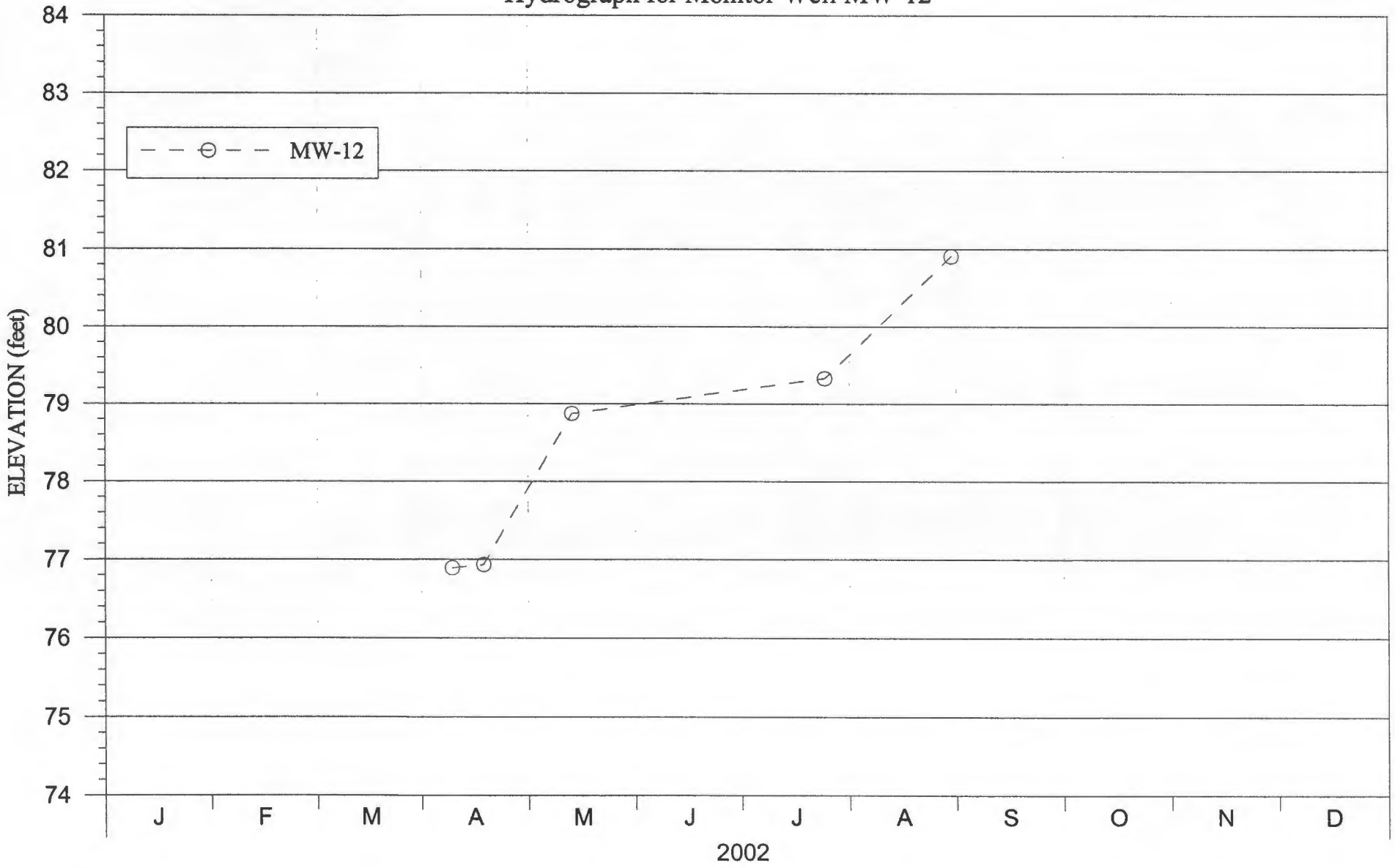
Hydrograph for Monitor Well Cluster MW-11



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

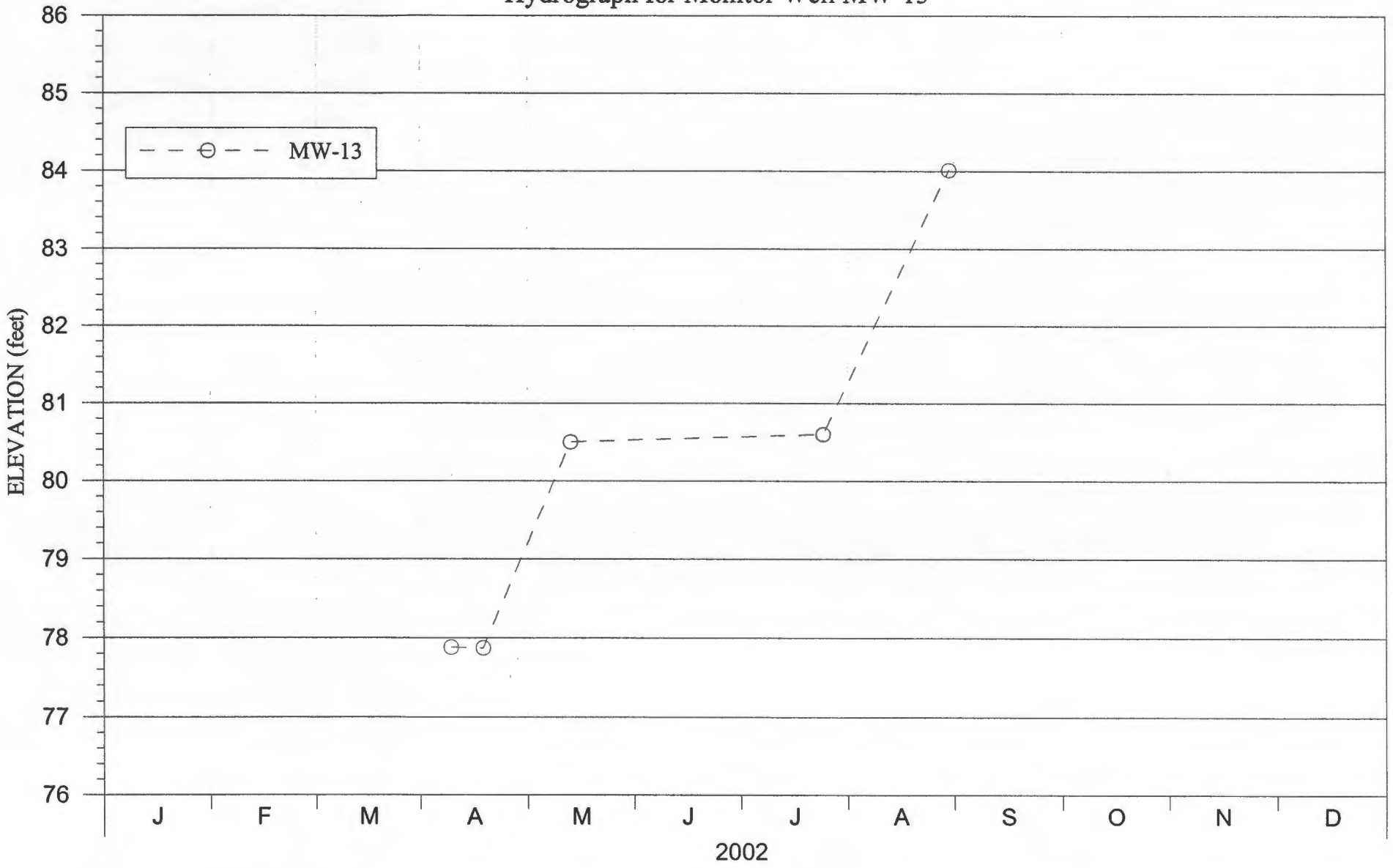
Hydrograph for Monitor Well MW-12



Leggette, Brashears & Graham, Inc.

MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

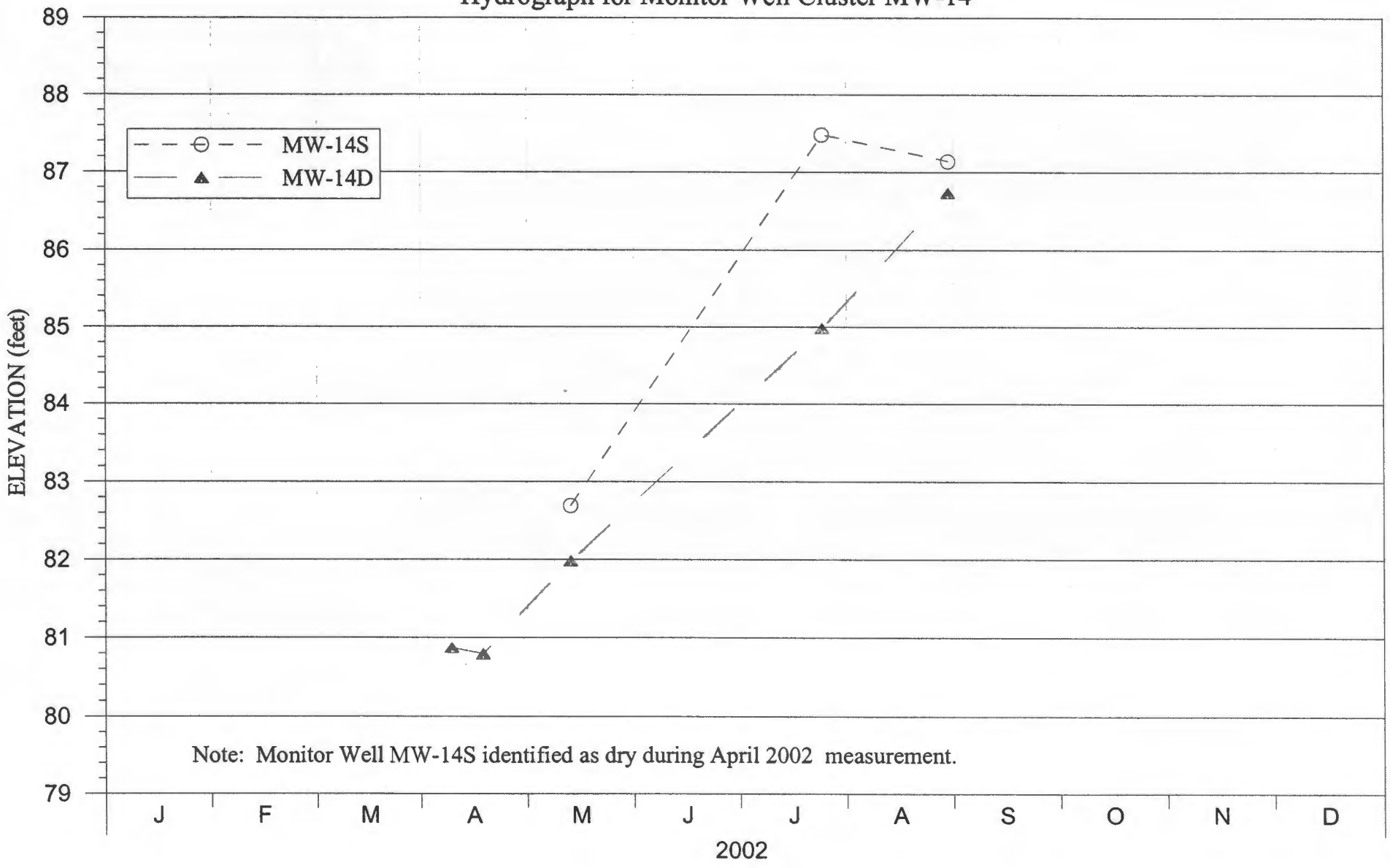
Hydrograph for Monitor Well MW-13



Leggette, Brashears & Graham, Inc.

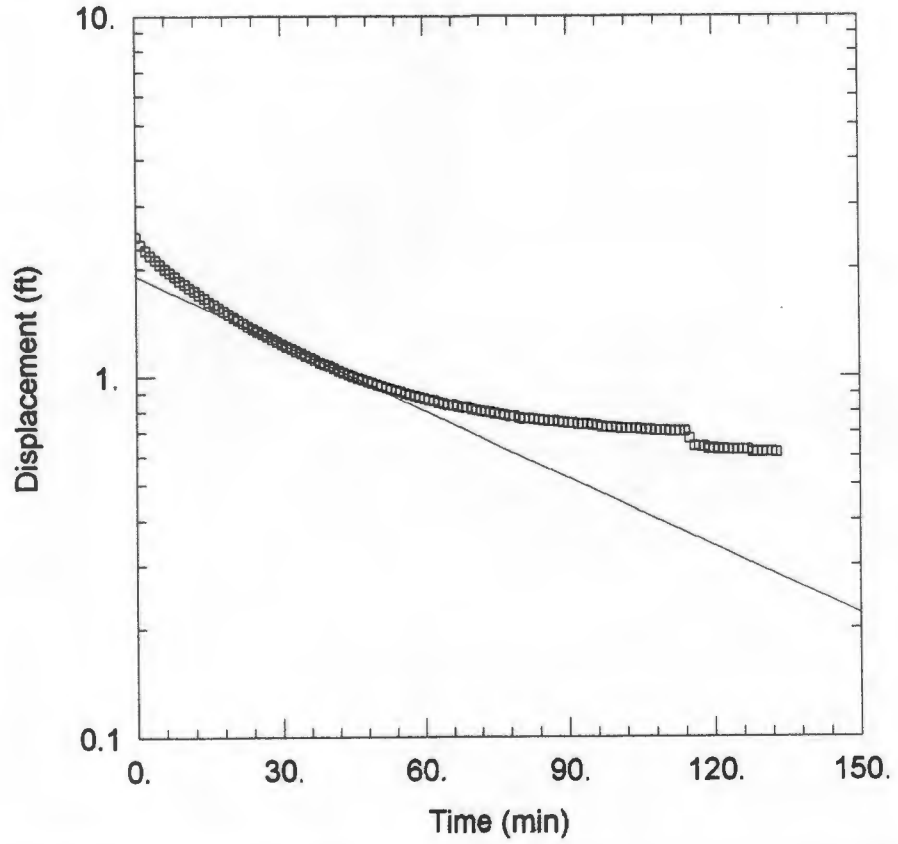
MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

Hydrograph for Monitor Well Cluster MW-14



Leggette, Brashears & Graham, Inc.

APPENDIX VII
SLUG TEST RESULTS



WELL TEST ANALYSIS

Data Set: H:\...\MW-5D.aqt
Date: 10/14/02 Time: 08:43:08

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.06676 ft/day
y0 = 1.9 ft

AQUIFER DATA

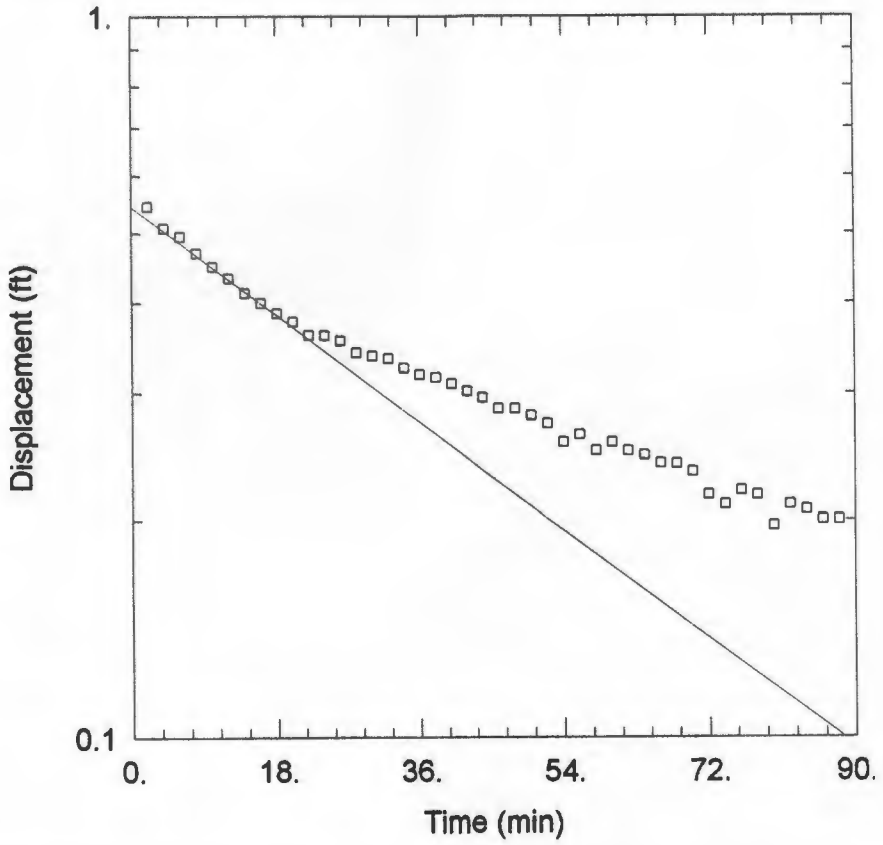
Saturated Thickness: 30.94 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-5D)

Initial Displacement: 2.454 ft
Casing Radius: 0.083 ft
Screen Length: 20. ft

Water Column Height: 30.94 ft
Wellbore Radius: 0.281 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: H:\...\MW-13.aqt
Date: 10/14/02 Time: 08:42:56

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.07864 ft/day
y0 = 0.5434 ft

AQUIFER DATA

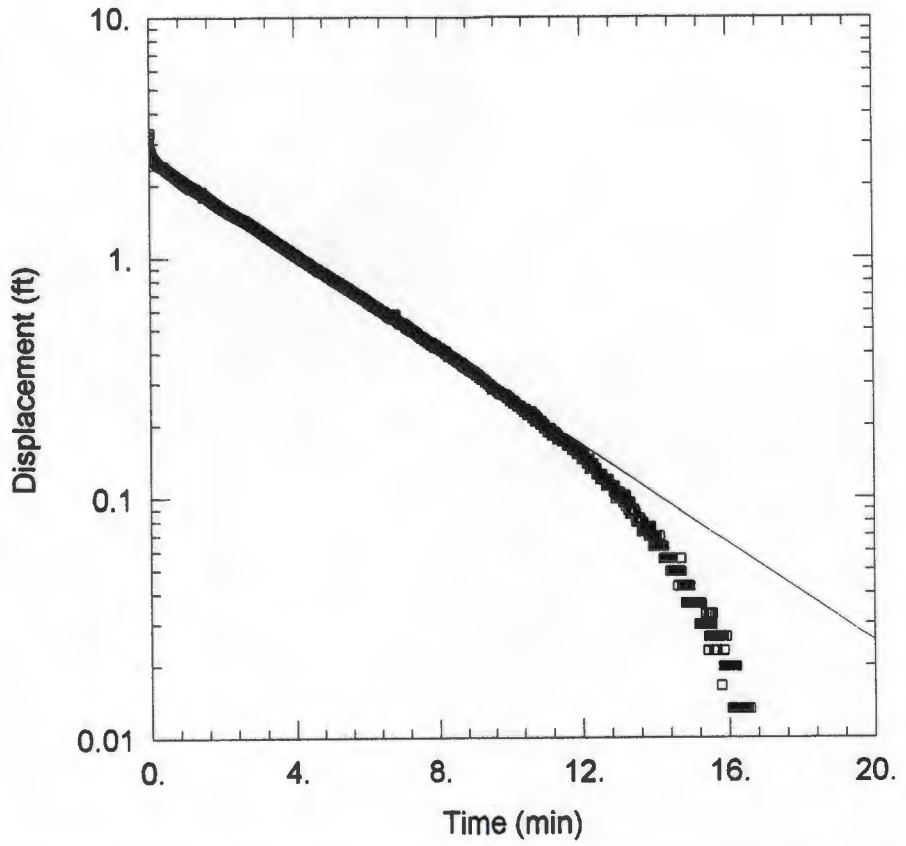
Saturated Thickness: 14.09 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-13)

Initial Displacement: 1.621 ft
Casing Radius: 0.083 ft
Screen Length: 15. ft

Water Column Height: 14.09 ft
Wellbore Radius: 0.281 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: H:\...\MW-8D(9-4-02).aqt
Date: 10/14/02 Time: 08:43:25

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.366 ft/day
y0 = 2.764 ft

AQUIFER DATA

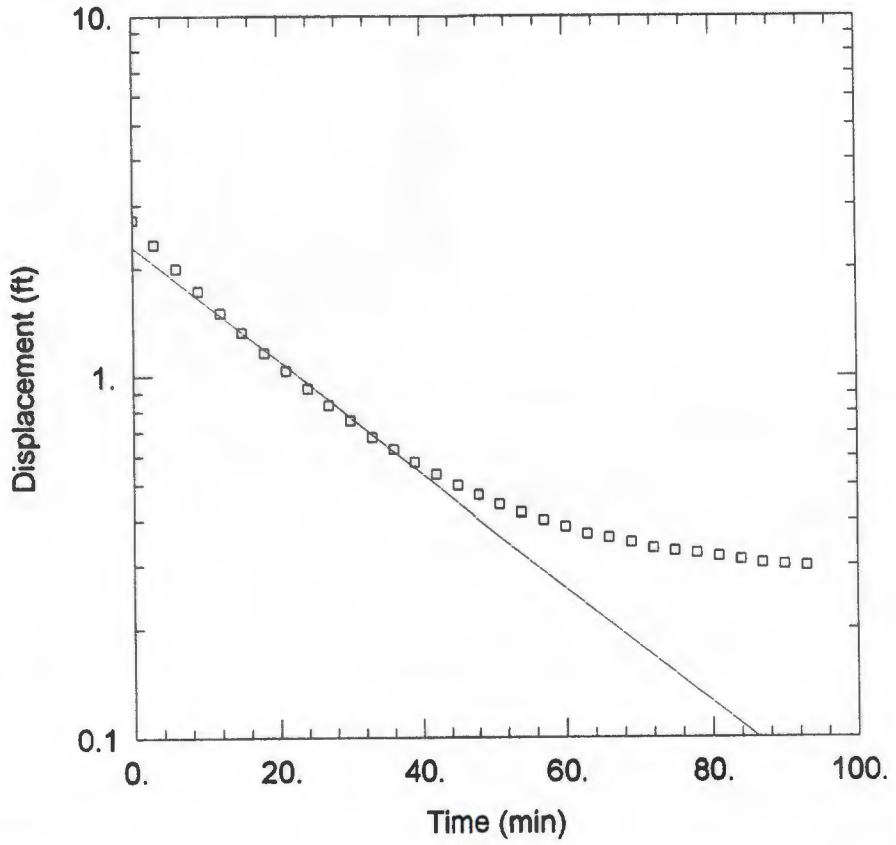
Saturated Thickness: 34.77 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-8D)

Initial Displacement: 3.206 ft
Casing Radius: 0.083 ft
Screen Length: 16. ft

Water Column Height: 34.77 ft
Wellbore Radius: 0.281 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: H:\...\MW-9Dmyopinion.aqt
Date: 10/14/02 Time: 08:44:10

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.2248 ft/day
y0 = 2.29 ft

AQUIFER DATA

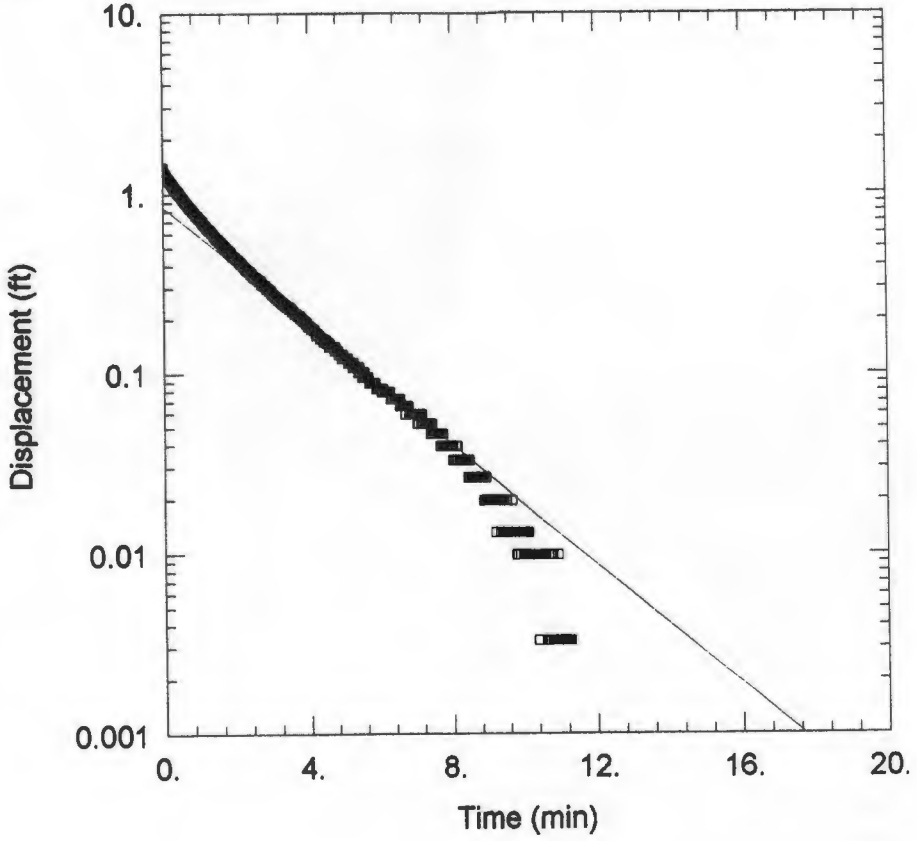
Saturated Thickness: 35. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-9D)

Initial Displacement: 2.73 ft
Casing Radius: 0.083 ft
Screen Length: 15. ft

Water Column Height: 35. ft
Wellbore Radius: 0.281 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: H:\...\MW-11D.aqt
Date: 10/14/02 Time: 08:42:26

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.223 ft/day
y0 = 0.8501 ft

AQUIFER DATA

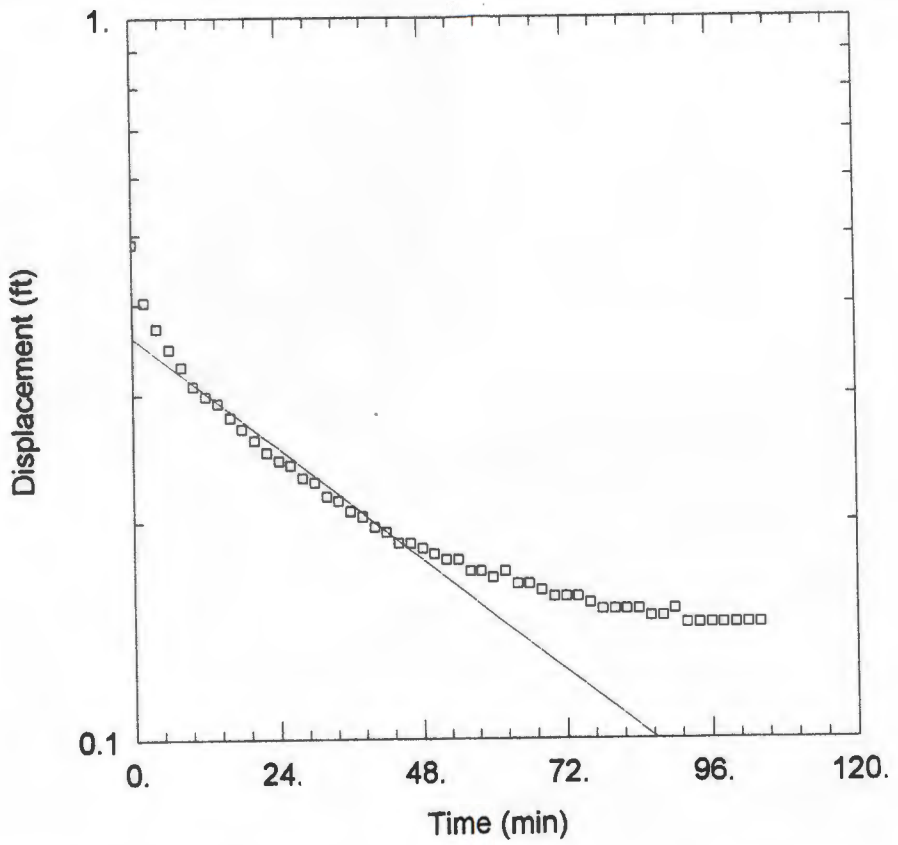
Saturated Thickness: 21.11 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-11D)

Initial Displacement: 1.398 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft

Water Column Height: 21.11 ft
Wellbore Radius: 0.281 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: H:\...\MW-12.aqt
Date: 10/14/02 Time: 08:42:45

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.05969 ft/day
y0 = 0.3603 ft

AQUIFER DATA

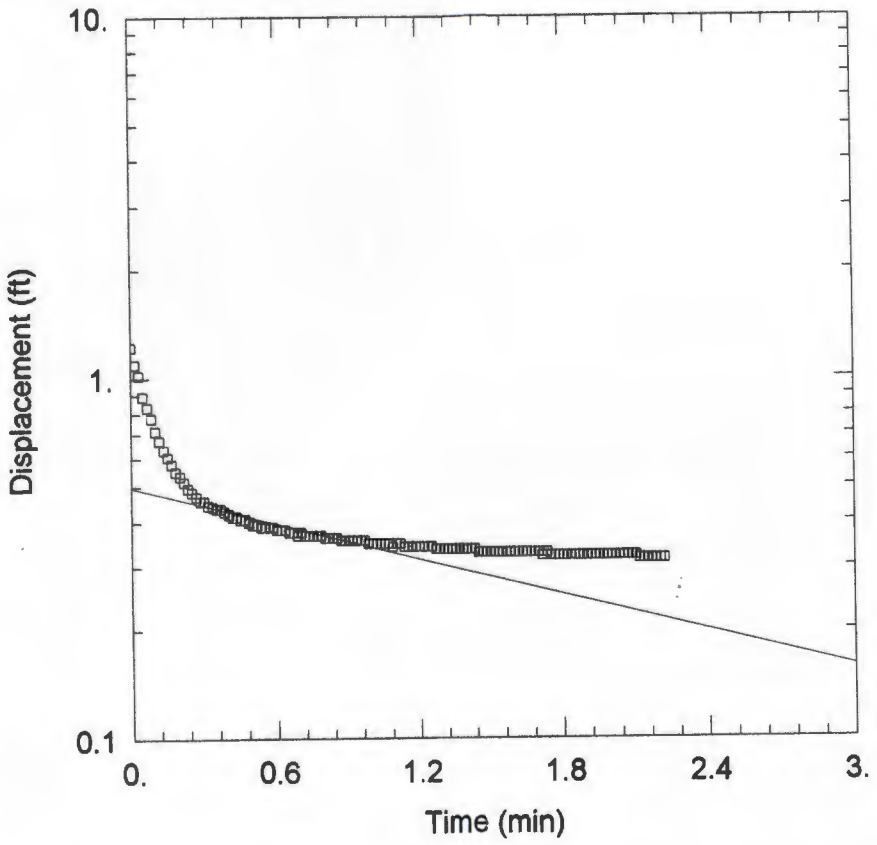
Saturated Thickness: 13.02 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-12)

Initial Displacement: 0.4856 ft
Casing Radius: 0.083 ft
Screen Length: 15. ft

Water Column Height: 13.02 ft
Wellbore Radius: 0.281 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: H:\...\MW-8S(ii).aqt
Date: 10/14/02 Time: 08:43:46

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.376 ft/day
y0 = 0.496 ft

AQUIFER DATA

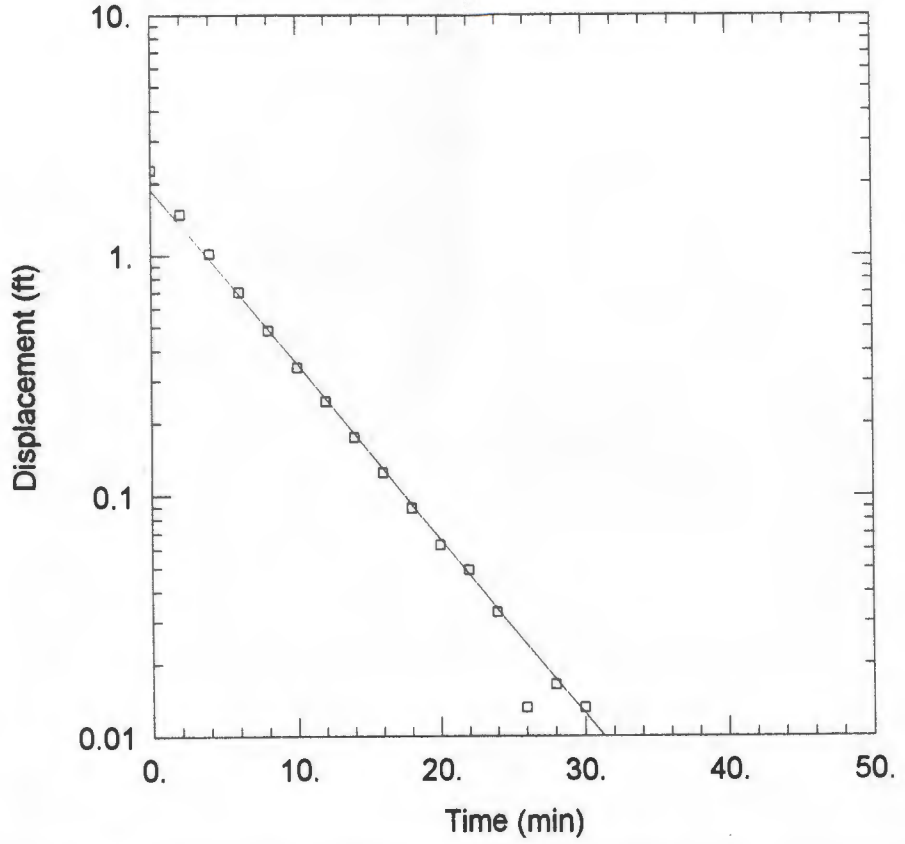
Saturated Thickness: 8.195 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-8S)

Initial Displacement: 1.224 ft
Casing Radius: 0.083 ft
Screen Length: 15. ft

Water Column Height: 8.195 ft
Wellbore Radius: 0.281 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: H:\...\MW-8D.aqt
Date: 10/14/02 Time: 08:43:36

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.9706 ft/day
y0 = 1.88 ft

AQUIFER DATA

Saturated Thickness: 33.72 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-8D)

Initial Displacement: 2.257 ft
Casing Radius: 0.083 ft
Screen Length: 16. ft

Water Column Height: 33.72 ft
Wellbore Radius: 0.281 ft
Gravel Pack Porosity: 0.3