January 2007

Remedial Investigation Report

Environmental Restoration Project
Clean Water/Clean Air Bond Act of 1996

ERP Site #E-447036
Clinton South Parking Lot
314 Clinton Street
City of Schenectady
Schenectady County, New York

Prepared for:

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ENVIRONMENTAL RESTORATION PROJECT
REMEDIAL INVESTIGATION REPORT
CLINTON SOUTH PARKING LOT – 314 CLINTON STREET
CITY OF SCHENECTADY, NEW YORK

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APPENDICES

EXHIBITS

1.0 INTRODUCTION

The Schenectady Metroplex Development Authority (Metroplex) and the City of Schenectady (City) entered a State Assistance Contract (SAC) with the New York State Department of Environmental Conservation (DEC) pursuant to the NYS Environmental Restoration Program (ERP) with regard to the investigation of the Clinton South Parking Lot, located at 314 Clinton Street (the Site). The Site is currently owned by the City of Schenectady and leased and operated by Metroplex. A Site Location Map is provided as Figure 1 in this report.

To assist Metroplex and the City in the successful completion of the project, C.T. Male Associates, P.C. (C.T. Male) was retained to complete the technical aspects of the project in accordance with the New York State Department of Environmental Conservation (NYSDEC) December 2002 "Draft DER-10 Technical Guidance for Site Investigation and Remediation". The Draft DER-10 sets forth the administrative and technical requirements for the completion of site investigation and/or site remediation.

The Remedial Investigation (RI) was completed in substantial accordance with the Remedial Investigation/Alternatives Analysis (RI/AA) Work Plan for the Site, dated April 7, 2006, as prepared by C.T. Male for Metroplex and the City of Schenectady. The RI/AA Work Plan was reviewed and subsequently approved by the NYSDEC on April 26, 2006. The NYSDEC approval letter for the Work Plan is presented as Exhibit 1. Deviations from the Work Plan consisted of the following:

- The fourth proposed deep boring/well was eliminated, based on the preliminary findings at the other three deep boring/well locations. NYSDEC concurrence with this action was documented in its June 8, 2006 correspondence, included in Exhibit 1.

- A groundwater sample was not collected from monitoring well CTM-8 due to subsurface damage to the well or an unidentified obstruction in the well. Upon discovery of the damage/obstruction, C.T. Male and NYSDEC agreed that the groundwater sampling results from the other wells would be evaluated, and if deemed necessary, well CTM-8 would be reinstalled and sampled.

presented on the Subsurface Exploration Logs in Appendix A. Recovered soil samples were screened for the presence of volatile organic compound vapors using a photoionization detector (PID). The PID screening results are presented on the Organic Vapor Headspace Analysis Logs in Appendix B. One soil sample from each test boring was retained for laboratory analysis, based in part on headspace screening results and organoleptic perception of suspect contamination. A total of 16 soil samples (including a duplicate sample collected from GP-8) were submitted to the laboratory of record for analyses for TCL volatile and semi-volatile organic compounds, PCBs and pesticides, and TAL metals. These test borings were converted to permanent 1-inch diameter PVC monitoring wells (identified as CTM-1 through CTM-15). Each monitoring well was protected with a flush-mounted curb box with bolt down cover. Monitoring well construction details are provided in Appendix C.

The three remaining test borings (CTM-16 through CTM-18) were advanced using hollow-stem auger methods. These borings were advanced through the silty-sand unit to the underlying silty-clay unit, encountered at depths ranging from 99 to 104 feet below grade. During advancement of CTM-16, soil samples were collected at continuous two-foot intervals for soil classification and PID screening. During advancement of CTM-17 and CTM-18, soil samples were collected at two-foot intervals every 5 feet. Soil samples were collected and handled in accordance with the procedures outlined in the RI/AA Work Plan. Test borings CTM-16 through CTM-18 were converted to permanent 2-inch diameter PVC monitoring wells, each with a 10-foot section of well screen, situated just above the silty-sand/silty-clay interface. Each monitoring well was protected at the surface with a flush-mounted curb box, set in concrete, with a bolt-down cover. Monitoring well construction details are provided in Appendix D.

QA/QC samples were collected during the soil boring sampling event, as follows.

- One equipment blank was collected of the split spoon sampling barrel prior to the collection of GP-11 (4-6').
- One duplicate sample was collected of GP-8 (10-12' bgs).
- MS/MSD analyses were performed on sample GP-7 (4-8').

Table 3.5.1-1 provides a summary of the boring and monitoring well identification numbers, boring depths, depths at which the monitoring wells were set, monitoring well screened interval depths, and the depth from which soil samples were collected for laboratory analysis.

TABLE 3.5.1-1: Soil Boring and Monitoring Well Summary

Boring ID	Monitoring Well ID	Boring Depth (bgs)	MW Depth	MW Screened Interval	Soil Sample Depth
GP-1	CTM-1	16′	15′	5 to 15′	6 to 8′
GP-2	CTM-2	16′	15′	5 to 15′	6 to 8′
GP-3	CTM-3	16′	15′	5 to 15′	6 to 8′
GP-4	CTM-4	16′	15′	5 to 15′	4 to 6′
GP-5	CTM-5	20′	20′	10 to 20′	10 to 12′
GP-6	CTM-6	20′	20′	10 to 20′	10 to 12
GP-7	CTM-7	16′	15′	5 to 15′	4 to 8′
GP-8	CTM-8	20′	20′	10 to 20′	10 to 12′
GP-9	CTM-9	20′	20′	10 to 20′	10 to 12′
GP-10	CTM-10	20′	20′	10 to 20′	10 to 12′
GP-11	CTM-11	16′	15′	5 to 15′	4 to 6′
GP-12	CTM-12	16′	15′	5 to 15′	4 to 8′
GP-13	CTM-13	20′	20′	10 to 20′	10 to 12′
GP-14	CTM-14	20′	20′	10 to 20′	12 to 14′
GP-15	CTM-15	20′	20′	10 to 20′	8 to 10′
CTM-16	CTM-16	104′	102′	92 to 102′	NA
CTM-17	CTM-17	104′	102′	92 to 102′	NA
CTM-18	CTM-18	99′	97′	87 to 97′	NA

Notes: bgs denotes below ground surface
NA denotes not applicable/no soil sample submitted for analysis

3.5.2 Dust Monitoring

During Geoprobe and hollow-stem auger drilling activities, C.T. Male utilized two TSI DustTRAK real-time particulate monitors, capable of continuously measuring concentrations of airborne dust, smoke, mists, haze, and fumes. These instruments are capable of detecting particles from 0.1 to 10 micrometers in size, and are capable of providing real-time data, and 15-minute time-weighted average exposure measurements. The instruments were placed on tripods located at temporary monitoring stations, selected each day based on the prevailing wind direction, one upwind and one downwind of the work area. Dust monitoring equipment was calibrated by the supplier and was zeroed in the field prior to each day's use. Based on field observations, little to no visible dust was generated during the course of Geoprobe and hollow-stem auger drilling activities, and dust monitoring data indicated that established action levels were not exceeded.

3.5.3 Well Development and Groundwater Sampling

During the week of May 22, 2006, wells CTM-1 through CTM-15 were developed, using pumping and surging methods, to restore hydraulic connection with the surrounding formation. Each well was developed until a minimum of five well volumes of water were removed or until the well was dry. During the week of June 5, 2006, wells CTM-16, CTM-17 and CTM-18 were developed using a submersible pump. Each well was developed until a minimum of five well volumes of water were removed. Well development water was pumped into 5-gallon buckets and then transferred to 55-gallon drums which were labeled and stored on site, pending proper disposal arrangements.

During the period of June 7-12, 2006, C.T. Male conducted groundwater monitoring activities on the site, including measurement of water levels and collection of groundwater samples. Also during this period, C.T. Male surveyed the monitoring well and surface soil sampling locations for placement on the site plan, and the top of well casing elevations to aid in determining groundwater gradient across the site.

On June 7, 2006 (and again on July 7, August 2 and September 1, 2006) water levels were measured at each well location from the surveyed top of well casing, following the procedures outlined in the RI/AA Work Plan.

Prior to collection of groundwater samples, each well was purged using a peristaltic pump (CTM-1 through CTM-15) or submersible pump (CTM-16 through CTM-18), in accordance with the procedures outlined in the RI/AA Work Plan. Purge water was handled in the same manner as the water generated during well development. After allowing the water level in each well to recover to at least 80 percent of its initial static level, groundwater samples were collected employing low-flow techniques, using a peristaltic pump (CTM-1 through CTM-15) or submersible pump (CTM-16 through CTM-18). With the exception of utilizing low-flow pumping methods for sample collection, groundwater samples were handled in accordance with the procedures outlined in the RI/AA Work Plan. The samples were forwarded to the laboratory of record (Chemtech) for the following analyses: TCL volatile and semi-volatile organic compounds; PCBs and pesticides; and TAL metals.

QA/QC samples were collected during the groundwater sampling event, as follows:

- One equipment blank of the peristaltic pump tubing was collected prior to collection of the groundwater sample from monitoring well CTM-11.
- One duplicate sample was collected of CTM-9.
- MS/MSD analyses were performed on CTM-7 and CTM-16.

3.6 Data Usability Summary Report (DUSR)

Data Usability Summary Reports (DUSRs) were completed of the analytical data generated during this investigation to confirm that the data is of adequate quality for subsequent decision making purposes. All of the analytical data presented in the attached summary tables have been validated in accordance with Appendix 2B (Guidance for the Development of Data Usability Summary Reports) of the *Draft DER-10 Technical Guidance for Site Investigation and Remediation* (NYSDEC, December 2002). The DUSR reports for the RI are presented as Exhibit 2.

3.7 Investigative Derived Waste

Waste derived from investigative activities consisted of soil from drilling, groundwater from well development and sampling, and plastic sheeting/tubing and personal protective equipment (i.e. sampling gloves). The waste soil and groundwater were

containerized in labeled 55-gallon drums, which were stored on site pending disposal arrangements. On September 7, 2006, C.T. Male's subcontractor, M.C. Environmental Services, Inc. mobilized personnel and equipment to the site to remove the waste for disposal, in conjunction with waste removal activities at the 312 Broadway site. Between the two sites, a total of 742 gallons of groundwater were removed from the drums using a vacuum truck, and were transported off site for disposal at Norlite Corporation in Cohoes, New York. The drums of soil were emptied, and a total of 4.59 tons of soil were loaded onto a dump truck and transported off site for disposal at Environmental Soil Management, Inc. in Fort Edward, New York. The empty drums were transported off site for disposal as scrap metal at T.A. Predel & Co., Inc. in Schenectady, New York. Plastic sheeting/tubing and PPE were bagged and discarded in Metroplex's solid waste dumpster. Pertinent waste disposal documentation is included in Appendix D.

4.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA

4.1 Results of Study Area Investigation

A number of investigative tasks were completed by C.T. Male to characterize the project site. The results of the investigative tasks are supplemented with published literature including soil, bedrock, and aquifer mapping to further assess the physical characteristics of the project site. The physical characteristics of the site are discussed in the following sections.

4.1.1 Surface Features

Presently, the site consists of an asphalt paved parking lot. Overall, the site slopes gently from the southeast (Clinton Street) towards the northwest (Broadway). Previous utilization of the site included garages, stores, warehouses and dwellings. Review of historical Sanborn Fire Insurance Maps shows that portions of the site were also occupied by a gasoline filling station, and a drycleaning facility.

4.1.2 Surface Water Bodies

Exposed surface water bodies are not located on the site. The nearest exposed surface water body is the Mohawk River, which is located approximately 0.6 mile northwest of the site. The river flows generally eastward to where it joins the Hudson River.

The Cowhorn Creek, an underground stream, enters the site along the northern portion of the eastern property boundary. It turns and continues northward, contained within a 5-foot diameter culvert, beneath the pedestrian walkway (which comprises the northeasternmost portion of the site), and exits the site at a point beneath the west side of the pedestrian walkway, where it heads in a west-southwesterly direction toward Broadway, ultimately flowing to the Mohawk River.

4.1.3 Surface Drainage Patterns

Storm water generated during the course of precipitation events flows across the site generally from the southeast to northwest, and is directed toward storm drains and catch basins located within the parking lot which are connected to the City of Schenectady municipal storm sewer system.

4.1.4 Regional Geology

Based on a review of the Surficial Geologic Map of New York, Hudson-Mohawk Sheet, the surficial geology in the vicinity of the site is mapped as recent deposits, generally confined to floodplains within a valley, consisting of oxidized, non-calcareous fine sand to gravel. As discussed herein, this is consistent with our findings.

According to the Geologic Map of New York, Hudson-Mohawk Sheet, bedrock in the vicinity of the site is mapped as the Normanskill Shale, which consists of minor mudstone and sandstone.

4.1.5 Site Soils

The site soils were explored through the advancement of fifteen soil borings that were later converted to monitoring wells. Twelve of the borings were advanced to depths of either 16 or 20 feet below grade. The remaining three borings were advanced to depths ranging from 99 to 104 feet below grade. A subsurface boring log for each test boring performed for this project was prepared, and is presented in Appendix B. The logs summarize and present the classifications of the subsurface soils, moisture content and other pertinent visual observations of the soil stratum for the site. The site soils, as visually classified using the Unified Soil Classification System at the time of test boring completion consist of the following: fill material of variable composition (sand, silt, gravel, fragments of brick and concrete) from just below the asphalt subbase material to depths up to 4 feet below grade; fine to coarse sand and silt to a depth of approximately 80 to 85 feet below grade; silt with some fine sand to a depth of approximately 100 to 105 feet below grade, where silty-clay was encountered and the deep borings were terminated. Bedrock was not encountered within the depth range explored.

4.1.6 Groundwater Characteristics

According to the map entitled "Potential Yields of Wells in Unconsolidated Aquifers in Upstate New York, Hudson-Mohawk Sheet" (Edward F. Bugliosi and Ruth A. Trudell, 1988), the subject site is located within an area designated as an unconfined aquifer with the potential to yield more than 100 gallons per minute.

Groundwater conditions on the site were assessed through the advancement of test borings and the subsequent installation of permanent monitoring wells. The

installation of groundwater monitoring wells allowed for the collection of static water level data. Water level measurements were collected from the monitoring wells on June 7, July 7, August 2 and September 1, 2006. Based on the collected water level data, the water table across the site at well locations CTM-1 to CTM-15 ranged in depth from approximately 4.5 to 14 feet below existing site grades. Depth to water measurements within the deep wells, CTM-16, CTM-17 and CTM-18 (screened just above the silty-sand/silty-clay interface), ranged from approximately 18.5 to 21 feet below grade. Water level data collected on June 7, July 7, August 2 and September 1, 2006 are summarized below in Table 4.1.6-1. The data were used to develop groundwater contour maps, which are presented as Figures 4, 5 and 6, respectively. The data from the three deep wells were not included in the groundwater contour mapping, as these wells are not screened within the same aquifer zone as the other wells. The groundwater within the screened aquifer zone of the deep wells is under a different potentiometric head pressure than that of the shallow wells. Based on the groundwater elevations within the deep wells as compared to the shallow wells, it appears that there is a net downward vertical groundwater gradient.

Based on the water level data obtained during the RI groundwater monitoring events, the overall hydraulic gradient across the site within the shallow aquifer is generally in the range of 0.03 to 0.05 ft/ft (or 3 to 5 percent), although gradient is steepest on the western portion of the site, consistent with surface topography. Assuming hydraulic conductivity and porosity values typical of predominantly sandy soils, the groundwater flow velocity across the site is estimated to be in the range of 10^{-3} to 10^{-4} cm/s (or approximately 0.28 to 2.8 feet per day, or 102.2 to 1,022 feet per year). The maps depict overall shallow groundwater flow direction across the site toward the north and northwest, toward the Mohawk River.

TABLE 4.1.6-1: Summary of Groundwater Elevation Data

Well ID	TOC Elevation (feet amsl)	Date	Depth to Water (feet)	Groundwater Elev. (feet amsl)
CTM-1	238.80	06/07/06	9.24	229.56
		07/07/06	9.9	228.90
		08/02/06	9.48	229.32
		9/1/06	9.75	229.05

TABLE 4.1.6-1: Summary of Groundwater Elevation Data				
Well ID	TOC Elevation (feet amsl)	Date	Depth to Water (feet)	Groundwater Elev. (feet amsl)
CTM-2	240.65	06/07/06	9.84	230.81
		07/07/06	10.0	230.65
		08/02/06	9.91	230.74
		9/1/06	10.00	230.65
CTM-3	242.99	06/07/06	12.15	230.84
		07/07/06	12.7	230.29
		08/02/06	11.63	231.36
		9/1/06	11.91	231.08
CTM-4	241.43	06/07/06	10.65	230.78
		07/07/06	8.6	232.83
		08/02/06	9.87	231.56
		9/1/06	10.95	230.48
CTM-5	243.92	06/07/06	12.98	230.94
		07/07/06	12.9	231.02
		08/02/06	13.03	230.89
		9/1/06	13.19	230.79
CTM-6	244.71	06/07/06	13.16	231.55
		07/07/06	12.3	232.41
		08/02/06	13.55	231.16
		9/1/06	14.06	230.65
CTM-7	243.20	06/07/06	4.35	238.85
		07/07/06	6.8	236.40
		08/02/06	11.72	231.48
		9/1/06	12.71	230.49
CTM-8	242.24	06/07/06	11.68	230.56
		07/07/06	NM	-
		08/02/06	NM	-
		9/1/06	NM	-
CTM-9	244.20	06/07/06	13.51	230.69
		07/07/06	13.8	230.40
		08/02/06	13.81	230.39
		9/1/06	14.28	229.92
CTM-10	242.23	06/07/06	12.03	230.20
		07/07/06	10.3	231.93
		08/02/06	12.90	229.33
		9/1/06	13.04	229.19
CTM-11	231.20	06/07/06	7.30	223.90
		07/07/06	5.3	225.90
		08/02/06	8.16	223.04

TABLE 4.1.6-1: Summary of Groundwater Elevation Data				
Well ID	TOC Elevation (feet amsl)	Date	Depth to Water (feet)	Groundwater Elev. (feet amsl)
		9/1/06	8.18	223.02
CTM-12	231.39	06/07/06	7.20	224.19
		07/07/06	5.4	225.99
		08/02/06	8.42	222.27
		9/1/06	8.45	222.94
CTM-13	244.17	06/07/06	12.80	231.37
		07/07/06	12.1	232.07
		08/02/06	NM (inaccessible)	-
		9/1/06	12.68	231.49
CTM-14	244.47	06/07/06	12.25	232.22
		07/07/06	12.2	232.27
		08/02/06	NM (inaccessible)	-
		9/1/06	12.27	232.20
CTM-15	243.25	06/07/06	12.47	230.77
		07/07/06	12.6	230.65
		08/02/06	13.61	229.64
		9/1/06	11.85	231.40
CTM-16	244.12	06/07/06	20.05	224.07
		07/07/06	NM	-
		08/02/06	20.59	223.53
CTM-17	244.63	06/07/06	20.63	224.00
		07/07/06	NM	-
		08/02/06	20.10	224.53
CTM-18	242.23	06/07/06	18.29	223.94
		07/07/06	NM	-
		08/02/06	18.45	223.78

NM = Not Measured

Field observations and parameters (pH, temperature, conductivity and turbidity) were recorded during groundwater sampling activities completed in June 2006. The pH values for the groundwater samples were relatively neutral with values ranging from 6.42 to 8.63 standard units. The groundwater sample temperatures ranged from 14.0 to 16.9 degrees Celsius. The conductivity for the groundwater samples ranged from 0.292 to 19.7 µS. Turbidity values for the sampled groundwater were monitored prior to collecting the analytical samples. Turbidity values ranged from 9 to 765 NTUs. The table below lists the stabilized field parameter values for each well immediately prior to sample collection.

TABLE 4.1.6-2: Groundwater Sampling Field Observations Summary							
Well ID	Turbidity (1)	pH & Temp.	Specific Conductance	Well ID	Turbidity	pH & Temp.	Specific Conductance
CTM-1	815 NTU	6.97 @ 15.0°C	2.60 µs	CTM-10	139 NTU	6.65 @ 15.9°C	2.88 µs
CTM-2	256 NTU	6.91 @ 14.5°C	3.91µs	CTM-11	9 NTU	7.17 @ 14.0°C	1.37 µs
CTM-3	135 NTU	6.80 @ 15.7°C	5.06 µs	CTM-12	580 NTU	7.34 @ 14.8°C	0.681 µs
CTM-4	12 NTU	6.42 @ 15.3°C	19.7 µs	CTM-13	183 NTU	7.11 @ 15.2°C	5.75 µs
CTM-5	42 NTU	6.53 @ 14.9°C	4.98 µs	CTM-14	460 NTU	7.18 @ 16.9°C	7.95 µs
CTM-6	765 NTU	6.9 @ 15.8°C	3.25 µs	CTM-15	196 NTU	7.26 @ 16.8°C	9.20 µs
CTM-7	64 NTU	7.27 @ 16.3°C	0.461 µs	CTM-16	27 NTU	8.29 @ 15.0°C	0.292 µs
CTM-8	N/S	N/S	N/S	CTM-17	363 NTU	8.25 @ 15.4°C	0.350 µs
CTM-9	471 NTU	6.73 @ 15.0°C	4.13 µs	CTM-18	485 NTU	8.63 @ 15.0°C	0.444 µs

Note: Turbidity readings were collected after purging, but before collecting laboratory samples.

Although attempts were made to obtain turbidity levels of less than 50 NTUs prior to the collection of groundwater samples, several samples exhibited turbidity levels in excess of 50 NTUs. A review of the subsurface logs and monitoring well construction logs for the wells shows that the screened interval for each well was situated within soils that had a significant silt component, suggesting that the silt continued to enter the well despite best efforts at monitoring well development, purging and sampling.

5.0 NATURE AND EXTENT OF CONTAMINATION

The nature and extent of contamination at the project site is based on subjective and quantitative analyses of samples collected during the RI. Samples collected during the RI included surface soil, subsurface soil and groundwater. The soil and groundwater samples were analyzed for TCL organics, Pesticides, PCBs and TAL metals. The analytical data for the RI are summarized in the following subsections, and are presented on Tables 1 through 11 following the report text. The tables only provide the results for compounds/analytes which were detected at one or more of the sample locations.

5.1 Sources

Historical potential sources of contamination consist of dry cleaning operations, a gasoline filling station, and fill materials of unknown origin underlying the entirety of the site to depths up to 6 feet below grade.

5.2 Determination of Project Standards, Criteria and Guidance (SCGs)

Project SCGs were established for comparison of analytical results of the different media types that were sampled. The media types were surface, near-surface and subsurface soils, and groundwater.

Soil and groundwater sampled as part of the RI were analyzed for TCL organics (which include volatile and semi-volatile organic compounds), pesticides and PCBs, and TAL metals. Analytical results for soil samples were compared to 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives. Analytical results for groundwater samples were compared to NYSDEC Groundwater Standards and Guidance Values, promulgated in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS).

5.3 Surface Soils

5.3.1 General

Three (3) surface soil samples, identified as SS-8, SS-11 and SS-12 on Figure 2, were collected from unpaved (grass-covered) areas of the site from the first few inches of soil beneath the root zone. Soil comprising the surface samples was similar at each of the sample locations, and consisted of a mixture of silt and fine sand. The near-surface soil samples were collected on May 1, 2006, and were forwarded to the laboratory of record for analysis for TCL volatile and semi-volatile organic compounds, pesticides and PCBs, and TAL metals.

Surface soil sampling results (detected compounds only) are presented in Tables 1 to 4 in the Tables section of the report.

5.3.2 Volatile Organic Compounds in Surface Soil

Volatile organic compounds (VOCs) were not detected in the surface soil samples at concentrations above laboratory method detection limits.

5.3.3 Semi-Volatile Organic Compounds in Surface Soil

Analytical results showed that multiple SVOCs were detected in surface soil samples SS-8 and SS-12 at concentrations above laboratory method detection limits, but *below* applicable SCGs.

Analytical results also indicated that one or more non-target SVOCs (referred to as Tentatively Identified Compounds, or TICs), were detected in each of the surface soil samples at total concentrations ranging from 5,855 to 8,190 ug/Kg.

5.3.4 Pesticides and PCBs in Surface Soil

Pesticides were not detected in surface soil samples SS-8 or SS-12. The pesticide 4,4-DDE was detected at a concentration above the laboratory method detection limit, but several orders of magnitude below its applicable SCG.

PCBs were not detected above the laboratory detection limits in surface soil samples.

5.3.5 Metals in Surface Soil

A total of nineteen (19) Target Analyte List metals were detected in the surface soil samples at concentrations above laboratory detection limits, but *below* SCGs.

5.4 Near-Surface Soils

5.4.1 General

Nine (9) near-surface soil samples, identified as SS-1 through SS-7, SS-9 and SS-10 on Figure 2, were collected from paved areas of the site from the first few inches beneath the gravel subbase underlying the asphalt. Soil comprising the near-surface samples was similar at each of the sample locations, and consisted of fine to coarse sand with minor components of silt and gravel. The near-surface soil samples were collected on May 1, 2006, and were forwarded to the laboratory of record for analysis for TCL volatile and semi-volatile organic compounds, pesticides and PCBs, and TAL metals. QA/QC samples were also collected and consisted of one equipment blank and one duplicate sample (duplicate of SS-9).

Near-surface soil sampling results (detected compounds only) are presented in Tables 1 to 4 in the Tables section of the report.

5.4.2 Volatile Organic Compounds in Near-surface Soil

The analytical results identified a total of four (4) VOCs in near-surface soil samples at concentrations exceeding laboratory detection limits, but at concentrations *below* their respective SCGs. Toluene was detected in sample SS-1, located in the vicinity of the former gasoline filling station, at an estimated concentration of 7.7 ug/kg. Tetrachloroethene was detected in sample SS-9, located in the vicinity of the former drycleaning operation, at an estimated concentration of 7.1 ug/kg. Toluene and mixed xylenes were detected in the SS-9 duplicate sample (Dup-2) at estimated concentrations of 7.1 and 6.9 ug/kg, respectively. Acetone was detected in sample SS-3, located on the easternmost portion of the site, at an estimated concentration of 57 ug/kg. No apparent relationship was noted between the historical uses of the site and the presence of acetone at the location of SS-3.

5.4.3 Semi-Volatile Organic Compounds in Near-surface Soils

Analytical results showed that multiple SVOCs were detected at concentrations above laboratory method detection limits in eight of the twelve near-surface soil samples. However, only one (1) SVOC (benzo(a)pyrene) was detected at concentrations exceeding its SCG, in samples SS-4 and SS-10 at concentrations of 3,900 and 1,700 ug/Kg, repectively. This SCG exceedence is identified in bold on Table 2 in the Tables section of the report, and is also identified on the SVOCs Above SCGs in Near-Surface Soil Samples map in Figure 6.

Near-surface soil sample locations exhibiting the highest concentrations of SVOCs were SS-3, SS-4 and SS-5 on the eastern portion of the site, and SS-10 on the western portion of the site.

Analytical results also indicated that one or more non-target SVOCs (referred to as Tentatively Identified Compounds, or TICs), were detected in each of the near-surface soil samples at total concentrations ranging from 2,704 to 21,440 ug/Kg.

5.4.4 Pesticides and PCBs in Near-surface Soils

The pesticides 4,4-DDE and 4,4-DDT were detected in the sample identified as SS-9, at estimated concentrations of 4.7 and 33 ug/kg, respectively. Similar concentrations of these pesticides were also detected in the duplicate sample of SS-9 (Dup-2). These concentrations are below the applicable SCGs. Pesticides were not detected at concentrations above laboratory detection limits in any other near-surface soil samples.

PCBs were not detected above the laboratory detection limits in near-surface soil samples.

5.4.5 Metals in Near-surface Soils

A total of nineteen (19) Target Analyte List metals were detected in near-surface soil samples at concentrations above laboratory method detection limits. One of these metals, arsenic, was detected at a concentration above its applicable SCG in near-surface soil sample SS-10. This SCG exceedence is identified in bold on Table 4 in the Tables section of the report, and is also identified on the Metals Above SCGs in Near-Surface Soil Samples map in Figure 7.

drycleaning operation (GP-5), and on the most downgradient portion of the site (GP-11, GP-12). Methylene chloride was detected at borings GP-1 and GP-3, located on the northern and eastern portions of the site, respectively. Toluene was detected at borings GP-6 and GP-12, located on the southern portion of the site.

5.5.3 Semi-volatile Organic Compounds in Subsurface Soils

SVOCs were detected at concentrations above the laboratory method detection limits in three (3) subsurface soil samples. Compounds detected in these samples included the following: acenaphthylene; acenaphthene; dibenzofuran; fluorene; phenanthrene; anthracene; carbazole; fluoranthene; pyrene; benzo(a)anthracene; chrysene; benzo(b)fluoranthene; benzo(k)fluoranthene; benzo(a)pyrene; indeno(1,2,3-cd)pyrene; and benzo(g,h,i)perylene.

One SVOC (benzo(a)pyrene) was detected above its applicable SCG. Benzo(a)pyrene was detected in sample GP-11 (4-6') at a concentration of 2,400 ug/Kg, repectively. This SCG exceedence is identified in bold on Table 6 in the Tables section of the report, and is also identified on the SVOCs Above SCGs in Subsurface Soil Samples map in Figure 8. The exceedence occurred within material sampled from the 4 to 6 foot depth interval at boring GP-11 (located on the westernmost portion of the site, within the grass-covered area adjacent to Broadway). Based on review of the Geoprobe Subsurface Exploration Logs for these borings, this sample was collected from within the depth range described as fill material.

Analytical results also indicated that one or more non-target SVOCs (referred to as Tentatively Identified Compounds, or TICs), were detected in each of the subsurface soil samples at total concentrations ranging from 2,170 to 11,360 ug/Kg.

5.5.4 Pesticides and PCBs in Subsurface Soils

Pesticides were detected at concentrations above the laboratory method detection limits in one subsurface soil sample. The following pesticides were detected in the sample from boring GP-11 at the 4 to 6 foot depth interval: Endosulfan 1; alpha-Chlordane; gamma-Chlordane; and Toxaphene. None of these was detected above its applicable SCG. Boring GP-11 was located near the western site boundary, within the grass-covered area adjacent to Broadway.

5.5 Subsurface Soils

5.5.1 General

Subsurface soil samples, identified as GP-1 through GP-15, were retained for laboratory analysis from fifteen (15) soil borings advanced using Geoprobe methods at the locations identified on Figure 2 as GP/CTM-1 to GP/CTM-15. Three additional, much deeper, soil borings were advanced on the site (CTM-16 through CTM-18) using hollow-stem auger methods; however, subsurface soil samples were not retained from these borings for analysis, based on the proximity of these borings to the shallower borings, and field observations (i.e. absence of subjective evidence of contamination) below the termination depths of the shallower borings. A total of 15 subsurface soil samples, plus one field duplicate sample were submitted for laboratory analysis. The selection of soil samples for laboratory analysis was based on PID screening results and organoleptic (i.e., sight and smell) perception. At locations where no apparent evidence of contamination was observed, the sample interval immediately above the water table was retained for analysis. The samples were analyzed for TCL organics, pesticides, PCBs and TAL metals.

Summary tables of subsurface soil sampling results (GP-1 through GP-15), which include detected compounds only, are presented as Tables 5 to 8 in the Tables section of the report.

5.5.2 Volatile Organic Compounds in Subsurface Soils

VOCs were detected at concentrations above the laboratory method detection limits in six (6) subsurface soil samples. Detected compounds included the following: acetone; methylene chloride; cis-1,2-dichloroethene; trichloroethene; tetrachloroethene and toluene. None of these compounds was detected at a concentration above its applicable SCG.

The sample from boring GP-1, located on the northern portion of the site, exhibited the highest total VOC concentration (177.9 ug/Kg). Although this boring was located in the vicinity of the former gasoline filling station, the most prevalent VOCs detected in the sample were chlorinated solvent-related compounds, which were not detected in any of the other subsurface soil samples. Acetone was detected at boring locations in the vicinity of the former gasoline filling station (GP-1), in the vicinity of the former

PCBs were not detected above laboratory method detection limits in any of the subsurface soil samples.

5.5.5 Metals in Subsurface Soils

With the exception of silver, all metals included in the TAL methodology were detected in the subsurface soil samples above the laboratory method and/or instrument detection limits. None of these metals was detected at concentrations above SCGs.

5.6 Groundwater

5.6.1 General

Eighteen (18) groundwater monitoring wells, identified on Figure 2 as GP/CTM-1 to GP/CTM-15 and CTM-16 to CTM-18, were installed as part of the sitewide subsurface/hydrogeologic investigation. Groundwater samples were collected and analyzed from all of the wells, with the exception of CTM-8, for TCL organics, pesticides, PCBs and TAL metals. (An unidentified obstruction or damage to the well material precluded the collection of a water sample from CTM-8.) The analytical results are discussed in the following subsections.

Summary tables of groundwater sampling results, which include detected compounds only, are presented as Tables 9 to 11 in the Tables section of the report.

5.6.2 Volatile Organic Compounds in Groundwater

Five (5) VOCs were detected above the laboratory method detection limits, but *below* their respective SCGs. VOCs were detected in the following samples: CTM-1 (cis-1,2-dichloroethene and tetrachloroethene); CTM-5 (tetrachloroethene); CTM-6 (methylcyclohexane); and CTM-7 (bromodichloromethane, dibromochloromethane). One (1) additional VOC (chloroform) was detected in the CTM-7 sample at a concentration of 7.2 ug/L, slightly above its SCG. This SCG exceedence is identified in bold on Table 9 in the Tables section of the report, and is also identified on the VOCs Above SCGs in Groundwater Samples map in Figure 8.

5.6.3 Semi-volatile Organic Compounds in Groundwater

One (1) SVOC was detected above the laboratory method detection limit, but *below* its SCG. Bis(2-ethylhexyl)phthalate, a common laboratory-introduced contaminant, was detected in the following samples: CTM-3 and CTM-4. One or more non-target compounds (TICs) were detected in each of the groundwater samples at concentrations ranging from 21 to 73.2 ug/L.

5.6.4 Pesticides and PCBs in Groundwater

Pesticides and PCBs were not detected above the method and instrument detection limits in any of the samples analyzed.

5.6.5 Metals in Groundwater

Twenty-one (21) of the twenty-three (23) metals included in the TAL methodology were detected in groundwater samples at concentrations above the laboratory method detection limits. Eleven (11) of these metals were detected at concentrations above their respective SCGs. Metals detected above SCGs are summarized below in Table 5.6.5-1, are shown in bold in Table 11 located in the Tables section of the report, and are also identified on the Metals Above SCGs in Groundwater Samples map in Figure 9.

TABLE 5.6.5-1: Metals Exceeding SCGs in Groundwater

Metal	SCG (ug/kg)	Frequency of Exceeding SCGs	Concentration Range Exceeding SCGs (ug/kg)	Sampling Location(s) Exceeding SCGs
Aluminum	100	13 of 17	279 to 32,800	CTM-1 through CTM-4 CTM-9 and CTM-10 CTM-12 through CTM-18
Arsenic	25	1 of 17	32.8	CTM-14
Barium	1,000	1 of 17	1,130	CTM-4
Chromium	50	3 of 17	66.7 to 93.4	CTM-14, CTM-16, CTM-17
Cobalt	5	2 of 17	7.54(J) to 31.8(J)	CTM-14, CTM-17

5.7.3 Subsurface Soils

VOCs, pesticides, PCBs and TAL metals were not detected at concentrations exceeding their applicable SCGs in the analyzed subsurface soil samples.

One (1) SVOC (benzo(a)pyrene) was detected at a concentration exceeding its SCG in one sample, GP-11(4-6'), near the western boundary of the site within the grass-covered area adjacent to Broadway.

5.7.4 Groundwater

SVOCs, pesticides and PCBs were not detected at concentrations exceeding their applicable SCGs in the analyzed groundwater samples.

One (1) VOC, chloroform, was detected in the CTM-7 sample at a concentration of 7.2 ug/L, slightly above its SCG of 7 ug/L.

Eleven (11) metals were detected at concentrations exceeding their respective SCGs. These included aluminum (13 of 17 sampling locations), arsenic (1 of 17 locations), barium (1 of 17 locations), chromium (3 of 17 locations), cobalt (2 of 17 locations), iron (15 of 17 locations), lead (1 of 17 locations), magnesium (3 of 17 locations), manganese (7 of 17 locations), sodium (16 of 17 locations), and vanadium (2 of 17 locations).

Exceedences of SCGs were not exhibited in any particular area of the site, but rather at various locations across the site. It should be noted that the exceedences of lead and arsenic were exhibited at CTM-14, which is located off site, along the south side of Clinton Street.

5.8 Past Site Activities Relative to Site Contaminants

Historic usages of the site have been both residential and commercial in nature. Commercial uses included warehouses, garages, stores, a drycleaning operation and a gasoline filling station. The site is underlain by various amounts of fill material that range up to 8 feet in thickness. The fill material consists primarily of sand, silt, gravel, and fragments of brick and concrete from just below the asphalt subbase material to depths of up to 8 feet below grade. The origin of the fill material is unknown. The following relates past site activities to contaminants identified during the RI.

- Past site activities associated with the former dry cleaning facility and former gasoline filling station are likely contributors of the VOCs detected in near-surface soil, subsurface soil and groundwater, although detections of these compounds were not above SCGs. Chlorinated VOCs identified in subsurface soil and groundwater at the location of GP/CTM-1 (on the northern portion of the site, in the vicinity of the former gasoline filling station) may be a result of the former use of solvents (i.e. parts cleaners) relating to station activities.

- Fill materials beneath the site are the likely contributor to SVOC detections within this media.

- Metals detected above SCGs may be associated with application of road salt to the parking lot surface, may be naturally occurring in the environment and/or may be constituents of the site's underlying fill material.

5.9 Fish and Wildlife Impact Analysis (FWIA) Results

Based on the site's current use as a paved parking lot, its location and lack of any observable wildlife resources, the NYSDEC Project Manager determined that a Fish and Wildlife Impact Analysis (FWIA) was not required for this investigation.

5.10 Data Usability Summary Report

All of the site investigation analytical data has been independently validated in accordance with NYSDEC DUSR requirements. The analytical results tabulated herein reflect the results of the DUSRs and have been appropriately qualified. The DUSRs are presented in Exhibit 6 of this report.

TABLE 6.2-1 - Physical and Chemical Properties of Site Contaminants					
Compound	Density	Kow(1)	Koc(2)	Water Solubility(3)	Henry's Law Constant(4)
Volatile Organic Compounds:					
Chloroform	1.485	1.97	31	Slightly Soluble	NDA
Semi-Volatile Organic Compounds:					
Benzo(a)pyrene	1.351	6.00	6.00	Insoluble	2.4E-06
Metals:					
Aluminum	2.70	NA	NA	NDA	NA
Arsenic	5.73	NA	NA	0.3	NA
Barium	3.51	NA	NA	1.5	NA
Chromium	7.1	NA	NA	NDA	NA
Cobalt	8.9	NA	NA	NDA	NA
Iron	7.86	NA	NA	NDA	NA
Lead	11.35	NA	NA	0.001	NA
Magnesium	1.74	NA	NA	NDA	NA
Manganese	7.44	NA	NA	NDA	NA
Sodium	0.97	NA	NA	Decomposes	NA
Vanadium	6.11	NA	NA	Insoluble	NA

References: Superfund Public Health Evaluation Manual; EPA/540/189/002; Hawley's Condensed Chemical Dictionary, Twelfth Edition; Howard, Philip H., Fate and Exposure Data for Organic Chemicals. Vols. 1&2. 1989; and Robert C. Knox and others, Subsurface Transport and Fate Processes, 1993; Wilson & Clarke, Hazardous Waste Site Soil Remediation, Theory and Application of Innovative Technologies, 1994.

NDA denotes no data available in cited references.

NA denotes not applicable.

(1) Log octanol/water partition coefficient.

(2) Organic carbon partition coefficient. Often a range is available rather than a single number.

(3) mg/L at 25 degrees C.

(4) Henry's Law constant, atm-m^3 / mole.

6.3 Contaminant Persistence

The organic carbon/water partition coefficient (Koc) indicates the tendency of an organic contaminant (VOCs and SVOCs) to sorb onto soil or sediment particles. Where the Koc is not experimentally available, it can be calculated based on the log octanol/water partition coefficient. The Koc multiplied by the organic carbon content of a given soil gives the estimated absorption partition coefficient (K_d) for that soil. Some absorption may occur between contaminants and inorganic soil or sediment particles, particularly clay. However, experimental data indicates that the absorption of

nonionic, undissociated chemicals to inorganic soil or sediment is low. Once the sorption sites in soil are used up, mobility will usually increase to some extent.

Mobility is expected to be lowest in surface soils, which tend to have some organic carbon. Below several feet in depth, the organic carbon content of soils is likely to be very low, and even a compound with a high Koc will be moderately mobile. However, fill containing organic materials such as ash, cinder or building rubble may have organic carbon levels that equal or exceed surface soils. The SVOCs have a wide range of organic carbon partition coefficient values that range from 5.0 for bis(2-Ethylhexyl)phthalate, indicating low sorption and high mobility, to 550,000 for benzo(k)fluoranthene, indicating medium to high sorption and low to medium mobility in soil.

The mobility of metals is affected by geologic conditions, and is often gauged by the environment's oxidation/reduction (redox) potential. As the pH and dissolved oxygen vary, the solubility of metals can change substantially. Generally, but not always, reductive conditions favor the solid phase of the metal, so a change toward reducing conditions can precipitate soluble metals, making them immobile.

Water solubility indicates the tendency of a compound to dissolve in and travel in water. The site contaminants (except for metals) have a wide range of solubilities, but are generally soluble. When contaminant concentrations are above approximately ten percent of the water solubility, a separate phase will tend to form. The water solubility values of the semi-volatile organic contaminants in groundwater vary, but are on the order of 0.00055 to 0.3 mg/l. Since the concentration of contaminants detected at the Site are less than their corresponding water solubility values, separate phase layers are not likely to exist within the site. The majority of the metals of concern are nearly insoluble in water, with the exception of calcium and sodium, which readily dissolve in water.

Volatility in diffuse aqueous conditions such as those that occur in groundwater at the site is quantified by Henry's constant (K_h). The rate of volatilization increases as K_h increases. Volatility increases with decreases in atmospheric pressure, increase in temperature and when the compound vapor pressure is low relative to saturation. The contaminants of concern (with the exception of metals, which are not volatile) include semivolatile organic compounds, which will volatilize to some degree when

unsaturated vapor, such as soil gas or the open atmosphere, are present.

Due to the composition of metals, they do not typically biodegrade. Lighter petroleum hydrocarbon contaminants biodegrade readily. The heavier, semi-volatile organic compounds biodegrade at a slower rate, primarily under anaerobic conditions. Biodegradation of SVOCs in soil/groundwater has been found to occur under aerobic and to a lesser extent anaerobic conditions, such as occurs in groundwater. The presence of acclimatized microbes, which are likely to occur within the site, enhances biodegration of SVOCs. Acclimatized microbes are soil micro-organisms which have adapted themselves to the contaminants by producing enzymes to withstand toxic effects and to allow metabolism of the contaminants. Addition of nutrients and oxygen would be expected to increase the rate of biotic degradation.

6.4 Contaminant Migration

The potential routes of contaminant migration are through groundwater and the atmosphere. Depending on their solubility, contaminants could dissolve in groundwater and be transported in the direction of groundwater flow. Contaminants potentially present in the vapor phase of the unsaturated soil/fill zone could vertically migrate to the open atmosphere. The SVOC of concern (benzo(a)pyrene) in near-surface soil and subsurface soil/fill material, and the metal of concern (arsenic) in near-surface soil could be transported to the atmosphere in the form of dust particulates should the asphalt surface cover be removed and this media be disturbed.

6.4.1 Groundwater Migration

The presence of a VOC heavier than water (chloroform) suggests the potential for migration of this contaminant within lower portions of the aquifer. It is expected that this compound will migrate in the direction of groundwater flow. The majority of the detected metals (with the exception of calcium and sodium) are insoluble in water and tend to adsorb and/or absorb to surrounding soil and fill particles; indicating a low propensity to migrate in the direction of groundwater.

Groundwater beneath the site generally flows towards the Mohawk River. Physical and chemical factors affecting the migration rate of contaminants include: the historical disposition of fill materials; natural biodegradation; bio-accumulation by organic

materials; sorption onto soil and fill particles; and volatilization into the vadose zone and the unsaturated soils.

6.4.2 Atmospheric Migration

Site contaminants (SVOCs) in soil vapor will diffuse slowly upward and horizontally to unsaturated soil vapor. Although the site is almost entirely covered with asphalt pavement, it is possible that contaminants would migrate upward in the fill/near-surface soil and diffuse to the atmosphere through cracks in the pavement and in areas were the pavement is absent. The rate of diffusion into the atmosphere depends on the differential in vapor saturation and on the atmospheric pressure. Under natural conditions, the differential is expected to be low within the soil. At the soil/atmosphere interface, the differential can change frequently, with great increases in differential causing contaminants to transport rapidly from surface soil to the atmosphere. Site contaminants which may volatilize from the site soils/fill to the atmosphere will disperse or abiotically degrade, with rates dependent on wind speed and levels of atmospheric radicals. Since the levels of contaminants are at relatively low levels, SVOC contaminants in the atmosphere are not expected to accumulate at detectable levels under existing conditions. Metals do not typically exhibit volatility and therefore would not likely enter the atmosphere unless site soils/fill were disturbed such that dust particles with metals adhered to them enter the atmosphere.

7.0 EXPOSURE ASSESSMENT

7.1 Qualitative Exposure Assessment

The purpose of the qualitative exposure assessment is to evaluate the potential for human exposure from site related contamination without any remediation. In performing the qualitative exposure assessment, the potential site related contaminants and the actual or potential exposure pathways were identified. The potentially exposed populations and the extent of actual or potential exposure were also evaluated.

The potential site related contaminants were identified as those contaminants detected in various media at the Site above SCGs. Potential exposure pathways for site contaminants are a function of the contaminant, the affected media, contaminant location and the potentially impacted population. The present potential exposure routes and pathways include the following:

- dermal contact and/or ingestion of potentially contaminated soil on-site;
- dermal contact and/or ingestion of contaminated groundwater generated from potential leaching of contaminants during storm water infiltration/percolation and then migrating with groundwater; and
- inhalation of dust and/or vapor emissions transported by wind.

The potential impacted populations at the site and vicinity include residents in the neighboring community, site workers (booth attendants), site visitors, trespassers on the site, workers engaged in subsurface excavation or other ground disturbance activity and construction workers during future site development.

Several semivolatile organic compounds and metals were detected in near-surface and subsurface soils/fill materials (although only two analytes (benzo(a)pyrene and arsenic) were above their SCGs). Disturbance of the near-surface, subsurface soils/fill materials during future construction activities could potentially create airborne contaminants that may be inhaled and/or ingested. The potential for dermal contact, inhalation and ingestion of the impacted near-surface, subsurface soil/fill material is, therefore,

anticipated to be high during construction activities but remains low at present, as the site is almost entirely covered with asphalt.

One VOC (chloroform) and several metals were detected in groundwater at concentrations exceeding SCGs. Considering that the depth to groundwater is greater than 4 feet below grade, the potential for dermal contact through exposure to groundwater and the associated impact is anticipated to be low, unless groundwater is encountered and subsequently disturbed during construction activities, where it will need to be evacuated and treated. Ingestion of the contaminated groundwater is unlikely since the area surrounding and downgradient of the site is serviced by public water and no private water supply wells are known to exist.

8.0 SUMMARY AND CONCLUSIONS

8.1 Summary

The site investigation work tasks have been completed in substantial conformance with the Remedial Investigation/Alternatives Analysis (RI/AA) Work Plan for the Site, dated April 7, 2006. Any deviations to the Work Plan have been discussed within the body of this report.

8.1.1 Site Background

The site is currently developed as a municipal parking lot along the north side of Clinton Street, east of Hamilton Street. In addition to parking areas, the site also includes landscaped areas and a pedestrian walkway (adjacent to Proctor's Theater). A review of historical sources shows that prior to its current usage as a parking lot, the site was historically occupied by commercial buildings including stores, warehouses, garages, a drycleaning facility, and a gasoline filling station.

Based on the results of a Phase I Environmental Site Assessment (ESA) conducted by others in February 2004, a limited Phase II ESA was conducted on the site by C.T. Male in April 2004. Soil and groundwater samples submitted for laboratory analysis as part of the assessment showed the presence of volatile organic compounds at concentrations exceeding regulatory limits at sampling locations in the areas of the former gasoline filling station and the former drycleaning facility.

8.1.2 Physical Characteristics of the Project Site

The project site consists of an asphalt-paved parking lot, with landscaped areas and a pedestrian walkway. The site slopes gently from the southeast toward the northwest. Subsurface lithology on the site consists of fill material of variable composition (sand, silt, gravel, fragments of brick and concrete) from just below the asphalt subbase material to depths up to 8 feet below grade; and fine to coarse sand and silt to a depth of approximately 80 to 85 feet below grade; and silt with some fine sand to a depth of approximately 100 to 105 feet below grade which is underlain by a silty-clay unit. Bedrock was not encountered within the explored depth range.

Exposed surface water bodies are not located on the site. The nearest exposed surface water body is the Mohawk River, approximately 0.6 mile northwest of the site, which flows generally eastward to where it joins the Hudson River. The Cowhorn Creek, an underground stream, enters the site along the northern portion of the eastern property boundary. It turns and continues northward, contained within a 5-foot diameter culvert, beneath the pedestrian walkway (which comprises the northeasternmost portion of the site), and exits the site at a point beneath the west side of the pedestrian walkway, where it heads in a west-southwesterly direction toward Broadway.

Storm water generated during the course of precipitation events surface flows across the parking lot following surface topography toward on-site storm drains, which are connected to the City of Schenectady municipal storm sewer system.

Groundwater was encountered on the site at depths ranging from approximately 4.5 to 14 feet bgs, and overall shallow groundwater flow direction across the site is from southeast to northwest, toward the Mohawk River.

8.1.3 Fish and Wildlife Impact Analysis (FWIA)

Based on the site's current use as a paved parking lot, its location and lack of any observable wildlife resources, the NYSDEC Project Manager determined that a Fish and Wildlife Impact Analysis (FWIA) was not required as part of this investigation.

8.1.4 Survey of Public and Private Wells

According to information from the City of Schenectady and the Schenectady County Health Department, the area of the project site is served by the City of Schenectady's municipal water supply system. Private water supply wells are reportedly not located on or in the vicinity of the project site.

8.1.5 Nature and Extent of Contamination

The primary contaminants of concern at the Site consist of one SVOC (benzo(a)pyrene) and one metal (arsenic) in near-surface soil, one SVOC (benzo(a)pyrene) in subsurface

soil/fill material, and one VOC (chloroform) and metals in groundwater. The following summarizes the nature and extent of contamination for the project site per media type.

Surface Soils

Three (3) surface soil samples were collected and submitted for laboratory analysis as part of the RI.

VOCs, SVOCs, pesticides, PCBs and TAL metals were not detected at concentrations exceeding SCGs in surface soil samples.

Near-Surface Soils

Nine (9) near-surface soil samples were collected and submitted for laboratory analysis as part of the RI.

VOCs, pesticides and PCBs were not detected at concentrations exceeding SCGs in near-surface soil samples.

One (1) SVOC was detected above its SCG at two (2) locations (SS-4 and SS-10).

One (1) TAL metal was detected above its SCG at one (1) location (SS-10).

Subsurface Soils and Fill Material

Fifteen (15) samples of subsurface soils/fill were submitted for laboratory analyses during the RI.

VOCs, pesticides, PCBs and TAL metals were not detected at concentrations exceeding SCGs in subsurface soil samples.

One (1) SVOC was detected above its SCG at one (1) location (GP-11).

Groundwater

Eighteen (18) groundwater samples were collected and submitted for laboratory analyses during the RI.

SVOCs, pesticides and PCBs were not detected at concentrations above SCGs in groundwater samples.

One VOC was detected at a concentration slightly above its SCG at one (1) location (CTM-7).

Eleven (11) TAL metals were detected above SCGs at varying frequencies at monitoring well locations across the site. The metals included aluminum, arsenic, barium, chromium, cobalt, iron, lead, magnesium, manganese, sodium and vanadium.

8.1.6 Fate and Transport

The primary contaminants of concern at the Site consist of one SVOC in near-surface and subsurface soils/fill material in the central to western portions of the Site, one VOC in groundwater on the southernmost portion of the Site, and metals in groundwater across the site.

The SVOC in near-surface and subsurface soil/fill will tend to adhere to surrounding soil and fill particles and not migrate into underlying groundwater. This is exemplified by the presence of only one (1) of the SVOCs identified in the surface soil and subsurface soil/fill samples within the sampled groundwater. The SVOC in subsurface soils/fill material may volatilize to the atmosphere should the soils/fill be disturbed.

Metals in groundwater (except calcium and sodium, which decompose in water) are expected to adhere to surrounding soil and fill particles and will not necessarily follow groundwater flow direction nor volatilize to the vadose zone.

The transport mechanisms for the contaminants present at the site are migration within the groundwater and/or volatilization into the atmosphere. The SVOCs are confined to the soil and fill materials and would more than likely be dispersed to the atmosphere should this media be disturbed. However, should the SVOCs migrate downwards into the groundwater, they will tend to sink to the bottom of the aquifer to a less permeable soil type (silt/clay) and migrate in the direction of groundwater flow and/or the surface of the less permeable unit. Most metals are strongly held, reducing their migration and extent of contamination, with the exception of calcium and sodium, which readily dissolve in groundwater.

8.2 Conclusions

The results of soil and groundwater sampling at the locations of GP/CTM-1 and GP/CTM-2, in the area of the former gasoline filling station (in the vicinity of MW-2, installed/sampled in 2004) did not indicate the presence of petroleum-related compounds at concentrations above SCGs. It appears that the extent of the petroleum-related compounds identified at MW-2 in 2004 was/is limited to the immediate vicinity of that well. However, low levels of chlorinated solvent-related compounds were identified within the fill material at the location of GP/CTM-1.

The results of soil and groundwater sampling at the locations of GP/CTM-5, GP/CTM-6 and GP/CTM-9, in the area of the former drycleaning operation (in the vicinity of MW-5, installed/sampled in 2004) did not indicate the presence of drycleaning-related or petroleum-related compounds at concentrations above SCGs. It appears that the extent of chlorinated compounds identified at MW-5 in 2004 was/is limited to the immediate vicinity of that well. Additionally, the results of the groundwater samples collected from the three deep monitoring wells showed that chlorinated compounds have not impacted the lowest portion of the aquifer (situated just above the silt/clay unit) in these areas.

Subsurface soil analytical results indicate that detected VOCs and SVOCs, and in particular, those above SCGs, are most prevalent within the depth range of the fill material (up to 8 feet below grade) on the site. SVOCs within the subsurface soil/fill material appear to be limited to two areas on the site: the area in the vicinity of GP/CTM-7 (near the intersection of Hamilton Street and Clinton Street); and the area in the vicinity of GP/CTM-11 (adjacent to the south side of Broadway).

The groundwater analytical results show the presence of several TAL metals (including arsenic, chromium and lead) at concentrations exceeding SCGs at the location of well CTM-14. This well is located off of the site, along the south side of Clinton Street and is hydraulically upgradient of the site, suggesting that the metals identified on the site may be related to an off-site source.

Based on the findings of this site investigation as described above, the presence and extent of the contaminants of concern in the soil and groundwater have been fully characterized. Impacts to the soil due to SVOCs and metals are limited to discrete

portions of the site. Impacts to groundwater due to VOCs and metals are also limited in scope and may be attributed to high turbidity in some of the collected samples and as such, may not represent actual groundwater conditions. However, to fully address all media, and because of the presence of VOCs in isolated portions of the Site, soil gas will be collected and analyzed to determine the potential for vapor intrusion into off-site and future on-site structures. This additional investigative activity will be coordinated and performed under the guidance of the NYSDEC and NYSDOH, in accordance with the procedures previously presented in the RI Work Plan, dated April 7, 2006.

8.2.1 Data Limitations and Disclaimer

All of the site investigation analytical data has been independently validated in accordance with NYSDEC DUSR requirements. The DUSRs did not reject any of the analytical data and declared that all analytical results are considered usable with minor edits/qualifications. Modifications of analytical results pursuant to review of the DUSRs have been incorporated where necessary on the analytical summary tables. The narrative portions of the DUSRs are presented in Exhibit 2 of this report.

FIGURES

MAP REFERENCE
United States Geological Survey
7.5 Minute Series Topographic Map
Quadrangle: Schenectady, NY
Date: 1980

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ENVIRONMENTAL SERVICES
SURVEYING
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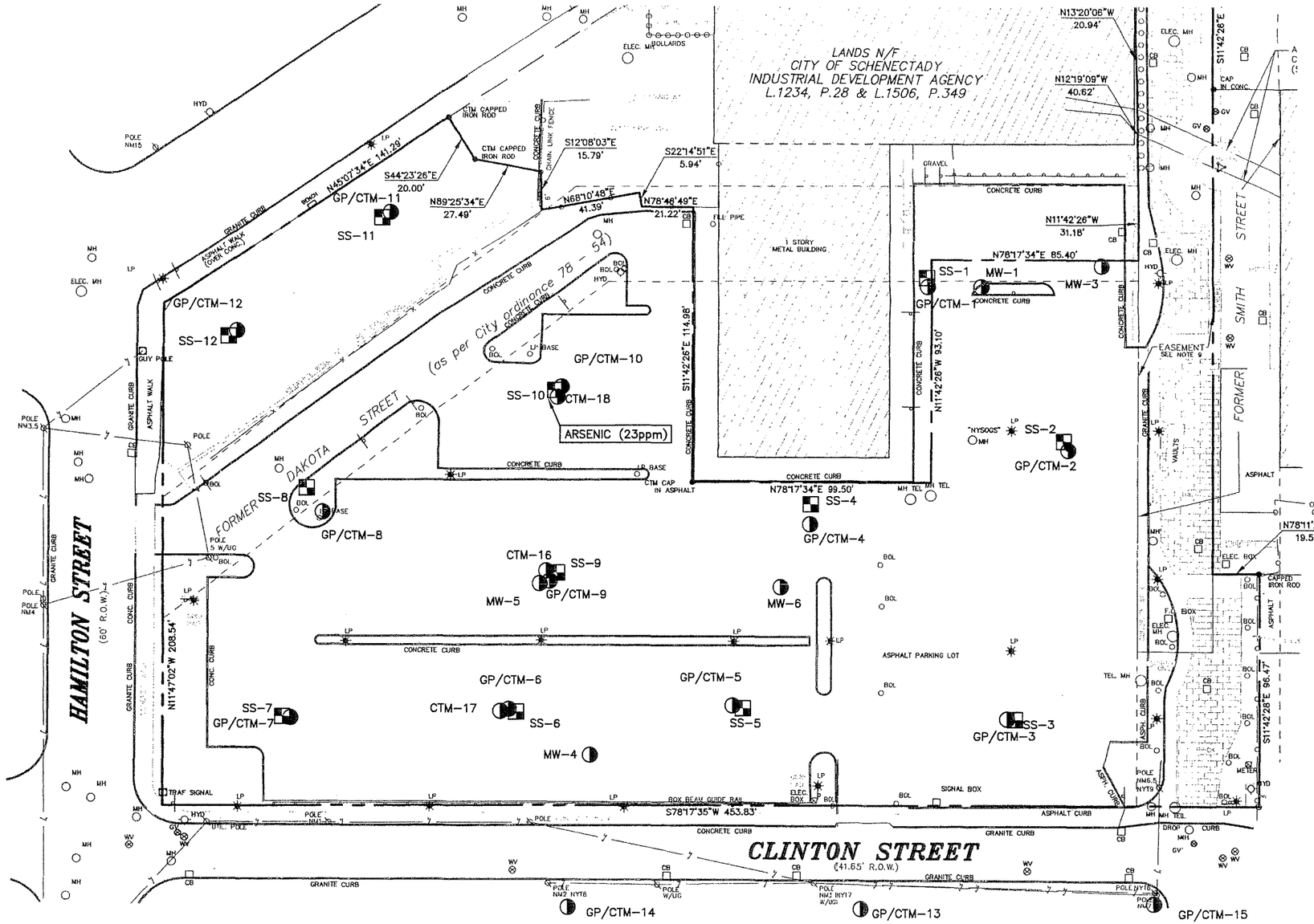
FAX (518) 786-7299

C.T.MALE ASSOCIATES, P.C.
50 CENTURY HILL DRIVE, PO BOX 727, LATHAM, NY 12110

FIGURE 1 - SITE LOCATION MAP

CLINTON SOUTH PARKING LOT

CITY OF SCHENECTADY	SCHENECTADY COUNTY, NY
SCALE: 1"=2,000'	
DRAFTER: ASG	
PROJECT No. 04.9227	



MAP NOTES

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LEGEND

○ BOL	BOLLARD
□ CB	CATCH BASIN
○ GV	GAS VALVE
⊰ HYD	HYDRANT
☼ LP	LIGHT POLE
○ MH	MISCELLANEOUS MANHOLE
⊰ NM15	UTILITY POLE
○ WV	WATER VALVE
◑ GP/CTM–1	MONITORING WELL LOCATION (WELLS INSTALLED BY C.T. MALE APRIL 2006)
◑ MW–1	MONITORING WELL LOCATION (WELLS INSTALLED BY C.T. MALE APRIL/MAY 2004)
◪ SS	NEAR–SURFACE SOIL SAMPLE LOCATION (SAMPLES COLLECTED BY C.T. MALE MAY 2006)

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

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CHECKED :
PROJ. NO: 05.5551
SCALE : 1"=50'
DATE : JUNE 6, 2006

FIGURE 2
MONITOR WELL/SAMPLING LOCATIONS

ENVIRONMENTAL RESTORATION PROGRAM INVESTIGATION
CLINTON SOUTH PARKING LOT/314 CLINTON STREET

CITY OF SCHENECTADY — SCHENECTADY COUNTY, NY.

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SHEET 1 OF 9
DWG. NO: 07–115

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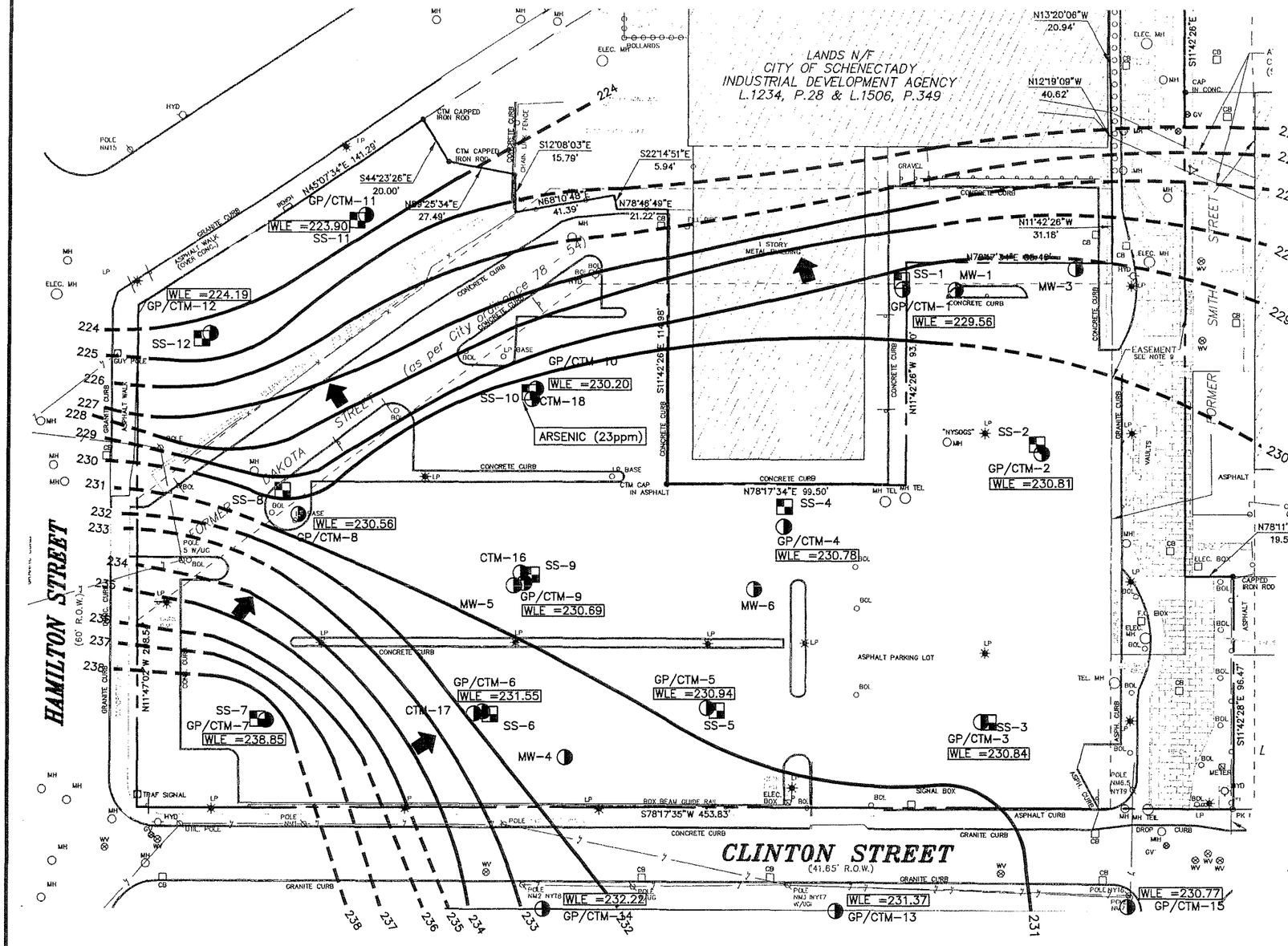

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LEGEND

o BOL	BOLLARD
□ CB	CATCH BASIN
o GV	GAS VALVE
◇ HYD	HYDRANT
✳ LP	LIGHT POLE
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∅ NM15	UTILITY POLE
o WV	WATER VALVE
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MW-1	MONITORING WELL LOCATION (WELLS INSTALLED BY C.T. MALE APRIL/MAY 2004)
SS	NEAR–SURFACE SOIL SAMPLE LOCATION (SAMPLES COLLECTED BY C.T. MALE MAY 2006)
WLE=230.84	DENOTES WATER LEVEL ELEVATION (FEET ABOVE MEAN SEA LEVEL)
231	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

NOTE: DATA FROM DEEP WELLS CTM–16, CTM–17, CTM–18 NOT USED IN DEVELOPING CONTOUR MAP

1. Data from deep wells CTM–16, CTM–17, CTM–18 not used in developing contour map.
2. Wells installed in 2004 (MW–1 through MW–6) not used for monitoring due to condition and/or location (proximity to new wells).

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PROJ. NO: 05.5551
SCALE : 1"=50'
DATE : JAN 8, 2007

FIGURE 3
GROUNDWATER CONTOUR MAP-JUNE 7, 2006

ENVIRONMENTAL RESTORATION PROGRAM INVESTIGATION
CLINTON SOUTH PARKING LOT/314 CLINTON STREET

CITY OF SCHENECTADY — SCHENECTADY COUNTY, NY.

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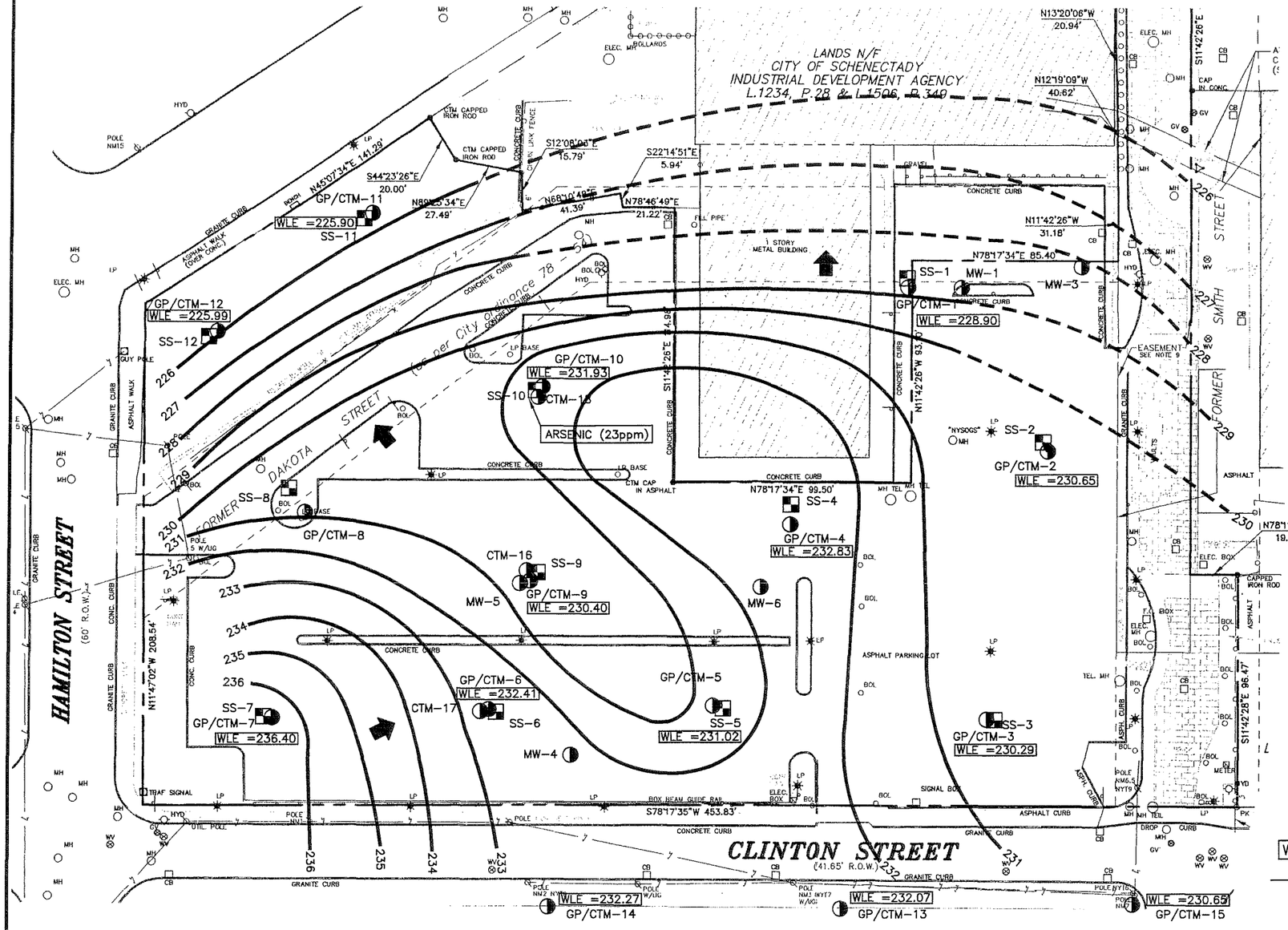

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LEGEND

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CB	CATCH BASIN
GV	GAS VALVE
HYD	HYDRANT
LP	LIGHT POLE
MH	MISCELLANEOUS MANHOLE
NM15	UTILITY POLE
WV	WATER VALVE
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MW-1	MONITORING WELL LOCATION (WELLS INSTALLED BY C.T. MALE APRIL/MAY 2004)
SS	NEAR-SURFACE SOIL SAMPLE LOCATION (SAMPLES COLLECTED BY C.T. MALE MAY 2006)
WLE= 230.84	DENOTES WATER LEVEL ELEVATION (FEET ABOVE MEAN SEA LEVEL)
231	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)

BAR SCALE

50 0 25 50 100

1 inch = 50 ft.

NOTE: DATA FROM DEEP WELLS CTM-16, CTM-17, CTM-18 NOT USED IN DEVELOPING CONTOUR MAP

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2. Wells installed in 2004 (MW-1 through MW-6) not used for monitoring due to condition and/or location (proximity to new wells).

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CHECKED : J. FAVREAU
PROJ. NO: 05.5551
SCALE : 1"=50'
DATE : JAN 8, 2007

FIGURE 4
GROUNDWATER CONTOUR MAP-JULY 7, 2006

ENVIRONMENTAL RESTORATION PROGRAM INVESTIGATION
CLINTON SOUTH PARKING LOT/314 CLINTON STREET

CITY OF SCHENECTADY — SCHENECTADY COUNTY, NY.

C.T. MALE ASSOCIATES, P.C.
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SHEET 3 OF 9
DWG. NO: 07-115

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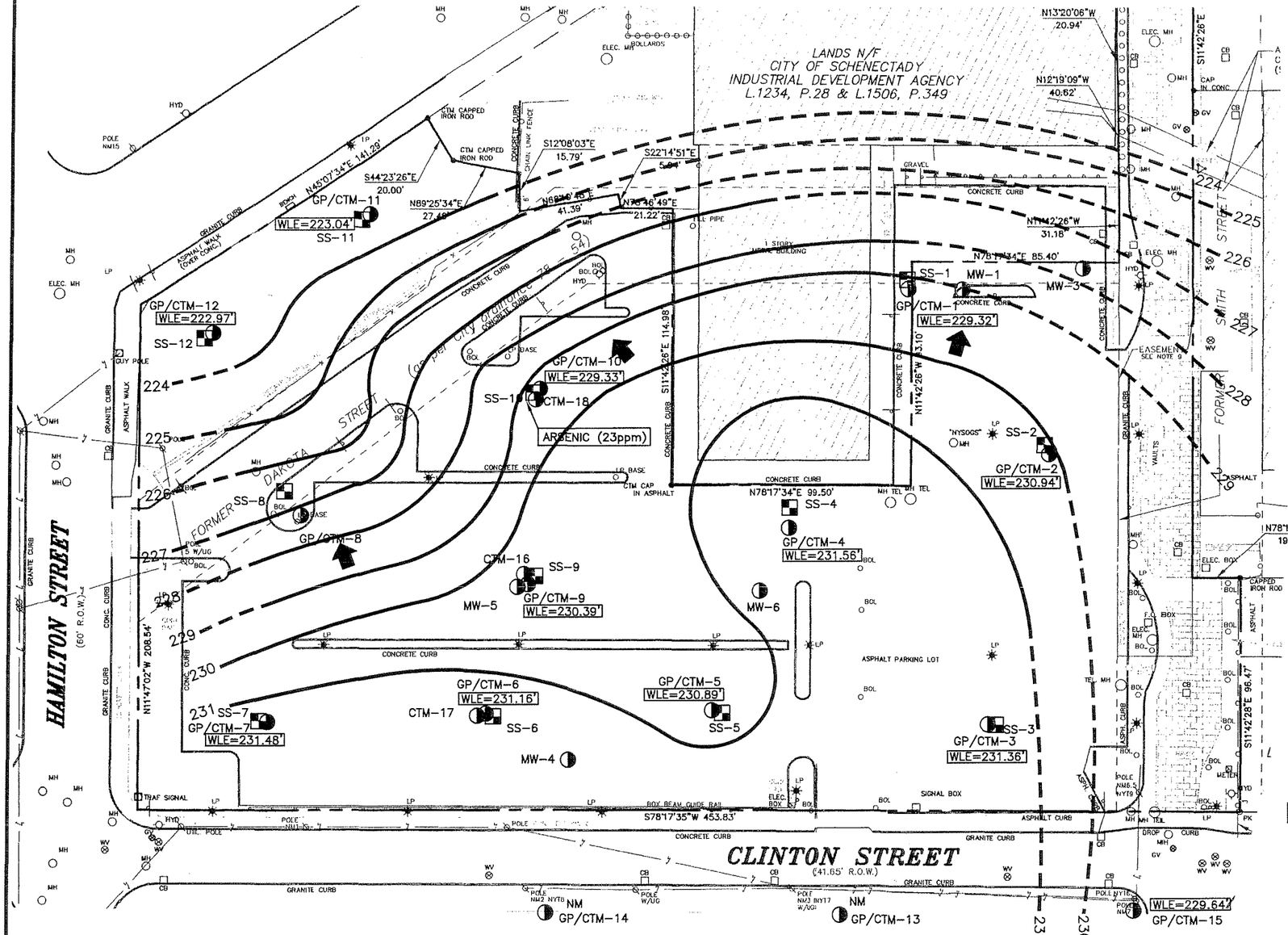

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LEGEND

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CB	CATCH BASIN
GV	GAS VALVE
HYD	HYDRANT
LP	LIGHT POLE
MH	MISCELLANEOUS MANHOLE
NM15	UTILITY POLE
WV	WATER VALVE
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MW-1	MONITORING WELL LOCATION (WELLS INSTALLED BY C.T. MALE APRIL/MAY 2004)
SS	NEAR-SURFACE SOIL SAMPLE LOCATION (SAMPLES COLLECTED BY C.T. MALE MAY 2006)
WLE= 230.84	DENOTES WATER LEVEL ELEVATION (FEET ABOVE MEAN SEA LEVEL)
— 231 —	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
NM	NOT MEASURED (WELL INACCESSIBLE)

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

NOTE: DATA FROM DEEP WELLS CTM-16, CTM-17, CTM-18 NOT USED IN DEVELOPING CONTOUR MAP

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PROJ. NO: 05.5551
SCALE : 1"=50'
DATE : JAN 8, 2007

FIGURE 5
GROUNDWATER CONTOUR MAP-AUGUST 2, 2006

ENVIRONMENTAL RESTORATION PROGRAM INVESTIGATION
CLINTON SOUTH PARKING LOT/314 CLINTON STREET

CITY OF SCHENECTADY — SCHENECTADY COUNTY, NY.

C.T. MALE ASSOCIATES, P.C.
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SHEET 4 OF 9
DWG. NO: 07-115

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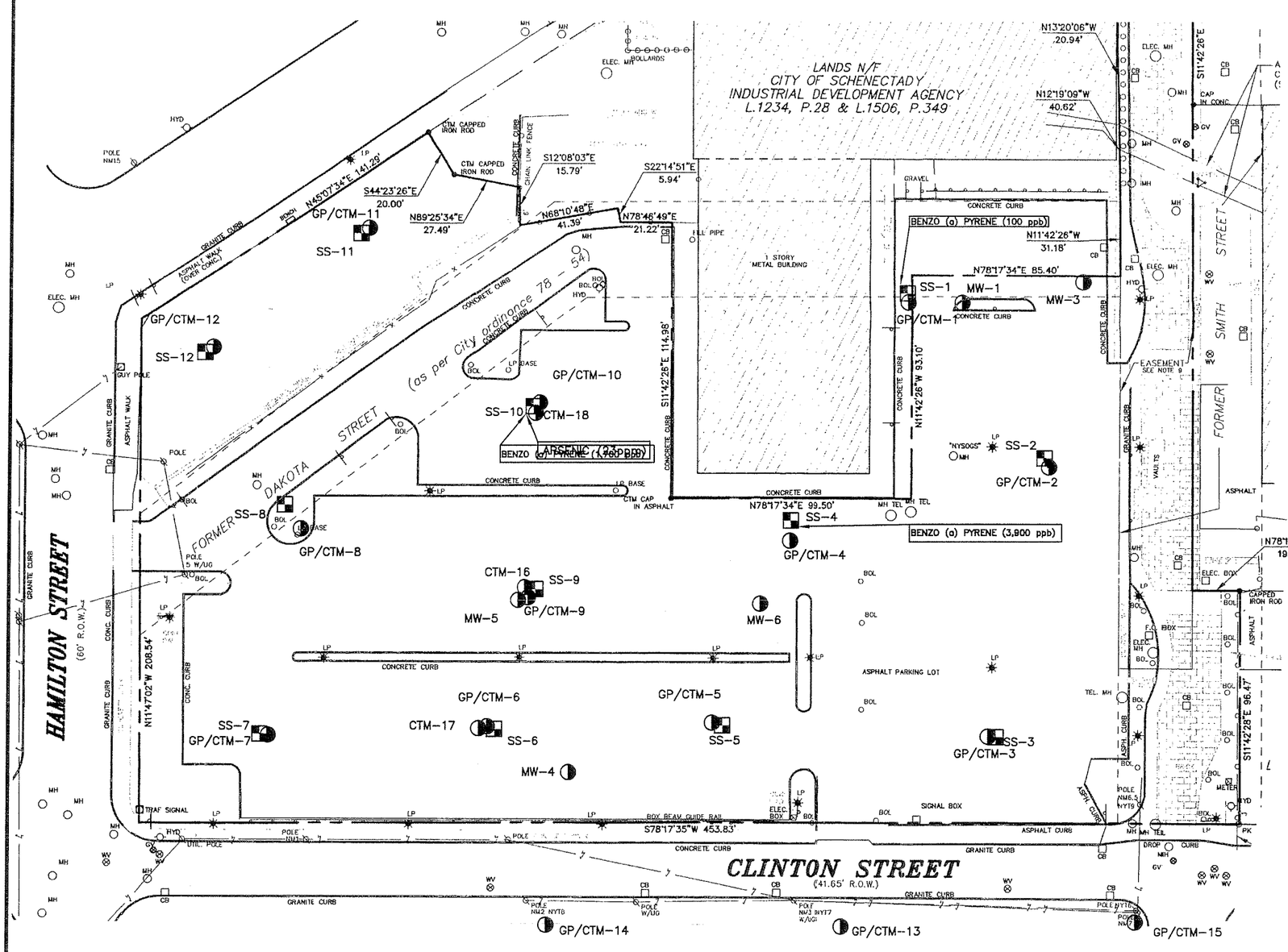

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LEGEND

BOL	BOLLARD
CB	CATCH BASIN
GV	GAS VALVE
HYD	HYDRANT
LP	LIGHT POLE
MH	MISCELLANEOUS MANHOLE
NM15	UTILITY POLE
WV	WATER VALVE
GP/CTM-1	MONITORING WELL LOCATION (WELLS INSTALLED BY C.T. MALE APRIL 2006)
MW-1	MONITORING WELL LOCATION (WELLS INSTALLED BY C.T. MALE APRIL/MAY 2004)
SS	NEAR-SURFACE SOIL SAMPLE LOCATION (SAMPLES COLLECTED BY C.T. MALE MAY 2006)
PPB	PARTS PER BILLION

BAR SCALE

50 0 25 50 100

1 inch = 50 ft.

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DRAFTED : S.WUNSCH

CHECKED : J. FAVREAU

PROJ. NO: 05.5551

SCALE : 1"=50'

DATE : JAN 8, 2007

FIGURE 6

SVOCs ABOVE SCGs IN NEAR-SURFACE SOIL SAMPLES

ENVIRONMENTAL RESTORATION PROGRAM INVESTIGATION
CLINTON SOUTH PARKING LOT/314 CLINTON STREET

CITY OF SCHENECTADY — SCHENECTADY COUNTY, NY.

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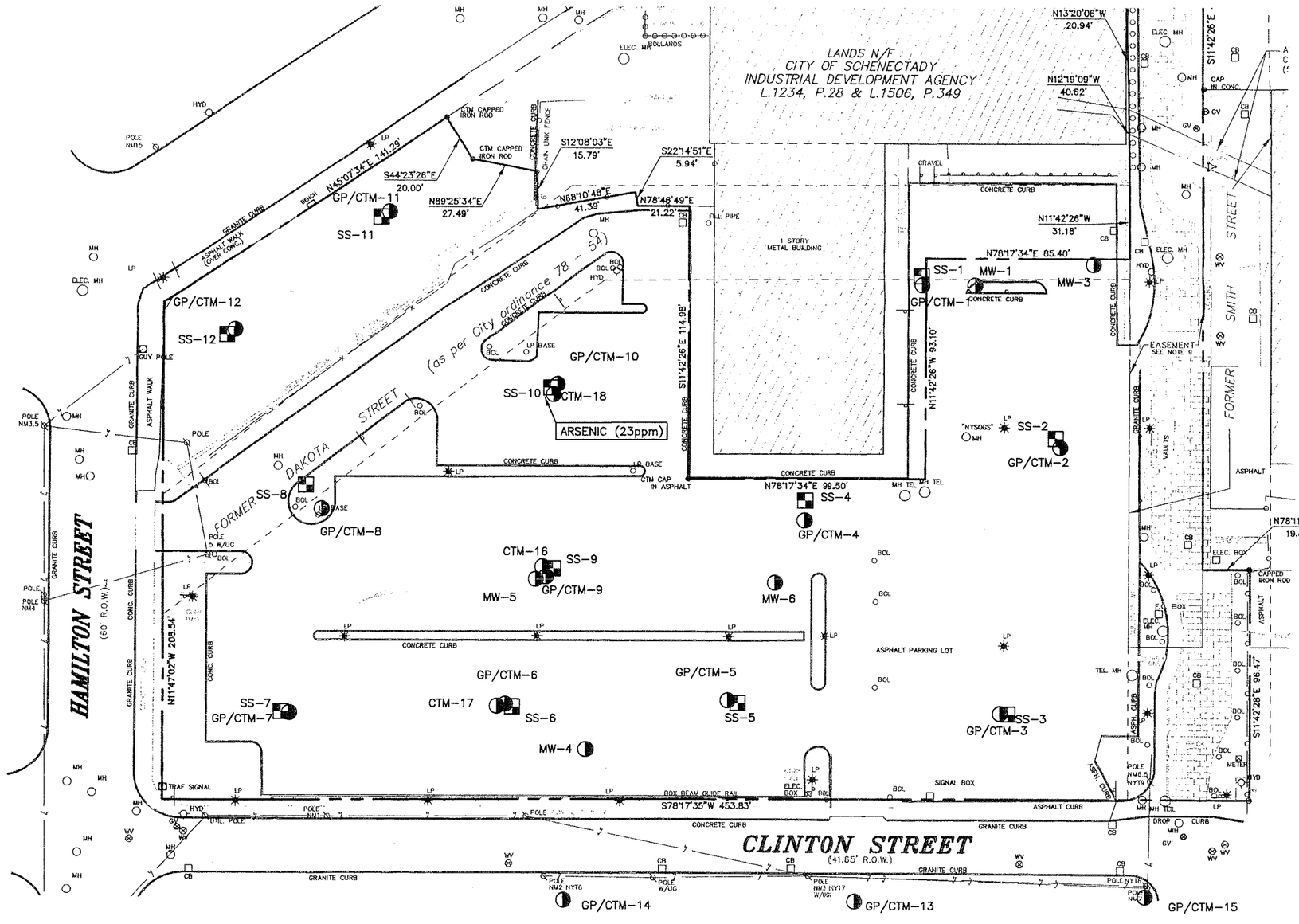

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SCALE : 1"=50'
DATE : JUNE 6, 2006

FIGURE 7
METALS ABOVE SCG's IN NEAR-SURFACE SOIL SAMPLES
ENVIRONMENTAL RESTORATION PROGRAM INVESTIGATION
CLINTON SOUTH PARKING LOT/314 CLINTON STREET

CITY OF SCHENECTADY — SCHENECTADY COUNTY, NY.

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SHEET 6 OF 9
DWG. NO: 07–115

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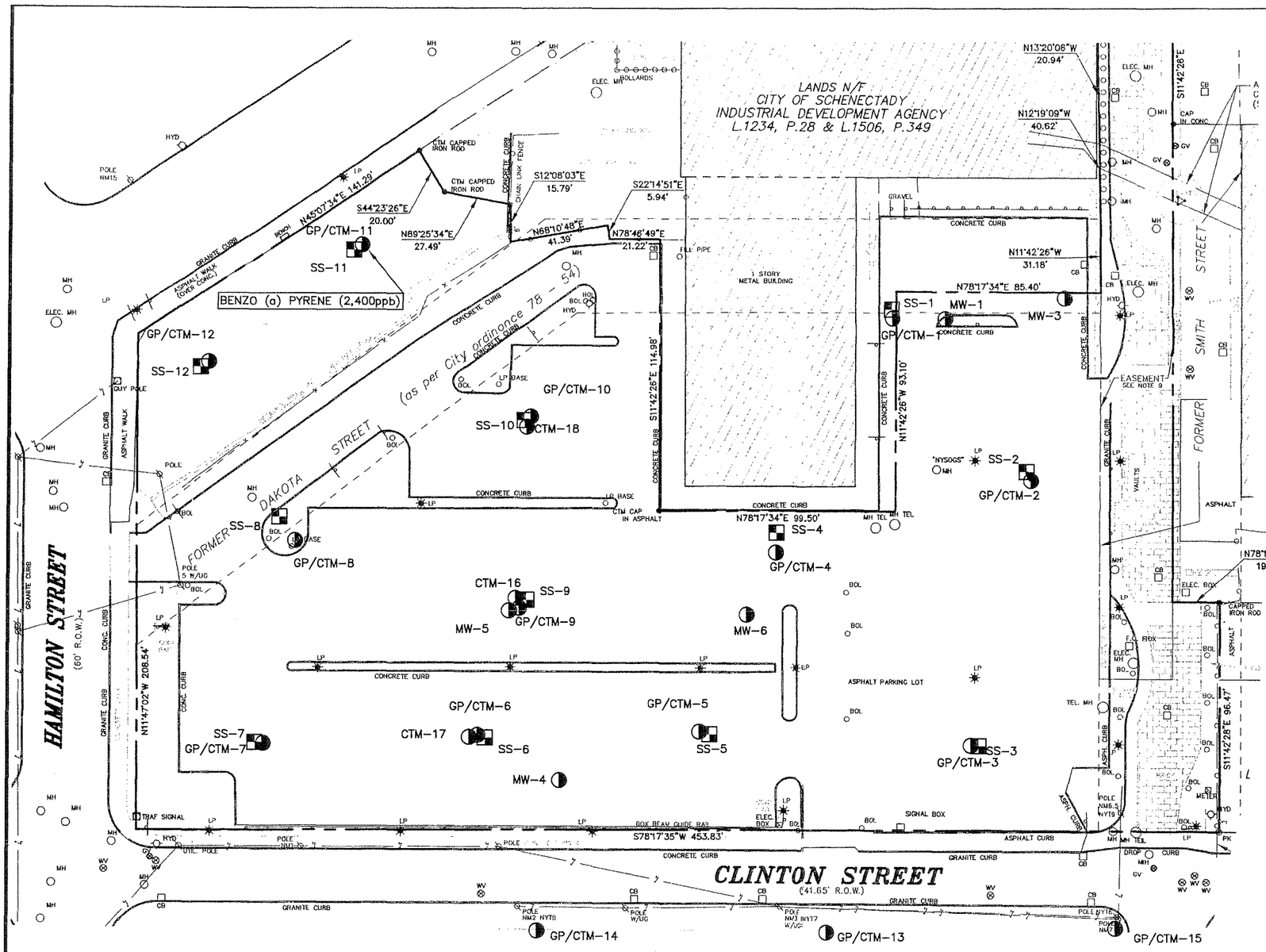

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PPB	PARTS PER BILLION

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

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APPROVED:
DRAFTED : S.WUNSCH
CHECKED : J. FAVREAU
PROJ. NO: 05.5551
SCALE : 1"=50'
DATE : JAN 8, 2007

FIGURE 8
SVOCs ABOVE SCGs IN SUBSURFACE SOIL SAMPLES
ENVIRONMENTAL RESTORATION PROGRAM INVESTIGATION
CLINTON SOUTH PARKING LOT/314 CLINTON STREET

CITY OF SCHENECTADY — SCHENECTADY COUNTY, NY.

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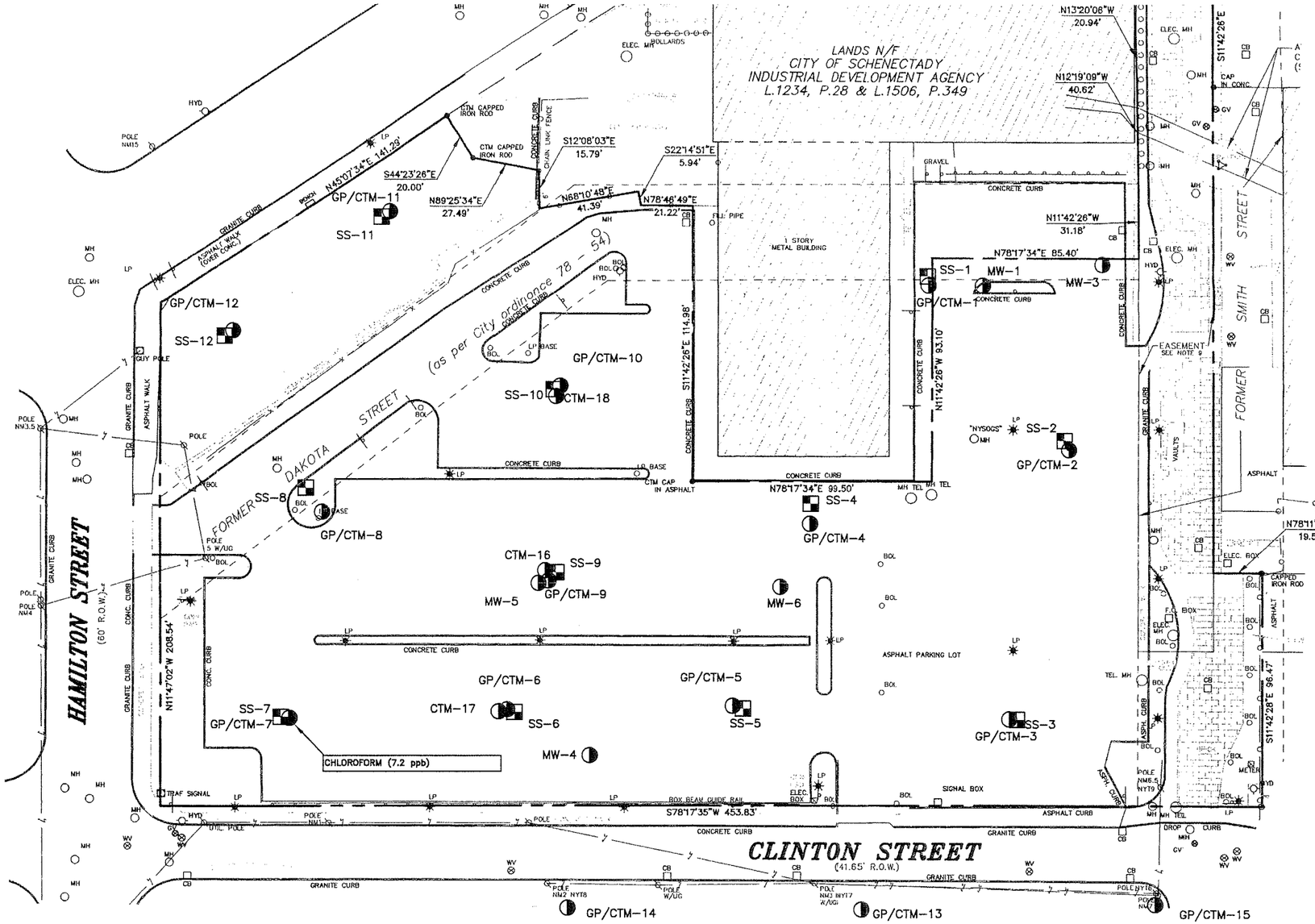

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PPB	PARTS PER BILLION

BAR SCALE

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APPROVED:

DRAFTED : S.WUNSCH

CHECKED :

PROJ. NO: 05.5551

SCALE : 1"=50'

DATE : JAN 8, 2007

FIGURE 9
VOCs ABOVE SCGs IN GROUNDWATER SAMPLES

ENVIRONMENTAL RESTORATION PROGRAM INVESTIGATION
CLINTON SOUTH PARKING LOT/314 CLINTON STREET

CITY OF SCHENECTADY — SCHENECTADY COUNTY, NY.

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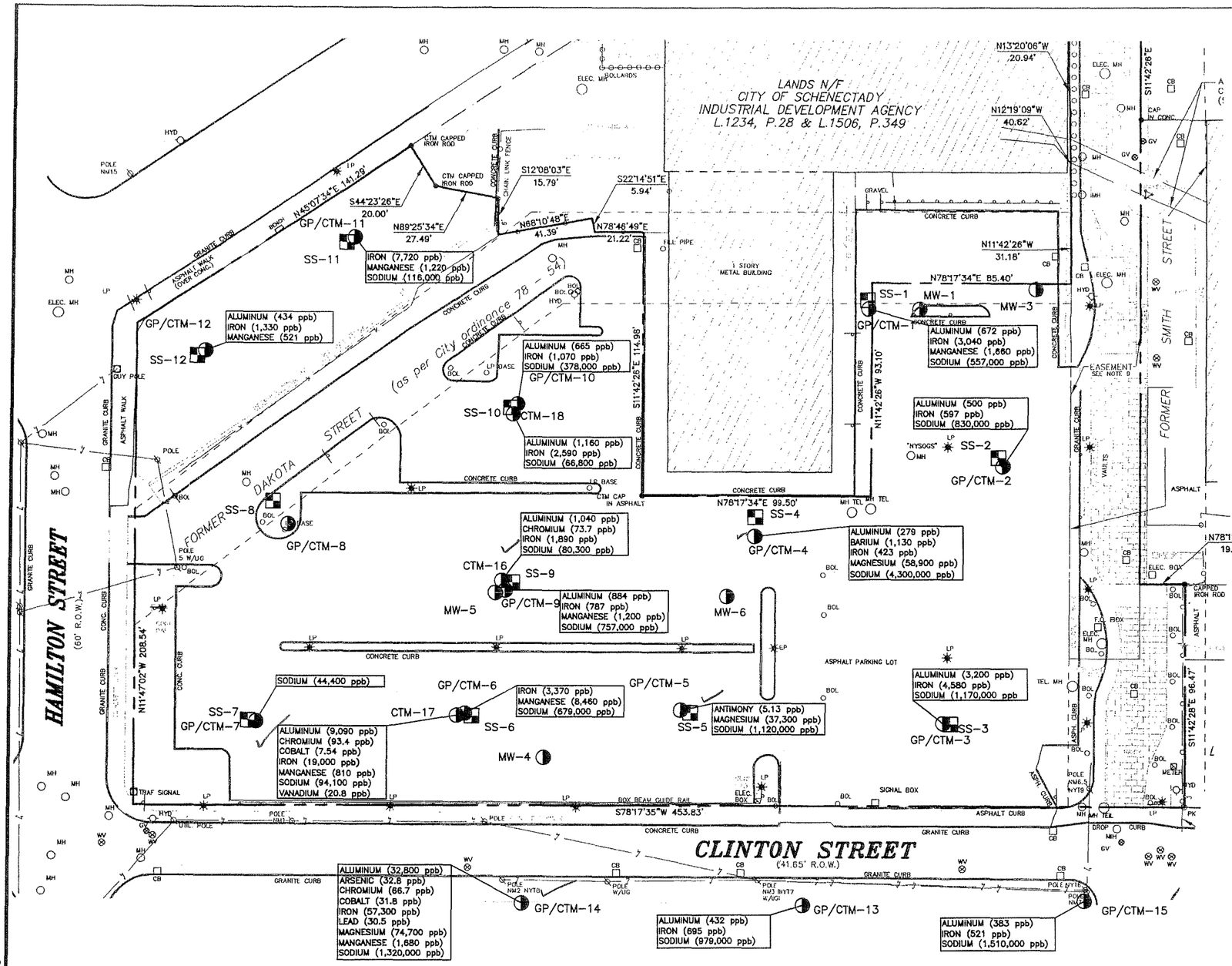

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NM15	UTILITY POLE
WV	WATER VALVE
GP/CTM-1	MONITORING WELL LOCATION (WELLS INSTALLED BY C.T. MALE APRIL 2006)
MW-1	MONITORING WELL LOCATION (WELLS INSTALLED BY C.T. MALE APRIL/MAY 2004)
SS	NEAR-SURFACE SOIL SAMPLE LOCATION (SAMPLES COLLECTED BY C.T. MALE MAY 2006)
PPB	PARTS PER BILLION

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTED	CHECK	APPR.
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			

APPROVED:
DRAFTED : S.WUNSCH
CHECKED : J. FAVREAU
PROJ. NO: 05.5551
SCALE : 1"=50'
DATE : JAN 8, 2007

FIGURE 10
METALS ABOVE SCGs IN GROUNDWATER SAMPLES
ENVIRONMENTAL RESTORATION PROGRAM INVESTIGATION
CLINTON SOUTH PARKING LOT/314 CLINTON STREET

CITY OF SCHENECTADY — SCHENECTADY COUNTY, NY.

C.T. MALE ASSOCIATES, P.C.
50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110
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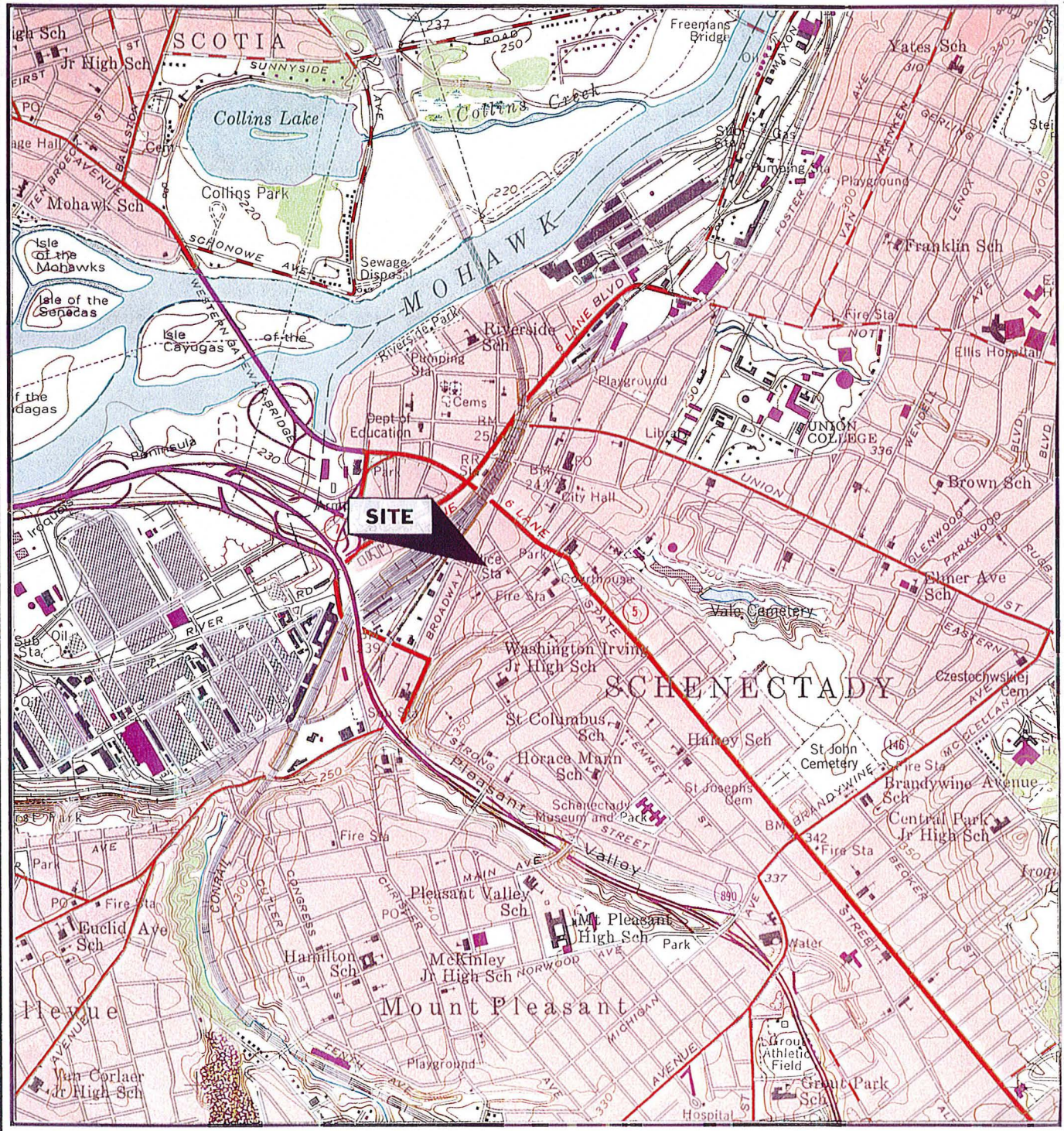
ARCHITECTURE & BUILDING SYSTEMS ENGINEERING * CIVIL ENGINEERING
ENVIRONMENTAL SERVICES * SURVEY & LAND INFORMATION SERVICES

SHEET 9 OF 9
DWG. NO: 07-115

CAD DWG. FILE NAME\RI_REPORT_ MS_CLINTON.DWG



MAP REFERENCE

United States Geological Survey
7.5 Minute Series Topographic Map
Quadrangle: Schenectady, NY
Date: 1980

ENGINEERING
ENVIRONMENTAL SERVICES
SURVEYING
PHONE (518)786-7400
FAX (518) 786-7299

C.T.MALE ASSOCIATES, P.C.
50 CENTURY HILL DRIVE, PO BOX 727, LATHAM, NY 12110

FIGURE 1 - SITE LOCATION MAP

CLINTON SOUTH PARKING LOT

CITY OF SCHENECTADY	SCHENECTADY COUNTY, NY
SCALE: 1"=2,000'	
DRAFTER: ASG	
PROJECT No. 04.9227	

TABLES

TABLE 1
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SURFACE AND NEAR-SURFACE SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	DUP-2	SS-10	SS-11	SS-12
Lab Sample Number		X2608-01	X2608-02	X2608-03	X2608-04	X2608-06	X2608-07	X2608-08	X2608-09	X2608-12	X2608-13	X2608-14	X2608-15	X2608-16
Sampling Date		05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)													
Acetone	500,000	18 U	19 U	57 J	19 U	19 U	18 U	20 U	20 UJ	19 U	19 U	18 U	22 U	20 U
Toluene	500,000	7.7 J	2.3 U	2.2 U	2.3 U	2.3 U	2.2 U	2.4 U	2.4 U	2.3 U	7.1 J	2.2 U	2.6 U	2.4 U
Tetrachloroethene	500,000	3.9 U	4.1 U	4.0 U	4.2 U	4.2 U	3.9 U	4.4 U	4.4 U	7.1 J	4.1 UJ	4.0 U	4.7 U	4.2 U
m/p-Xylenes	500,000	4.6 U	4.8 U	4.7 U	5.0 U	4.9 U	4.7 U	5.2 U	5.2 U	5.0 U	6.9 J	4.8 U	5.5 U	5.0 U
Total Confident Conc. VOC		7.7	0	57	0	0	0	0	0	7.1	14	0	0	0
Total TICs		0	0	0	0	0	0	0	0	0	0	0	0	0

Qualifiers and Notes
U - The compound was not detected at or above the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
ug/kg - Micrograms per Kilogram

TABLE 2
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SURFACE AND NEAR-SURFACE SOIL ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID			SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	DUP-2
Lab Sample Number			X2608-01	X2608-02	X2608-03	X2608-04	X2608-06	X2608-07	X2608-08	X2608-09	X2608-12	X2608-13
Sampling Date			05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1.0	1.0	1.0	5.0	2.0	10.0	1.0	1.0	10.0	10.0
Units	Res Res		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	100	Part 375 SCG (ug/Kg)										
Acenaphthene	100,000	500,000	64 U	66 U	65 U	900 J	130 U	640 U	71 U	71 U	660 U	670 U
Phenanthrene	100,000	500,000	76 J	300 J	460	8900	840	580 U	63 U	260 J	590 U	600 U
Anthracene	"	500,000	55 U	99 J	95 J	2000	200 J	550 U	60 U	60 U	560 U	560 U
Carbazole		n/a	55 U	57 U	57 J	1000 J	120 U	550 U	60 U	61 U	560 U	570 U
Fluoranthene	"	500,000	220 J	120 J	1000	9900	1600	540 U	59 U	630	550 U	560 U
Pyrene	"	500,000	230 J	210 J	1300	11000	1700	640 U	70 U	790 UJ	650 U	660 U
Benzo(a)anthracene	1000	5,600	120 J	76 J	590	5400	850	510 U	55 U	330 J	520 U	520 U
Chrysene	3900	n/a	150 J	80 J	670	5900	900	650 U	71 U	400 J	660 U	670 U
bis(2-Ethylhexyl)phthalate	"	n/a	69 U	71 U	70 U	360 U	150 U	690 U	76 U	150 J	710 U	720 U
Benzo(b)fluoranthene	1000	5,600	160 J	41 U	840 J	5500	920	400 UJ	44 U	460 J	410 UJ	410 UJ
Benzo(k)fluoranthene	3900	5,600	81 J	82 U	380 J	2600	420 J	800 UJ	87 U	240 J	810 UJ	820 UJ
Benzo(a)pyrene	1000	1,000	100 J	59 U	500 J	3900	660 J	580 UJ	63 U	290 J	590 UJ	600 UJ
Indeno(1,2,3-cd)pyrene	500	5,600	46 U	47 U	46 U	820 J	130 J	460 UJ	50 U	51 UJ	470 UJ	470 UJ
Benzo(g,h,i)perylene	100,000	500,000	60 U	61 U	140 J	960 J	170 J	600 UJ	65 U	77 J	610 UJ	620 UJ
Total Confident Conc. SVOC			1137	985	6032	60240	8390	0	0	3627	0	0
Total TICs			2704	3575	3687	21440	3970	4450	2890	8190	6200	3800

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
ug/kg - Micrograms per kilogram

TABLE 3
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SURFACE AND NEAR-SURFACE SOIL ANALYTICAL RESULTS - PESTICIDES
(DETECTED PESTICIDES ONLY)

Sample ID		SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	DUP-2
Lab Sample Number		X2608-01	X2608-02	X2608-03	X2608-04	X2608-06	X2608-07	X2608-08	X2608-09	X2608-12	X2608-13
Sampling Date		05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)										
4,4-DDE	62,000	0.86 U	0.88 U	0.87 U	0.89 U	0.90 U	0.86 U	0.94 U	0.95 U	4.7 J	5.8
4,4-DDT	47,000	0.78 U	0.81 U	0.80 U	0.82 U	0.82 U	0.78 UJ	0.86 U	0.87 U	33 J	27

Sample ID		SS-10	SS-11	SS-12	EQUIPBLANK-2
Lab Sample Number		X2608-14	X2608-15	X2608-16	X2608-05
Sampling Date		05/01/06	05/01/06	05/01/06	05/01/06
Matrix		SOIL	SOIL	SOIL	WATER
Dilution Factor		1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/L
COMPOUND	Part 375 SCG (ug/Kg)				
4,4-DDE	62,000	0.87 U	1.8 JP	0.91 U	0.0074 U
4,4-DDT	47,000	0.79 UJ	0.91 U	0.83 U	0.0066 U

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
ug/Kg - Micrograms per kilogram

TABLE 4
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SURFACE AND NEAR-SURFACE SOIL ANALYTICAL RESULTS - TAL METALS
(DETECTED METALS ONLY)

Sample ID		SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	DUP-2	SS-10	SS-11	SS-12	EQUIPBLANK-2
Lab Sample Number		X2608-01	X2608-02	X2608-03	X2608-04	X2608-06	X2608-07	X2608-08	X2608-09	X2608-12	X2608-13	X2608-14	X2608-15	X2608-16	X2608-05
Sampling Date		05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	ug/L
COMPOUND	Part 375 SCG (mg/Kg)														
Aluminum	n/a	9170	5760	5370	6490	8260	6340	7600	8050	5110	5580	6880	5170	4380	64.8 J
Antimony	n/a	10.9	0.363 U	3.850 U	3.020 U	13.6	0.353 U	12.7	4.840 UJ	0.369 U	2.640 U	7.050	1.580 U	1.040 U	3.170 U
Arsenic 16	16	5.580	4.090	4.150	4.340	6.460	4.190	4.340	4.230	5.890	6.970	23.0	3.170	3.100	3.690 J
Barium 400	400	56.6	72.1	95.3	159	142	46.8	52.3	70.8	106	108	134	36.2	20.9 J	1.240 J
Beryllium 72	590	0.392 J	0.261 J	0.205 J	0.291 J	0.405 J	0.260 J	0.354 J	0.386 J	0.279 J	0.292 J	0.302 J	0.234 J	0.208 J	0.660 J
Cadmium 4.3	9.3	0.245 J	0.123 J	0.196 J	0.333 J	0.314 J	0.119 J	0.190 J	0.236 J	0.320 J	0.408 J	0.242 J	0.166 J	0.068 J	0.327 U
Calcium	n/a	27300	40000	51200	5320	2840	10700	29900	4820	25100 J	19500 J	23800	8880	10500	1.170 U
Chromium 180	1,900	13.1	7.450	8.130	9.180	14.5	10.4	25.9	14.2	8.670	10.3	10.5	26.3	6.640	0.343 U
Cobalt	n/a	8.220	3.550 J	3.620 J	4.320 J	5.830	4.380 J	7.270	7.820	4.550 J	4.670 J	4.790 J	4.230 J	3.220 J	0.370 U
Copper 270	200	25.2	10.4	29.4	21.0	35.2	12.6	18.4	18.5	69.1 J	35.6 J	20.2	17.7	12.4	3.640 U
Iron	n/a	19500	8750	9050	10200	12300	8070	14900	17100	9700	9700	11000	10200	8890	27.0 U
Lead 400	1,000	22.6	245	239	237	306	98.9	13.4	27.2	402	459	327	34.3	13.8	2.180 U
Magnesium	n/a	8390	3090	7580	1640	2300	4420	6380	3200	11000	7620	6510	3070	2270	8.300 U
Manganese 2000	10,000	495	195	213	204	175	159	351	463	210	220	208	254	224	0.106 U
Mercury .81	2.8	0.047	0.683	0.428	0.547	0.435 J	0.221 J	0.056 J	0.053 J	0.453 J	0.542 J	0.508 J	0.08 J	0.09 J	0.03 U
Nickel 310	310	20.1	8.350	14.4	9.680	14.6	10.6	18.4	19.5	11.7	12.3	11.4	15.1	7.930	1.560 U
Potassium	n/a	1180	893	906	602	1270	767	1120	1380 J	747	889	880	811	576 J	61.8 U
Sodium	n/a	340 U	807 J	1600 J	1470 J	3270 J	534 J	1300 J	817 J	305 U	319 U	801 J	170 U	199 U	332 UJ
Vanadium	n/a	18.6	12.7	16.3	12.2	18.0	13.3	18.0	19.4	14.6	16.5	16.3	12.6	10.9	0.701 U
Zinc 10000	10,000	77.1	108	89.2	175	190	49.8	55.2	74.2	135	149	112	69.3	42.4	0.611 U

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
mg/Kg - Milligrams per kilogram (or parts per million)

TABLE 5
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SUBSURFACE SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		GP-1(6-8)	GP-2(6-8)	GP-3(6-8)	GP-4(4-6)	GP-5(10-12)	GP-6(10-12)	GP-7(4-8)
Lab Sample Number		X2527-01	X2527-02	X2527-03	X2527-04	X2527-05	X2594-01	X2594-02
Sampling Date		04/25/06	04/25/06	04/25/06	04/25/06	04/25/06	04/27/06	04/27/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)							
Acetone	500,000	81 J	19 U	20 U	20 UJ	50 J	20 U	20 U
Methylene Chloride	500,000	34 J	10 UJ	14 J	11 UJ	9.7 UJ	11 UJ	11 UJ
cis-1,2-Dichloroethene	n/a	45	1.8 U	1.9 U	1.9 U	1.7 UJ	1.9 U	2.0 UJ
Trichloroethene	200,000	6.9 J	1.8 U	1.8 U	1.8 U	1.6 U	1.8 U	1.9 U
Toluene	500,000	2.5 U	2.3 U	2.4 U	2.4 U	2.2 U	4.0 J	2.5 U
Tetrachloroethene	150,000	11 J	4.1 U	4.3 U	4.3 U	3.9 U	4.3 U	4.5 U
Total Confident Conc. VOC		177.9	0	14	0	50	4	0
Total TICs		0	0	0	0	0	0	0

Sample ID		GP-8(10-12)	DUP-1	GP-9(10-12)	GP-10(10-12)	GP-11(4-6)	GP-12(4-8)	EQUIPBLANK-1	GP-13(10-12)	GP-14(12-14)	GP-15(8-10)
Lab Sample Number		X2594-05	X2594-06	X2594-07	X2594-08	X2594-11	X2594-12	X2594-09	X2621-01	X2621-02	X2621-03
Sampling Date		04/27/06	04/27/06	04/27/06	04/27/06	04/28/06	04/28/06	04/28/06	05/02/06	05/02/06	05/02/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)										
Acetone	500,000	19 U	20 U	19 U	20 U	100 J	75 J	2.3 U	22 U	21 U	20 U
Methylene Chloride	500,000	11 UJ	11 UJ	10 UJ	11 UJ	10 UJ	11 UJ	1.4 J	12 UJ	11 UJ	11 UJ
cis-1,2-Dichloroethene	n/a	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	0.29 U	2.1 U	2.0 U	2.0 U
Trichloroethene	200,000	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	0.46 U	2.0 U	1.9 U	1.9 U
Toluene	500,000	2.3 U	2.4 U	2.3 U	2.4 U	2.3 U	3.6 J	0.36 U	2.7 U	2.5 U	2.4 U
Tetrachloroethene	150,000	4.2 U	4.3 U	4.2 U	4.4 U	4.2 U	4.4 U	0.48 U	4.8 U	4.5 U	4.4 U
Total Confident Conc. VOC		0	0	0	0	100	78.6	1.4	0	0	0
Total TICs		0	0	0	0	0	0	0	0	0	0

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
n/a - Not Applicable (no established standard)
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
ug/kg - Micrograms per Kilogram

TABLE 6
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SUBSURFACE SOIL ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		GP-1(6-8)	GP-2(6-8)	GP-3(6-8)	GP-4(4-6)	GP-5(10-12)	GP-6(10-12)	GP-7(4-8)
Lab Sample Number		X2527-01	X2527-02	X2527-03	X2527-04	X2527-05	X2594-01	X2594-02
Sampling Date		04/25/06	04/25/06	04/25/06	04/25/06	04/25/06	04/27/06	04/27/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)							
Acenaphthylene	500,000	67 U	61 U	63 U	63 U	57 U	64 U	84 J
Acenaphthene	500,000	73 U	66 U	69 U	69 U	63 U	70 U	71 U
Dibenzofuran	n/a	68 U	62 U	64 U	64 U	59 U	65 U	66 U
Fluorene	500,000	69 U	63 U	65 U	65 U	60 U	66 U	130 J
Phenanthrene	500,000	66 U	59 U	62 U	62 U	56 U	62 U	2400 J
Anthracene	500,000	62 U	56 U	59 U	58 U	53 U	59 U	390 J
Carbazole	n/a	63 U	57 U	59 U	59 U	54 U	60 U	270 J
Fluoranthene	500,000	61 U	56 U	58 U	57 U	53 U	58 U	3200 J
Pyrene	500,000	73 U	66 U	69 U	68 U	63 U	69 U	2200 J
Benzo(a)anthracene	5,600	58 U	52 U	54 U	54 U	50 U	55 U	1100 J
Chrysene	n/a	74 U	67 U	70 U	69 U	64 U	70 U	970 J
Benzo(b)fluoranthene	5,600	45 UJ	41 UJ	43 UJ	42 UJ	39 UJ	43 UJ	1100 J
Benzo(k)fluoranthene	56,000	90 U	82 UJ	85 UJ	85 UJ	78 UJ	86 U	430 J
Benzo(a)pyrene	1,000	66 U	60 U	62 U	62 U	57 U	63 U	860 J
Indeno(1,2,3-cd)pyrene	5,600	52 UJ	47 UJ	49 UJ	49 UJ	45 UJ	50 UJ	320 J
Benzo(g,h,i)perylene	500,000	68 UJ	62 UJ	64 UJ	64 UJ	59 UJ	65 UJ	300 J
Total Confident Conc. SVOC		0	0	0	0	0	0	13754
Total TICs		2170	4300	3400	2420	2700	2850	5306

Sample ID		GP-8(10-12)	DUP-1	GP-9(10-12)	GP-10(10-12)	GP-11(4-6)	GP-12(4-8)	EQUIPBLANK-1	GP-13(10-12)	GP-14(12-14)	GP-15(8-10)
Lab Sample Number		X2594-05	X2594-06	X2594-07	X2594-08	X2594-11	X2594-12	X2594-09	X2621-01	X2621-02	X2621-03
Sampling Date		04/27/06	04/27/06	04/27/06	04/27/06	04/28/06	04/28/06	04/28/06	05/02/06	05/02/06	05/02/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	10.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)										
Acenaphthylene	500,000	62 U	64 U	60 U	65 U	620 U	66 U	2.7 U	70 U	66 U	64 U
Acenaphthene	500,000	68 U	71 U	66 U	71 U	1100 J	72 U	2.8 U	77 U	72 U	70 U
Dibenzofuran	n/a	63 U	66 U	61 U	66 U	740 J	67 U	2.7 U	71 U	67 U	65 U
Fluorene	500,000	65 U	67 U	62 U	68 U	950 J	69 U	2.9 U	73 U	69 U	67 U
Phenanthrene	500,000	61 U	63 U	59 U	64 U	10000	65 U	3.0 U	69 U	65 U	63 U
Anthracene	500,000	58 U	60 U	56 U	60 U	1900 J	61 U	2.9 U	65 U	61 U	60 U
Carbazole	n/a	58 U	61 U	56 U	61 U	880 J	62 U	2.7 U	66 U	62 U	60 U
Fluoranthene	500,000	57 U	59 U	55 U	60 U	9700	61 U	2.5 U	64 U	61 U	59 U
Pyrene	500,000	68 U	70 U	65 U	71 U	9700	72 U	3.0 U	76 U	72 U	70 U
Benzo(a)anthracene	5,600	54 U	55 U	52 U	56 U	3300	57 U	2.3 U	61 U	57 U	55 U
Chrysene	n/a	69 U	71 U	66 U	72 U	9500 J	73 U	3.5 U	78 U	73 U	71 U
Benzo(b)fluoranthene	5,600	42 U	44 U	41 U	44 U	3800 J	45 UJ	1.6 UJ	48 U	57 J	44 U
Benzo(k)fluoranthene	56,000	84 U	87 U	81 U	88 U	1300 J	90 U	3.9 U	95 U	90 U	87 U
Benzo(a)pyrene	1,000	61 U	63 U	59 U	64 U	2400 J	65 U	2.4 U	69 U	65 U	63 U
Indeno(1,2,3-cd)pyrene	5,600	49 U	50 U	47 U	51 U	480 U	52 UJ	1.7 U	55 U	52 U	50 U
Benzo(g,h,i)perylene	500,000	63 U	66 U	61 U	66 U	630 UJ	67 UJ	2.3 U	71 U	67 U	65 U
Total Confident Conc. SVOC		0	0	0	0	49370	0	0	0	57	0
Total TICs		4340	3420	4280	3400	11360	2670	256	3810	2990	3550

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
ug/Kg - Micrograms per kilogram

TABLE 8
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SUBSURFACE SOIL ANALYTICAL RESULTS - TAL METALS
(DETECTED METALS ONLY)

Sample ID		GP-1(6-8)	GP-2(6-8)	GP-3(6-8)	GP-4(4-6)	GP-5(10-12)	GP-6(10-12)	GP-7(4-8)
Lab Sample Number		X2527-01	X2527-02	X2527-03	X2527-04	X2527-05	X2594-01	X2594-02
Sampling Date		04/25/06	04/25/06	04/25/06	04/25/06	04/25/06	04/27/06	04/27/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND	Part 375 SCG (mg/Kg)							
Aluminum	n/a	4180	4040	9660	4180	3770	4620	8490 J
Antimony	n/a	21.9	5.1 J	11.6	0.38 U	0.52 U	0.391 U	1.550 U
Arsenic	16	3.7 U	0.44 U	4.1 U	0.46 U	2.3	1.520	2.790
Barium	400	11.8 J	12.9 J	184	9.6 J	14.1 J	16.1 J	54.6 J
Beryllium	590	0.36 J	0.20 J	0.90	0.14 J	0.21 U	0.200 J	0.388 J
Cadmium	9.3	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.039 U	0.166 J
Calcium	n/a	1500	1120	1900	786	935	1360	4070
Chromium	1900	12.2	6.8	16.0	4.3	5.8	10.8	10.9
Cobalt	n/a	6.5	3.3 J	6.2	1.6 J	3.2 J	4.200 J	5.900 J
Copper	270	9.3	4.8	20.9	3.8	6.0	7.800	23.1 J
Iron	n/a	5240	7510	15600	4800	6490	14900	14100
Lead	1000	4.3	3.4	11.1	3.3	3.4	4.820	228
Magnesium	n/a	1390	1100	2540	962	1180	1470	2770
Manganese	10000	39.5	49.3	79.2	43.3	68.1	88.8	193
Mercury	2.8	0.007 U	0.007 U	0.027	0.011 J	0.006 U	0.008 J	0.136 J
Nickel	310	6.8	4.9	12.8	4.9	5.1	9.040	13.4 J
Potassium	n/a	628	493 J	673	413 J	550	489 J	812
Selenium	1500	0.75 J	0.39 U	0.39 U	0.40 U	0.37 U	0.407 U	0.418 U
Sodium	n/a	916 J	350 J	808 J	408 J	122 J	227 U	269 U
Thallium	n/a	1.1 J	2.0	1.6	1.1 J	0.57 U	0.629 U	0.647 U
Vanadium	n/a	13.5	14.2	36.6	6.4	13.7	31.4	19.8
Zinc	10000	20.5	19.2	46.9	31.9	18.5	29.5	201

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
n/a - Not Applicable (no established Eastern USA Background)
mg/Kg - Milligrams per kilogram (or parts per million)

TABLE 9
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		CTM-13	CTM-14	CTM-15	CTM-16	CTM-17	CTM-18	GW-EQUIP.BLANK
Lab Sample Number		X3247-05	X3247-07	X3247-06	X3164-02	X3164-01	X3164-05	X3247-01
Sampling Date		06/12/06	06/12/06	06/12/06	06/07/06	06/07/06	06/07/06	06/12/06
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	SCG (ug/L)							
Acetone	50	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	25 J
Methylene Chloride	5	0.43 UJ	0.43 UJ	0.43 UJ	0.43 UJ	0.43 U	0.43 U	3.6 J
cis-1,2-Dichloroethene	5	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Chloroform	7	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methylcyclohexane	n/a	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 U
Bromodichloromethane	50	0.33 U	0.33 U	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 UJ
Dibromochloromethane	50	0.26 U	0.26 U	0.26 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U
Tetrachloroethene	5	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 U
Total Confident Conc. VOC		0	0	0	0	0	0	28.6
Total TICs		0	0	0	0	0	0	0

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
SCG - Standards, Criteria & Guidance level (Reference: NYSDEC *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, June 1998)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
ug/L - Micrograms per Liter

TABLE 10
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		CTM-1	CTM-2	CTM-3	CTM-4	CTM-5	CTM-6	CTM-7	CTM-9	GW-DUP	CTM-10	CTM-11	CTM-12
Lab Sample Number		X3205-01	X3205-02	X3205-03	X3205-04	X3205-05	X3235-01	X3235-02	X3235-05	X3235-08	X3235-06	X3247-03	X3247-04
Sampling Date		06/08/06	06/08/06	06/08/06	06/08/06	06/08/06	06/09/06	06/09/06	06/09/06	06/09/06	06/09/06	06/12/06	06/12/06
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	SCG (ug/L)												
bis(2-Ethylhexyl)phthalate	5	1.9 U	1.9 U	2.1 J	1.9 J	1.7 U	1.6 U	1.6 U	1.9 U	1.9 U	1.9 U	1.6 U	1.9 U
Total Confident Conc. SVOC		0	0	2.1	1.9	0	0	0	0	0	0	0	0
Total TICs		67.6	26.3	49.5	38	25	73.2	29.5	41.9	68.7	70.8	45.8	44.2

Sample ID		CTM-13	CTM-14	CTM-15	CTM-16	CTM-17	CTM-18	GW-EQUIP.BLANK
Lab Sample Number		X3247-05	X3247-07	X3247-06	X3164-02	X3164-01	X3164-05	X3247-01
Sampling Date		06/12/06	06/12/06	06/12/06	06/07/06	06/07/06	06/07/06	06/12/06
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	SCG (ug/L)							
bis(2-Ethylhexyl)phthalate	5	1.9 U	1.8 U	1.9 U	1.6 U	1.6 U	1.6 U	1.6 U
Total Confident Conc. SVOC		0	0	0	0	0	0	0
Total TICs		44.4	64.7	46.9	32	21	25	26.5

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
SCG - Standards, Criteria & Guidance level (Reference: NYSDEC *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, June 1998)
Values in **bold** print denote exceedence of SCG.
ug/L - Micrograms per Liter

TABLE 11
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - TAL METALS
(DETECTED METALS ONLY)

Sample ID		CTM-12	CTM-13	CTM-14	CTM-15	CTM-16	CTM-17	CTM-18	GW-EQUIP.BLANK
Lab Sample Number		X3247-04	X3247-05	X3247-07	X3247-06	X3164-02	X3164-01	X3164-05	X3247-01
Sampling Date		06/12/06	06/12/06	06/12/06	06/12/06	06/07/06	06/07/06	06/07/06	06/12/06
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	SCG (ug/L)								
Aluminum	100	**434**	**432**	**32800**	**383**	**1040**	**9090**	**1160**	36.6 J
Antimony	3	3.170 U	3.170 U	3.170 U	3.170 U	3.170 U	3.170 U	3.170 U	3.170 U
Arsenic	25	3.320 U	5.060 J	**32.8**	3.320 U	3.320 U	3.320 U	3.320 U	3.320 U
Barium	1,000	74.3 J	430	476	539	26.3 J	120 J	67.3 J	0.723 U
Beryllium	3	0.090 U	0.090 U	1.760 J	0.090 U	0.090 U	0.400 J	0.090 U	0.090 U
Calcium	n/a	135000	273000	379000	328000	16600	95900	55900	54.8 J
Chromium	50	1.120 U	0.560 U	**66.7**	1.690 U	**73.7**	**93.4**	23.9	0.500 J
Cobalt	5	0.370 U	0.370 U	**31.8 J**	4.700 J	0.370 U	**7.540 J**	0.370 U	0.370 U
Copper	200	4.590 J	3.830 J	97.5	3.640 U	10.7 J	39.5	9.920 J	3.640 U
Iron	300	**1330**	**695**	**57300**	**521**	**1890**	**19000**	**2590**	27.0 U
Lead	25	2.180 U	2.180 U	**30.5**	2.180 U	2.180 U	8.690	2.180 U	2.180 U
Magnesium	35,000	14900	30100	**74700**	25700	4420 J	20900	16300	46.5 J
Manganese	300	**521**	41.0	**1680**	37.3	144	**810**	208	0.106 U
Mercury	0.7	0.05 U	0.03 U	0.26	0.06 U	0.03 U	0.03U	0.03 U	0.05 J
Nickel	100	1.560 U	1.560 U	68.6	4.440 J	34.3 J	53.3	8.520 J	1.560 U
Potassium	n/a	12800	24100	61200	20900	2180 J	5420	6180	467 J
Selenium	10	3.040 U	3.860 J	6.740 J	3.040 U	3.040 U	3.040 U	3.040 U	3.040 U
Sodium	20,000	14700	**979000**	**1320000**	**1510000**	**80300 J**	**94100**	**66800**	2840 J
Thallium	0.5	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U
Vanadium	14	3.420 U	2.110 U	**128**	4.310 U	0.701 U	**20.8 J**	1.100 J	1.230 J
Zinc	2,000	29.6 U	26.4 U	271	24.5 U	22.4	81.9	22.1	20.1

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
SCG - Standards, Criteria & Guidance level (Reference: NYSDEC *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, June 1998)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
ug/kg - Micrograms per kilogram

TABLE 2
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SURFACE AND NEAR-SURFACE SOIL ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		SS-10	SS-11	SS-12	EQUIPBLANK-2
Lab Sample Number		X2608-14	X2608-15	X2608-16	X2608-05
Sampling Date		05/01/06	05/01/06	05/01/06	05/01/06
Matrix		SOIL	SOIL	SOIL	WATER
Dilution Factor		10.0	10.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/L
COMPOUND	Part 375 SCG (ug/Kg)				
Acenaphthene	500,000	650 U	750 U	68 U	1.4 U
Phenanthrene	500,000	770 J	670 U	270 J	1.5 U
Anthracene	500,000	550 U	640 U	58 U	1.4 U
Carbazole	n/a	560 U	640 U	58 U	1.3 U
Fluoranthene	500,000	2800 J	630 U	590	1.2 U
Pyrene	500,000	5200	750 U	900	1.5 U
Benzo(a)anthracene	5,600	1900 J	590 U	380 J	1.1 U
Chrysene	n/a	1700 J	760 U	410	1.7 U
bis(2-Ethylhexyl)phthalate	n/a	700 U	810 U	230 J	1.6 U
Benzo(b)fluoranthene	5,600	2600 J	460 UJ	590 J	0.770 UJ
Benzo(k)fluoranthene	5,600	1000 J	930 UJ	270 J	1.9 U
Benzo(a)pyrene	1,000	1700 J	670 UJ	360 J	1.2 U
Indeno(1,2,3-cd)pyrene	5,600	460 U	540 UJ	49 U	0.850 UJ
Benzo(g,h,i)perylene	500,000	610 UJ	700 UJ	110 J	1.1 UJ
Total Confident Conc. SVOC		17670	0	4110	0
Total TICs		5860	6900	5855	197.8

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
ug/kg - Micrograms per kilogram

TABLE 3
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SURFACE AND NEAR-SURFACE SOIL ANALYTICAL RESULTS - PESTICIDES
(DETECTED PESTICIDES ONLY)

Sample ID		SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	DUP-2
Lab Sample Number		X2608-01	X2608-02	X2608-03	X2608-04	X2608-06	X2608-07	X2608-08	X2608-09	X2608-12	X2608-13
Sampling Date		05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06	05/01/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)										
4,4-DDE	62,000	0.86 U	0.88 U	0.87 U	0.89 U	0.90 U	0.86 U	0.94 U	0.95 U	4.7 J	5.8
4,4-DDT	47,000	0.78 U	0.81 U	0.80 U	0.82 U	0.82 U	0.78 UJ	0.86 U	0.87 U	33 J	27

Sample ID		SS-10	SS-11	SS-12	EQUIPBLANK-2
Lab Sample Number		X2608-14	X2608-15	X2608-16	X2608-05
Sampling Date		05/01/06	05/01/06	05/01/06	05/01/06
Matrix		SOIL	SOIL	SOIL	WATER
Dilution Factor		1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/L
COMPOUND	Part 375 SCG (ug/Kg)				
4,4-DDE	62,000	0.87 U	1.8 JP	0.91 U	0.0074 U
4,4-DDT	47,000	0.79 UJ	0.91 U	0.83 U	0.0066 U

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
ug/Kg - Micrograms per kilogram

TABLE 5
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SUBSURFACE SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		GP-1(6-8)	GP-2(6-8)	GP-3(6-8)	GP-4(4-6)	GP-5(10-12)	GP-6(10-12)	GP-7(4-8)
Lab Sample Number		X2527-01	X2527-02	X2527-03	X2527-04	X2527-05	X2594-01	X2594-02
Sampling Date		04/25/06	04/25/06	04/25/06	04/25/06	04/25/06	04/27/06	04/27/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)							
Acetone	500,000	81 J	19 U	20 U	20 UJ	50 J	20 U	20 U
Methylene Chloride	500,000	34 J	10 UJ	14 J	11 UJ	9.7 UJ	11 UJ	11 UJ
cis-1,2-Dichloroethene	n/a	45	1.8 U	1.9 U	1.9 U	1.7 UJ	1.9 U	2.0 UJ
Trichloroethene	200,000	6.9 J	1.8 U	1.8 U	1.8 U	1.6 U	1.8 U	1.9 U
Toluene	500,000	2.5 U	2.3 U	2.4 U	2.4 U	2.2 U	4.0 J	2.5 U
Tetrachloroethene	150,000	11 J	4.1 U	4.3 U	4.3 U	3.9 U	4.3 U	4.5 U
Total Confident Conc. VOC		177.9	0	14	0	50	4	0
Total TICs		0	0	0	0	0	0	0

Sample ID		GP-8(10-12)	DUP-1	GP-9(10-12)	GP-10(10-12)	GP-11(4-6)	GP-12(4-8)	EQUIPBLANK-1	GP-13(10-12)	GP-14(12-14)	GP-15(8-10)
Lab Sample Number		X2594-05	X2594-06	X2594-07	X2594-08	X2594-11	X2594-12	X2594-09	X2621-01	X2621-02	X2621-03
Sampling Date		04/27/06	04/27/06	04/27/06	04/27/06	04/28/06	04/28/06	04/28/06	05/02/06	05/02/06	05/02/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)										
Acetone	500,000	19 U	20 U	19 U	20 U	100 J	75 J	2.3 U	22 U	21 U	20 U
Methylene Chloride	500,000	11 UJ	11 UJ	10 UJ	11 UJ	10 UJ	11 UJ	1.4 J	12 UJ	11 UJ	11 UJ
cis-1,2-Dichloroethene	n/a	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	0.29 U	2.1 U	2.0 U	2.0 U
Trichloroethene	200,000	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	0.46 U	2.0 U	1.9 U	1.9 U
Toluene	500,000	2.3 U	2.4 U	2.3 U	2.4 U	2.3 U	3.6 J	0.36 U	2.7 U	2.5 U	2.4 U
Tetrachloroethene	150,000	4.2 U	4.3 U	4.2 U	4.4 U	4.2 U	4.4 U	0.48 U	4.8 U	4.5 U	4.4 U
Total Confident Conc. VOC		0	0	0	0	100	78.6	1.4	0	0	0
Total TICs		0	0	0	0	0	0	0	0	0	0

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
n/a - Not Applicable (no established standard)
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
ug/kg - Micrograms per Kilogram

TABLE 6
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SUBSURFACE SOIL ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		GP-1(6-8)	GP-2(6-8)	GP-3(6-8)	GP-4(4-6)	GP-5(10-12)	GP-6(10-12)	GP-7(4-8)
Lab Sample Number		X2527-01	X2527-02	X2527-03	X2527-04	X2527-05	X2594-01	X2594-02
Sampling Date		04/25/06	04/25/06	04/25/06	04/25/06	04/25/06	04/27/06	04/27/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)							
Acenaphthylene	500,000	67 U	61 U	63 U	63 U	57 U	64 U	84 J
Acenaphthene	500,000	73 U	66 U	69 U	69 U	63 U	70 U	71 U
Dibenzofuran	n/a	68 U	62 U	64 U	64 U	59 U	65 U	66 U
Fluorene	500,000	69 U	63 U	65 U	65 U	60 U	66 U	130 J
Phenanthrene	500,000	66 U	59 U	62 U	62 U	56 U	62 U	2400 J
Anthracene	500,000	62 U	56 U	59 U	58 U	53 U	59 U	390 J
Carbazole	n/a	63 U	57 U	59 U	59 U	54 U	60 U	270 J
Fluoranthene	500,000	61 U	56 U	58 U	57 U	53 U	58 U	3200 J
Pyrene	500,000	73 U	66 U	69 U	68 U	63 U	69 U	2200 J
Benzo(a)anthracene	5,600	58 U	52 U	54 U	54 U	50 U	55 U	1100 J
Chrysene	n/a	74 U	67 U	70 U	69 U	64 U	70 U	970 J
Benzo(b)fluoranthene	5,600	45 UJ	41 UJ	43 UJ	42 UJ	39 UJ	43 UJ	1100 J
Benzo(k)fluoranthene	56,000	90 U	82 UJ	85 UJ	85 UJ	78 UJ	86 U	430 J
Benzo(a)pyrene	1,000	66 U	60 U	62 U	62 U	57 U	63 U	860 J
Indeno(1,2,3-cd)pyrene	5,600	52 UJ	47 UJ	49 UJ	49 UJ	45 UJ	50 UJ	320 J
Benzo(g,h,i)perylene	500,000	68 UJ	62 UJ	64 UJ	64 UJ	59 UJ	65 UJ	300 J
Total Confident Conc. SVOC		0	0	0	0	0	0	13754
Total TICs		2170	4300	3400	2420	2700	2850	5306

Sample ID		GP-8(10-12)	DUP-1	GP-9(10-12)	GP-10(10-12)	GP-11(4-6)	GP-12(4-8)	EQUIPBLANK-1	GP-13(10-12)	GP-14(12-14)	GP-15(8-10)
Lab Sample Number		X2594-05	X2594-06	X2594-07	X2594-08	X2594-11	X2594-12	X2594-09	X2621-01	X2621-02	X2621-03
Sampling Date		04/27/06	04/27/06	04/27/06	04/27/06	04/28/06	04/28/06	04/28/06	05/02/06	05/02/06	05/02/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	10.0	1.0	1.0	1.0	1.0	1.0
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg
COMPOUND	Part 375 SCG (ug/Kg)										
Acenaphthylene	500,000	62 U	64 U	60 U	65 U	620 U	66 U	2.7 U	70 U	66 U	64 U
Acenaphthene	500,000	68 U	71 U	66 U	71 U	1100 J	72 U	2.8 U	77 U	72 U	70 U
Dibenzofuran	n/a	63 U	66 U	61 U	66 U	740 J	67 U	2.7 U	71 U	67 U	65 U
Fluorene	500,000	65 U	67 U	62 U	68 U	950 J	69 U	2.9 U	73 U	69 U	67 U
Phenanthrene	500,000	61 U	63 U	59 U	64 U	10000	65 U	3.0 U	69 U	65 U	63 U
Anthracene	500,000	58 U	60 U	56 U	60 U	1900 J	61 U	2.9 U	65 U	61 U	60 U
Carbazole	n/a	58 U	61 U	56 U	61 U	880 J	62 U	2.7 U	66 U	62 U	60 U
Fluoranthene	500,000	57 U	59 U	55 U	60 U	9700	61 U	2.5 U	64 U	61 U	59 U
Pyrene	500,000	68 U	70 U	65 U	71 U	9700	72 U	3.0 U	76 U	72 U	70 U
Benzo(a)anthracene	5,600	54 U	55 U	52 U	56 U	3300	57 U	2.3 U	61 U	57 U	55 U
Chrysene	n/a	69 U	71 U	66 U	72 U	9800 J	73 U	3.5 U	78 U	73 U	71 U
Benzo(b)fluoranthene	5,600	42 U	44 U	41 U	44 U	3800 J	45 UJ	1.6 UJ	48 U	57 J	44 U
Benzo(k)fluoranthene	56,000	84 U	87 U	81 U	88 U	1300 J	90 U	3.9 U	95 U	90 U	87 U
Benzo(a)pyrene	1,000	61 U	63 U	59 U	64 U	2400 J	65 U	2.4 U	69 U	65 U	63 U
Indeno(1,2,3-cd)pyrene	5,600	49 U	50 U	47 U	51 U	480 U	52 UJ	1.7 U	55 U	52 U	50 U
Benzo(g,h,i)perylene	500,000	63 U	66 U	61 U	66 U	630 UJ	67 UJ	2.3 U	71 U	67 U	65 U
Total Confident Conc. SVOC		0	0	0	0	49370	0	0	0	57	0
Total TICs		4340	3420	4280	3400	11360	2670	256	3810	2990	3550

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
ug/Kg - Micrograms per kilogram

TABLE 8
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
SUBSURFACE SOIL ANALYTICAL RESULTS - TAL METALS
(DETECTED METALS ONLY)

Sample ID		GP-1(6-8)	GP-2(6-8)	GP-3(6-8)	GP-4(4-6)	GP-5(10-12)	GP-6(10-12)	GP-7(4-8)
Lab Sample Number		X2527-01	X2527-02	X2527-03	X2527-04	X2527-05	X2594-01	X2594-02
Sampling Date		04/25/06	04/25/06	04/25/06	04/25/06	04/25/06	04/27/06	04/27/06
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND	Part 375 SCG (mg/Kg)							
Aluminum	n/a	4180	4040	9660	4180	3770	4620	8490 J
Antimony	n/a	21.9	5.1 J	11.6	0.38 U	0.52 U	0.391 U	1.550 U
Arsenic	16	3.7 U	0.44 U	4.1 U	0.46 U	2.3	1.520	2.790
Barium	400	11.8 J	12.9 J	184	9.6 J	14.1 J	16.1 J	54.6 J
Beryllium	590	0.36 J	0.20 J	0.90	0.14 J	0.21 U	0.200 J	0.388 J
Cadmium	9.3	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.039 U	0.166 J
Calcium	n/a	1500	1120	1900	786	935	1360	4070
Chromium	1900	12.2	6.8	16.0	4.3	5.8	10.8	10.9
Cobalt	n/a	6.5	3.3 J	6.2	1.6 J	3.2 J	4.200 J	5.900 J
Copper	270	9.3	4.8	20.9	3.8	6.0	7.800	23.1 J
Iron	n/a	5240	7510	15600	4800	6490	14900	14100
Lead	1000	4.3	3.4	11.1	3.3	3.4	4.820	228
Magnesium	n/a	1390	1100	2540	962	1180	1470	2770
Manganese	10000	39.5	49.3	79.2	43.3	68.1	88.8	193
Mercury	2.8	0.007 U	0.007 U	0.027	0.011 J	0.006 U	0.008 J	0.136 J
Nickel	310	6.8	4.9	12.8	4.9	5.1	9.040	13.4 J
Potassium	n/a	628	493 J	673	413 J	550	489 J	812
Selenium	1500	0.75 J	0.39 U	0.39 U	0.40 U	0.37 U	0.407 U	0.418 U
Sodium	n/a	916 J	350 J	808 J	408 J	122 J	227 U	269 U
Thallium	n/a	1.1 J	2.0	1.6	1.1 J	0.57 U	0.629 U	0.647 U
Vanadium	n/a	13.5	14.2	36.6	6.4	13.7	31.4	19.8
Zinc	10000	20.5	19.2	46.9	31.9	18.5	29.5	201

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
SCG - Standards, Criteria & Guidance levels (Reference: 6NYCRR Part 375 Restricted Use (Commercial) Soil Cleanup Objectives)
n/a - Not Applicable (no established Eastern USA Background)
mg/Kg - Milligrams per kilogram (or parts per million)

TABLE 9
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		CTM-13	CTM-14	CTM-15	CTM-16	CTM-17	CTM-18	GW-EQUIP.BLANK
Lab Sample Number		X3247-05	X3247-07	X3247-06	X3164-02	X3164-01	X3164-05	X3247-01
Sampling Date		06/12/06	06/12/06	06/12/06	06/07/06	06/07/06	06/07/06	06/12/06
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	SCG (ug/L)							
Acetone	50	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	25 J
Methylene Chloride	5	0.43 UJ	0.43 UJ	0.43 UJ	0.43 UJ	0.43 U	0.43 U	3.6 J
cis-1,2-Dichloroethene	5	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Chloroform	7	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methylcyclohexane	n/a	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 U
Bromodichloromethane	50	0.33 U	0.33 U	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 UJ
Dibromochloromethane	50	0.26 U	0.26 U	0.26 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U
Tetrachloroethene	5	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 U
Total Confident Conc. VOC		0	0	0	0	0	0	28.6
Total TICs		0	0	0	0	0	0	0

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
SCG - Standards, Criteria & Guidance level (Reference: NYSDEC *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, June 1998)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
ug/L - Micrograms per Liter

TABLE 10
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

Sample ID		CTM-1	CTM-2	CTM-3	CTM-4	CTM-5	CTM-6	CTM-7	CTM-9	GW-DUP	CTM-10	CTM-11	CTM-12
Lab Sample Number		X3205-01	X3205-02	X3205-03	X3205-04	X3205-05	X3235-01	X3235-02	X3235-05	X3235-08	X3235-06	X3247-03	X3247-04
Sampling Date		06/08/06	06/08/06	06/08/06	06/08/06	06/08/06	06/09/06	06/09/06	06/09/06	06/09/06	06/09/06	06/12/06	06/12/06
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	SCG (ug/L)												
bis(2-Ethylhexyl)phthalate	5	1.9 U	1.9 U	2.1 J	1.9 J	1.7 U	1.6 U	1.6 U	1.9 U	1.9 U	1.9 U	1.6 U	1.9 U
Total Confident Conc. SVOC		0	0	2.1	1.9	0	0	0	0	0	0	0	0
Total TICs		67.6	26.3	49.5	38	25	73.2	29.5	41.9	68.7	70.8	45.8	44.2

Sample ID		CTM-13	CTM-14	CTM-15	CTM-16	CTM-17	CTM-18	GW-EQUIP.BLANK
Lab Sample Number		X3247-05	X3247-07	X3247-06	X3164-02	X3164-01	X3164-05	X3247-01
Sampling Date		06/12/06	06/12/06	06/12/06	06/07/06	06/07/06	06/07/06	06/12/06
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	SCG (ug/L)							
bis(2-Ethylhexyl)phthalate	5	1.9 U	1.8 U	1.9 U	1.6 U	1.6 U	1.6 U	1.6 U
Total Confident Conc. SVOC		0	0	0	0	0	0	0
Total TICs		44.4	64.7	46.9	32	21	25	26.5

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
SCG - Standards, Criteria & Guidance level (Reference: NYSDEC *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, June 1998)
Values in **bold** print denote exceedence of SCG.
ug/L - Micrograms per Liter

TABLE 11
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - TAL METALS
(DETECTED METALS ONLY)

Sample ID		CTM-1	CTM-2	CTM-3	CTM-4	CTM-5	CTM-6	CTM-7	CTM-9	GW-DUP	CTM-10	CTM-11
Lab Sample Number		X3205-01	X3205-02	X3205-03	X3205-04	X3205-05	X3235-01	X3235-02	X3235-05	X3235-08	X3235-06	X3247-03
Sampling Date		06/08/06	06/08/06	06/08/06	06/08/06	06/08/06	06/09/06	06/09/06	06/09/06	06/09/06	06/09/06	06/12/06
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	SCG (ug/L)											
Aluminum	100	**672**	**500**	**3200**	**279**	70.9 J	70.5 J	15.9 U	**884 J**	**3090 J**	**665**	30.4 U
Antimony	3	3.170 U	3.170 U	3.170 U	3.170 U	**5.130** J	8.670 U	3.170 U	3.170 U	19.5 U	14.2 U	3.170 U
Arsenic	25	3.320 U	3.320 U	3.320 U	3.320 U	3.320 U	13.6 U	3.320 U	3.320 U	3.320 U	3.320 U	4.700 J
Barium	1,000	106 J	134 J	77.2 J	**1130**	68.9 J	118 J	33.4 U	159 J	189 J	47.8 U	57.0 J
Beryllium	3	0.090 U	0.090 U	0.090 J	0.090 U	0.090 U	0.300 U	0.090 U	0.430 U	0.540 U	0.300 U	0.090 U
Calcium	n/a	136000	174000	162000	420000	238000	143000	56700	169000	200000	170000	111000 J
Chromium	50	1.230 J	2.790 J	5.830 J	2.600 J	2.380 J	1.490 U	0.343 U	5.010 U	7.360 U	3.130 U	0.810 U
Cobalt	5	0.370 U	0.370 U	0.410 J	0.370 U	0.370 U	3.170 U	0.370 U	3.680 U	6.150 U	2.400 U	0.460 J
Copper	200	11.5 J	8.880 J	11.6 J	7.980 J	3.640 U	3.640 U	3.640 U	8.120 J	11.0 J	4.590 J	3.640 U
Iron	300	**3040**	**597**	**4580**	**423**	108	**3370**	27.0 U	**787 J**	**4320** J	**1070**	**7720**
Lead	25	2.180 U	2.180 U	11.2	2.180 U	2.180 U	2.180 U	2.180 U	2.180 U	2.180 U	2.180 U	2.180 U
Magnesium	35,000	19200	20100	26500	**58900**	**37300**	21900	9040	34800	**42300**	31700	18000 J
Manganese	300	**1660**	12.7 J	220	31.0	67.8	**8460**	7.400 U	**1200 J**	**1490 J**	117	**1220**
Mercury	0.7	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.06 U
Nickel	100	1.560 U	1.560 U	5.180 J	1.560 U	1.560 U	1.560 U	1.560 U	4.620 U	9.110 U	2.960 U	1.560 U
Potassium	n/a	12200 J	33700 J	27200 J	39600 J	21400 J	12200	2140 U	14800 J	18700 J	15600	11700 J
Selenium	10	3.040 U	3.040 U	3.040 U	3.040 U	6.190 J	3.040 U	3.040 U	3.040 U	3.040 U	6.740 J	3.600 J
Sodium	20,000	**557000**	**830000**	**1170000**	**4300000**	**1120000**	**679000**	**44400 J**	**757000**	**923000**	**378000**	**116000**
Thallium	0.5	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U	**7.780 J**	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U
Vanadium	14	0.701 U	0.701 U	5.010 J	0.701 U	0.701 U	4.880 U	0.701 U	9.600 U	18.5 U	5.590 U	1.950 U
Zinc	2,000	32.5	13.8 J	41.8	32.1	17.1 J	18.0 J	28.6	24.1 J	43.7 J	21.7	25.1 U

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
SCG - Standards, Criteria & Guidance level (Reference: NYSDEC *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, June 1998)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
ug/L - Micrograms per Liter

TABLE 11
CLINTON SOUTH PARKING LOT / 314 CLINTON STREET
SCHENECTADY, NEW YORK

REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - TAL METALS
(DETECTED METALS ONLY)

Sample ID		CTM-12	CTM-13	CTM-14	CTM-15	CTM-16	CTM-17	CTM-18	GW-EQUIP.BLANK
Lab Sample Number		X3247-04	X3247-05	X3247-07	X3247-06	X3164-02	X3164-01	X3164-05	X3247-01
Sampling Date		06/12/06	06/12/06	06/12/06	06/12/06	06/07/06	06/07/06	06/07/06	06/12/06
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	SCG (ug/L)								
Aluminum	100	434	432	32800	383	1040	9090	1160	36.6 J
Antimony	3	3.170 U	3.170 U	3.170 U	3.170 U	3.170 U	3.170 U	3.170 U	3.170 U
Arsenic	25	3.320 U	5.060 J	32.8	3.320 U	3.320 U	3.320 U	3.320 U	3.320 U
Barium	1,000	74.3 J	430	476	539	26.3 J	120 J	67.3 J	0.723 U
Beryllium	3	0.090 U	0.090 U	1.760 J	0.090 U	0.090 U	0.400 J	0.090 U	0.090 U
Calcium	n/a	135000	273000	379000	328000	16600	95900	55900	54.8 J
Chromium	50	1.120 U	0.560 U	66.7	1.690 U	73.7	93.4	23.9	0.500 J
Cobalt	5	0.370 U	0.370 U	31.8 J	4.700 J	0.370 U	7.540 J	0.370 U	0.370 U
Copper	200	4.590 J	3.830 J	97.5	3.640 U	10.7 J	39.5	9.920 J	3.640 U
Iron	300	1330	695	57300	521	1890	19000	2590	27.0 U
Lead	25	2.180 U	2.180 U	30.5	2.180 U	2.180 U	8.690	2.180 U	2.180 U
Magnesium	35,000	14900	30100	74700	25700	4420 J	20900	16300	46.5 J
Manganese	300	521	41.0	1680	37.3	144	810	208	0.106 U
Mercury	0.7	0.05 U	0.03 U	0.26	0.06 U	0.03 U	0.03U	0.03 U	0.05 J
Nickel	100	1.560 U	1.560 U	68.6	4.440 J	34.3 J	53.3	8.520 J	1.560 U
Potassium	n/a	12800	24100	61200	20900	2180 J	5420	6180	467 J
Selenium	10	3.040 U	3.860 J	6.740 J	3.040 U	3.040 U	3.040 U	3.040 U	3.040 U
Sodium	20,000	14700	979000	1320000	1510000	80300 J	94100	66800	2840 J
Thallium	0.5	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U
Vanadium	14	3.420 U	2.110 U	128	4.310 U	0.701 U	20.8 J	1.100 J	1.230 J
Zinc	2,000	29.6 U	26.4 U	271	24.5 U	22.4	81.9	22.1	20.1

Qualifiers and Notes
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
SCG - Standards, Criteria & Guidance level (Reference: NYSDEC *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, June 1998)
Values in **bold** print denote exceedence of SCG.
n/a - Not Applicable (no established standard)
ug/kg - Micrograms per kilogram

C.T. MALE ASSOCIATES, P.C.

GEOPROBE SUBSURFACE EXPLORATION LOG

BORING NO.: GP-1
ELEV.: DATUM:
START DATE: 4/25/06 FINISH DATE: 4/25/06
SHEET 1 OF 1

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM OBSERVER: N.Freeman

DEPTH (FT.)	SAMPLE INTERVAL	SAMPLE NO.	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
		1	3.8	4" ASPHALT 10" SUB-BASE (Crushed Gravel) Brown fine to medium SAND, Some Silt	Moist
4		2	3.4	Brown fine SAND, Some Silt, trace gravel	Wet @ approx. 7'
8		3	4.0	Gray SILT and fine SAND, trace organics	Wet
12		4	4.0	Gray fine SAND, Some Silt	Wet
16				Boring Terminated at 16'	
20					
24					
28					

DRILLING CONTRACTOR: SJB Services Inc. GEOPROBE TYPE: 5400 Truck-Mounted
METHOD OF SAMPLING: 2" by 4' Macrocore Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

GEOPROBE SUBSURFACE EXPLORATION LOG

BORING NO.: GP2
ELEV.: DATUM:
START DATE: 4/25/06 FINISH DATE: 4/25/06
SHEET 1 OF 1

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM OBSERVER: N. Freeman

DEPTH (FT.)	SAMPLE INTERVAL	SAMPLE NO.	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
		1	3.3	10" ASPHALT and SUB-BASE	
				Light Brown fine SAND and SILT	Moist
4					
		2	3.7		
				7' becomes Brown fine to coarse SAND, trace silt	Wet @ 7'
8					
		3	3.5	Gray fine SAND, Some Silt	Wet
12					
		4	3.8	Brown fine to coarse SAND, trace silt	
				14' to 14.5' , Course SAND seam	Wet
16				becomes Gray fine SAND, Some Silt	
				Boring Terminated at 16'	
20					
24					
28					

DRILLING CONTRACTOR: SJB Services Inc. GEOPROBE TYPE: 5400 Truck-Mounted
METHOD OF SAMPLING: 2" by 4" Macrocore Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY:
N. Freeman

C.T. MALE ASSOCIATES, P.C.

GEOPROBE SUBSURFACE EXPLORATION LOG

BORING NO.: GP3
ELEV.: DATUM:
START DATE: 4/25/06 FINISH DATE: 4/25/06
SHEET 1 OF 1

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM OBSERVER: N. Freeman

DEPTH (FT.)	SAMPLE INTERVAL	SAMPLE NO.	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
		1	3.2	10" ASPHALT and SUB-BASE (Coarse gravel and sand)	
				Brown fine to coarse SAND, trace silt	moist
4					
		2	4.0	Brown SILT and fine SAND	
8					Wet at 8'
		3	3.8	Gray fine to coarse SAND, trace silt	Wet
				becomes Brown fine to coarse SAND, trace silt	Moist
12					
		4	4.0		
					Wet
16					
				Boring Terminated at 16'	
20					
24					
28					

DRILLING CONTRACTOR: SJB Services Inc GEOPROBE TYPE: 5400 Truck-Mounted
METHOD OF SAMPLING: 2" by 4' Macrocore Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

GEOPROBE SUBSURFACE EXPLORATION LOG

BORING NO.: GP4
ELEV.: DATUM:
START DATE: 4/25/06 FINISH DATE: 4/25/06
SHEET 1 OF 1

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM OBSERVER: N. Freeman

DEPTH (FT.)	SAMPLE INTERVAL	SAMPLE NO.	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
		1	2.8	3" ASPHALT, 4"Sub-BASE (crushed gravel)	
				Brown fine to medium SAND, Some Silt	
4					
		2	3.5	Gray fine to coarse SAND, trace silt	Wet
				7' to 7.5' Gray SILT	
8				becomes Gray fine SAND, Some Silt	Moist
		3	4.0	Gray fine to coarse SAND, trace silt, little fine gravel	Wet
				becomes Brown fine SAND, Some Silt	
12					
		4	4.0	Gray fine to coarse SAND, trace silt	Wet
16					
				Boring Terminated at 16'	
20					
24					
28					

DRILLING CONTRACTOR: SJB Services Inc GEOPROBE TYPE: 5400 Truck-Mounted
METHOD OF SAMPLING: 2" by 4' Macrocore Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY:
N. Freeman

C.T. MALE ASSOCIATES, P.C.

GEOPROBE SUBSURFACE EXPLORATION LOG

BORING NO.: GP-13
ELEV.: **DATUM:**
START DATE: 5/2/06 **FINISH DATE: 5/2/06**
SHEET 1 OF 1

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM OBSERVER: N.Freeman

DEPTH (FT.)	SAMPLE INTERVAL	SAMPLE NO.	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
		1	3.0	7" ASPHALT, trace red brick	
				Brown fine to coarse SAND, Some Silt	Moist
4					
		2	3.8	Brown SILT and fine SAND	Moist
8					
		3	3.6	Brown fine to coarse SAND, Some Silt	Moist
12					
		4	4.0		Wet
16					
		5	4.0		
				becomes Gray SILT and fine SAND	Wet
20					
24					
28					

DRILLING CONTRACTOR: SJB Services Inc GEOPROBE TYPE: 5400 Truck-Mounted
METHOD OF SAMPLING: 2" by 4' Macrocore Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

GEOPROBE SUBSURFACE EXPLORATION LOG

BORING NO.: GP-14
ELEV.: DATUM:
START DATE: 5/2/06 FINISH DATE:5/2/06
SHEET 1 OF 1

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM OBSERVER: N.Freeman

DEPTH (FT.)	SAMPLE INTERVAL	SAMPLE NO.	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
		1	3.0	6" CONCRETE (sidwalk)	
				Brown fine SAND, Some Silt	Moist
4					
		2	4.0		Moist
8					
		3	4.0		
				Grades Brown fine to coarse SAND, trace silt	Moist
12					
		4	3.0	Brown fine SAND and SILT	Wet
16					
		5	4.0		
				becomes Gray SILTY CLAY	Wet
20					
				Boring Terminated at 20'	
24					
28					

DRILLING CONTRACTOR: SJB Services Inc GEOPROBE TYPE: 5400 Truck-Mounted
METHOD OF SAMPLING: 2" by 4' Macrocore Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY:
N. Freeman

C.T. MALE ASSOCIATES, P.C.

GEOPROBE SUBSURFACE EXPLORATION LOG

BORING NO.: GP-15
ELEV.: DATUM:
START DATE: 5/2/06 FINISH DATE: 5/2/06
SHEET 1 OF 1

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM OBSERVER: N.Freeman

DEPTH (FT.)	SAMPLE INTERVAL	SAMPLE NO.	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
		1	2.0	8" ASPHALT and CONCRETE	
				Brown fine to coarse SAND, Some Silt	Moist
4					
		2	3.4		Moist
8					
		3	3.6	Brown fine to medium SAND, Some Silt, trace gravel	Wet
12					
		4	4.0	Brown fine to coarse SAND, trace silt	
				Grades Brown fine SAND and SILT	Wet
16					
		5	4.0		
				Grades Gray SILT, Some fine Sand	Wet
20					
				Boring Terminated at 20'	
24					
28					

DRILLING CONTRACTOR: SJB Services Inc GEOPROBE TYPE: 5400 Truck-Mounted
METHOD OF SAMPLING: 2" by 4' Macrocore Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-16
ELEV.: **DATUM:**
START DATE: 5/16/06 **FINISH DATE: 5/19/06**
SHEET 1 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
0									Direct Auger to 20' bgs	
5										
10										
15										
20										
		1	2	1	1	1	2	1.7	Gray SILT, trace fine sand	Wet
		2	10	3	3	6	6	1.5	Gray fine SAND, Some Silt (Brown fine to coarse SAND at tip)	
25		3	11	2	2	1	4	1.4		
		4	6	1	2	4	3	1.0		
		5	7	2	1	2	3	1.0	Gray fine SAND, Some Silt, little coarse gravel	6" Collapse Sheen noted on sample water
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-16
ELEV.: DATUM:
START DATE: 5/16/06 FINISH DATE: 5/19/06
SHEET 2 OF 4

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		6	1	1	2	4	3	1.4	Brown fine to coarse SAND, trace silt	Wet Running Sand
		7	2	1	2	4	3	1.0		
35		8	WR	2	3	3	5	0.8		
		9	2	2	3	5	5	1.4		
		10	3	2	2	3	4	1.4	grading to brown fine to medium SAND, Some Silt	Wet
40		11	3	1	1	1	2	2.0	Brown fine SAND, Some Silt	Wet
		12	WR	2	3	3	5	1.8	Gray fine SAND, Some Silt	Wet
45		13	2	3	3	4	6	1.8	grading to Brown fine to medium SAND, trace silt	
		14	WR	1	2	4	3	2.0	Brown fine to coarse SAND, trace silt	Wet
		15	WR	1	3	4	4	1.6		Running Sand, drillers wash out boring
50		16	WR	WR	2	3		2.0		
		17	1	1	2	5	3	1.9		
55		18	1	1	2	5	3	2.0		
		19	WH	WH	1	4		1.8		
		20	2	2	6	17	8	2.0	grades to Brown fine SAND, Some Silt	Wet
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-16
ELEV.: DATUM:
START DATE: 5/16/06 FINISH DATE: 5/19/06
SHEET 3 OF 4

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		21	2	4	8	12	12	2.0	Brown fine to medium SAND, trace silt	Wet, running sand drillers wash out boring
		22	5	5	6	9	11	2.0	Gray fine SAND, Some Silt	Wet
65		23	6	8	7	13	15	2.0		Wash out boring
		24	4	5	9	17	14	2.0		
		25	7	8	9	9	17	2.0		
70		26	5	7	8	10	15	2.0		Wash out boring
		27	6	6	7	9	13	1.7		
75		28	2	2	3	7	5	2.0	Gray fine to coarse SAND, trace silt, little fine gravel	Wet
		29	5	9	16	21	25	1.5	Gray fine to coarse SAND, trace silt, little fine to coarse gravel	
80		30	1	3	6	17	9	1.0		Wash out boring
		31	6	13	25	18	38	2.0		
		32	2	4	6	17	10	2.0	Gray fine SAND and SILT	Wet
85		33	6	7	9	11	16	2.0		
		34	6	4	7	10	11	2.0	becomes Gray SILT, Some Clay at sample tip	
		35	7	9	13	15	22	2.0	Gray SILT, Some fine Sand	
90										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-16
ELEV.: **DATUM:**
START DATE: 5/16/06 **FINISH DATE: 5/19/06**
SHEET 4 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		36	9	9	12	16	21	2.0	Gray SILT, Some fine Sand	Wet
		37	9	12	13	16	25	2.0	Gray SILT and fine SAND	Wet
95		38	14	12	11	25	23	2.0		Wash out boring
		39	7	8	13	15	21	1.8		
		40	6	8	10	10	18	2.0		
100		41	5	7	8	16	15	2.0		
		42	5	5	8	10	13	2.0	Gray SILT, Some Clay, little fine sand	
105									Boring Terminated at 104'	
110										
115										
120										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-17
ELEV.: **DATUM:**
START DATE: 5/22/06 **FINISH DATE: 5/25/06**
SHEET 1 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
0									Direct Auger to 20' bgs	
20		1	3	1	1	2	2	1.4	Gray SILT, Some fine Sand, trace clay	Wet
25		2	8	4	1	2	5	1.6	Brown fine SAND and SILT	Wet
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T.MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-17
ELEV.: DATUM:
START DATE: 5/22/06 FINISH DATE: 5/25/06
SHEET 2 OF 4

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		3	WR	WR	WR	WR		0.4	Brown fine to coarse SAND, little silt	Wet
35		4	7	5	4	6	9	2.0	Brown fine to coarse SAND, little silt and fine to coarse gravel	
									grading Brown fine SAND, Some Silt	Wet
40		5	WR	2	3	4	5	2.0		
45		6	1	4	5	6	9	2.0		
50										Wash out boring
		7	3	3	5	6	8	2.0	Brown fine to coarse SAND, trace silt	Wet
55		8	5	5	6	12	11	2.0		
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-17
ELEV.: DATUM:
START DATE: 5/22/06 FINISH DATE: 5/25/06
SHEET 3 OF 4

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		9	5	9	10	16	19	1.8	Brown fine to medium SAND, Some Silt	Wet Driller flush out boring with NW Rods and roller bit
65										
		10	WR	3	7	10	9	2.0	Brown and Gray fine SAND, Some Silt	Wet
70										Driller flush out boring with NW Rods and roller bit
		11	7	15	23	31	38	2.0	Brown fine to medium SAND, trace silt (light to dark brown layering noticed)	Wet
75										
		12	WH	WH	2	3		0.9	Gray fine to medium SAND, trace silt becomes Gray fine to coarse SAND, trace fine to coarse gravel	Wet
80										
		13	7	10	30	52	40	2.0	Gray fine to coarse SAND, Some fine to medium Gravel	Wet
85										
		14	WH	10	30	40	40	2.0	Gray SILT, Some Clay becomes gray SILT and fine SAND	
90										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-17
ELEV.: **DATUM:**
START DATE: 5/22/06 **FINISH DATE: 5/25/06**
SHEET 4 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		15	4	2	10	15	12	1.8	Gray SILT and fine SAND	Driller flush out boring with NW Rods and roller bit
										Wet
95										
		16	8	17	19	23	36	1.8	Gray SILT, Some fine Sand	Wet
100										
		17	5	11	13	15	24	1.7		
		18	WR	4	6	2	10	1.5		
									becomes Gray SILT and CLAY	
105									Boring Terminated at 104'	
110										
115										
120										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-18
ELEV.: **DATUM:**
START DATE: 5/30/06 **FINISH DATE: 6/1/06**
SHEET 1 OF 4

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
5									Direct Auger to 20' bgs	
10										
15										
20										
		1	4	2	1	2	3	1.1	Gray SILT and fine SAND, trace clay	Wet
25										
		2	2	1	1	4	2	1.0		
									becomes Brown fine to coarse SAND, trace silt	Wet
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-18
ELEV.: **DATUM:**
START DATE: 5/30/06 **FINISH DATE: 6/1/06**
SHEET 2 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		3	1	3	4	3	7	1.5	Brown fine to coarse SAND, trace silt	Wet
35		4	1	1	1	1	2	1.6	little coarse gravel	
40		5	WR	WR	1	4		1.2	Brown fine to coarse SAND, trace silt	Wet
45		6	4	1	4	6	5	2.0		Wash out boring with garden hose
50		7	3	4	3	5	7	1.0		Wash out boring with garden hose
55		8	1	1	4	8	5	1.7	grades Brown fine SAND, Some Silt	Wash out boring with garden hose Wet
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-18
ELEV.: DATUM:
START DATE: 5/30/06 FINISH DATE: 6/1/06
SHEET 3 OF 4

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		9	2	4	5	11	9	1.8	Brown/Gray fine SAND, Some Silt	Wet
65		10	2	4	8	17	12	2.0		
70		11	2	2	6	13	8	2.0	Gray fine to coarse SAND, trace fine gravel	Wet
75		12	18	10	12	24	22	1.4	Gray fine to coarse SAND, little fine to coarse gravel	Wash out boring with garden hose
80		13	3	3	5	8	8	2.0	grading Gray fine SAND and SILT	Wet
85		14	3	4	13	17	17	2.0	Gray SILT, Some fine Sand	Wet
90										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-18
ELEV.: **DATUM:**
START DATE: 5/30/06 **FINISH DATE: 6/1/06**
SHEET 4 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		15	8	6	9	16	15	1.2	Gray SILT, Some fine Sand	Wet
95		16	WR	WH	3	7		1.8	becomes Gray SILT, little fine sand	
		17	DR	DR	DR	2		2.0	Gray SILT, trace clay and fine sand	
100									Boring Terminated at 99'	
105										
110										
115										
120										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	314 Clinton Street		**PROJECT #:**	05.5551	**PAGE 1 OF 2**
CLIENT:	Schenectady Metroplex Development				**DATE**
LOCATION:	Schenectady, NY				**COLLECTED: 5/2/06**
INSTRUMENT USED:	Photovac	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	5/2/2006	**BY:**			**ANALYZED: 5/2/06**
TEMPERATURE OF SOIL:	Ambient				**ANALYST: N. Freeman**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-13		0-2	Soil	0.8	0.3	No odors or Staining
GP-13		2-4	Soil	1.0	0.3	No odors or Staining
GP-13		4-6	Soil	1.5	0.4	No odors or Staining
GP-13		6-8	Soil	1.5	0.4	No odors or Staining
GP-13		8-10	Soil	1.3	0.4	No odors or Staining
GP-13		10-12	Soil	1.3	0.4	No odors or Staining
GP-13		12-14	Soil	1.4	0.3	No odors or Staining
GP-13		14-16	Soil	0.9	0.3	No odors or Staining
GP-13		16-18	Soil	1.0	0.3	No odors or Staining
GP-13		18-20	Soil	0.8	0.3	No odors or Staining
GP-14		0-2	Soil	1.3	0.5	No odors or Staining
GP-14		2-4	Soil	1.4	0.5	No odors or Staining
GP-14		4-6	Soil	1.8	0.5	No odors or Staining
GP-14		6-8	Soil	1.8	0.4	No odors or Staining
GP-14		8-10	Soil	1.7	0.5	No odors or Staining
GP-14		10-12	Soil	1.8	0.5	No odors or Staining
GP-14		12-14	Soil	1.7	0.5	No odors or Staining
GP-14		14-16	Soil	1.8	0.5	No odors or Staining
GP-14		16-18	Soil	1.8	0.5	No odors or Staining
GP-14		18-20	Soil	1.9	0.5	No odors or Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	314 Clinton Street		**PROJECT #:**	05.5551	**PAGE 1 OF 1**
CLIENT:	Schenectady Metroplex Development				**DATE**
LOCATION:	Schenectady, NY				**COLLECTED: 5/16/06**
INSTRUMENT USED:	Photovac	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	5/16/2006		**BY:** N. Freeman		**ANALYZED: 5/16/06**
TEMPERATURE OF SOIL:	Ambient				**ANALYST: N. Freeman**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
SB-16		20-22	Soil	1.8	0.7	No odor or Staining
SB-16		22-24	Soil	1.7	0.7	No odor or Staining
SB-16		24-26	Soil	3.0	0.7	No odor or Staining
SB-16		26-28	Soil	2.4	0.8	No odor or Staining
SB-16		28-30	Soil	3.3	0.7	Sheen on water in spoon
SB-16		30-32	Soil	3.1	0.8	No odor or Staining
SB-16		32-34	Soil	2.6	0.8	No odor or Staining
SB-16		34-36	Soil	3.8	0.9	No odor or Staining
SB-16		36-38	Soil	2.7	1.0	No odor or Staining
SB-16		38-40	Soil	3.2	1.0	No odor or Staining
SB-16		40-42	Soil	2.6	0.9	No odor or Staining
SB-16		42-44	Soil	3.4	1.0	No odor or Staining
SB-16		44-46	Soil	2.9	1.0	No odor or Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

APPENDIX B

ORGANIC VAPOR HEADSPACE ANALYSIS LOGS

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	314 Clinton Street		**PROJECT #:**	05.5551	**PAGE 1 OF 3**
CLIENT:	Schenectady Metroplex Development				**DATE**
LOCATION:	Schenectady, NY				**COLLECTED: 4/25/06**
INSTRUMENT USED:	Photovac	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	4/25/2006	**BY:**			**ANALYZED: 4/25/06**
TEMPERATURE OF SOIL:	Ambient				**ANALYST: N. Freeman**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-1		0-2	Soil	0.5	0.4	No odor or Staining
GP-1		2-4	Soil	0.5	0.4	No odor or Staining
GP-1		4-6	Soil	0.5	0.3	No odor or Staining
GP-1		6-8	Soil	0.8	0.4	No odor or Staining
GP-1		8-10	Soil	1.0	0.4	No odor or Staining
GP-1		10-12	Soil	0.6	0.4	No odor or Staining
GP-1		12-14	Soil	0.4	0.3	No odor or Staining
GP-1		14-16	Soil	0.5	0.4	No odor or Staining
GP-2		0-2	Soil	0.8	0.5	No odor or Staining
GP-2		2-4	Soil	0.9	0.6	No odor or Staining
GP-2		4-6	Soil	1.0	0.6	No odor or Staining
GP-2		6-8	Soil	0.9	0.5	No odor or Staining
GP-2		8-10	Soil	0.9	0.6	No odor or Staining
GP-2		10-12	Soil	0.8	0.5	No odor or Staining
GP-2		12-14	Soil	0.8	0.6	No odor or Staining
GP-2		14-16	Soil	0.7	0.6	No odor or Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	314 Clinton Street		**PROJECT #:**	05.5551	**PAGE 2 OF 3**
CLIENT:	Schenectady Metroplex Development				**DATE**
LOCATION:	Schenectady, NY				**COLLECTED: 4/25/06**
INSTRUMENT USED:	Photovac	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	4/25/2006	**BY:**			**ANALYZED: 4/25/06**
TEMPERATURE OF SOIL:	Ambient				**ANALYST: N. Freeman**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-3		0-2	Soil	1.1	0.7	No odor or Staining
GP-3		2-4	Soil	1.2	0.6	No odor or Staining
GP-3		4-6	Soil	1.0	0.6	No odor or Staining
GP-3		6-8	Soil	0.9	0.6	No odor or Staining
GP-3		8-10	Soil	0.8	0.7	No odor or Staining
GP-3		10-12	Soil	1.1	0.5	No odor or Staining
GP-3		12-14	Soil	0.8	0.6	No odor or Staining
GP-3		14-16	Soil	0.8	0.5	No odor or Staining
GP-4		0-2	Soil	7.2	0.7	Solvent Odor, No Staining
GP-4		2-4	Soil	1.0	0.7	No odor or Staining
GP-4		4-6	Soil	1.2	0.7	No odor or Staining
GP-4		6-8	Soil	1.0	0.7	No odor or Staining
GP-4		8-10	Soil	2.4	0.7	No odor or Staining
GP-4		10-12	Soil	1.6	0.7	No odor or Staining
GP-4		12-14	Soil	1.9	0.7	No odor or Staining
GP-4		14-16	Soil	1.8	0.7	No odor or Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	314 Clinton Street		**PROJECT #:**	05.5551	**PAGE 3 OF 3**
CLIENT:	Schenectady Metroplex Development				**DATE**
LOCATION:	Schenectady, NY				**COLLECTED: 4/25/06**
INSTRUMENT USED:	Photovac	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	4/25/2006	**BY:**			**ANALYZED: 4/25/06**
TEMPERATURE OF SOIL:	Ambient				**ANALYST: N. Freeman**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-5		0-2	Soil	1.4	0.6	No odor or Staining
GP-5		2-4	Soil	1.7	0.6	No odor or Staining
GP-5		4-6	Soil	1.8	0.6	No odor or Staining
GP-5		6-8	Soil	1.6	0.6	No odor or Staining
GP-5		8-10	Soil	1.7	0.6	No odor or Staining
GP-5		10-12	Soil	1.8	0.6	No odor or Staining
GP-5		12-14	Soil	1.6	0.7	No odor or Staining
GP-5		14-16	Soil	1.8	0.6	No odor or Staining
GP-5		16-18	Soil	1.8	0.6	No odor or Staining
GP-5		18-20	Soil	1.7	0.6	No odor or Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	314 Clinton Street		**PROJECT #:**	05.5551	**PAGE 1 OF 3**
CLIENT:	Schenectady Metroplex Development				**DATE**
LOCATION:	Schenectady, NY				**COLLECTED: 4/27/06**
INSTRUMENT USED:	Photovac	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	4/27/2006	**BY:**			**ANALYZED: 4/27/06**
TEMPERATURE OF SOIL:	Ambient				**ANALYST: N. Freeman**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-6		0-2	Soil	3.8	0.4	Asphalt odor, No Staining
GP-6		2-4	Soil	1.3	0.4	No odor or Staining
GP-6		4-6	Soil	1.6	0.4	No odor or Staining
GP-6		6-8	Soil	1.8	0.4	No odor or Staining
GP-6		8-10	Soil	2.0	0.4	No odor or Staining
GP-6		10-12	Soil	2.0	0.4	No odor or Staining
GP-6		12-14	Soil	1.4	0.4	No odor or Staining
GP-6		14-16	Soil	2.2	0.4	No odor or Staining
GP-6		16-18	Soil	1.4	0.4	No odor or Staining
GP-6		18-20	Soil	12.2	0.4	Slight Petro odor, No Staining
GP-7		0-4	Soil	1.6	0.5	No odor or Staining
GP-7		4-8	Soil	2.2	0.5	No odor or Staining
GP-7		8-12	Soil	3.2	0.5	No odor or Staining
GP-7		12-14	Soil	2.2	0.5	No odor or Staining
GP-7		14-16	Soil	2.0	0.6	No odor or Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	314 Clinton Street		**PROJECT #:**	05.5551	**PAGE 2 OF 3**
CLIENT:	Schenectady Metroplex Development				**DATE**
LOCATION:	Schenectady, NY				**COLLECTED: 4/27/06**
INSTRUMENT USED:	Photovac	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	4/27/2006	**BY:**			**ANALYZED: 4/27/06**
TEMPERATURE OF SOIL:	Ambient				**ANALYST: N. Freeman**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-8		0-2	Soil	5.2	0.5	No odor or Staining
GP-8		2-4	Soil	4.6	0.5	No odor or Staining
GP-8		4-6	Soil	3.2	0.8	No odor or Staining
GP-8		6-8	Soil	2.4	0.8	No odor or Staining
GP-8		8-10	Soil	3.1	0.8	No odor or Staining
GP-8		10-12	Soil	2.9	0.7	No odor or Staining
GP-8		12-14	Soil	2.3	0.8	No odor or Staining
GP-8		14-16	Soil	2.3	0.8	No odor or Staining
GP-8		16-18	Soil	2.4	0.7	No odor or Staining
GP-8		18-20	Soil	3.0	0.8	No odor or Staining
GP-9		0-2	Soil	1.8	0.6	No odor or Staining
GP-9		2-4	Soil	1.6	0.7	No odor or Staining
GP-9		4-6	Soil	1.5	0.6	No odor or Staining
GP-9		6-8	Soil	1.8	0.6	No odor or Staining
GP-9		8-10	Soil	2.2	0.5	No odor or Staining
GP-9		10-12	Soil	2.1	0.6	No odor or Staining
GP-9		12-14	Soil	2.0	0.5	No odor or Staining
GP-9		14-16	Soil	2.2	0.6	No odor or Staining
GP-9		16-18	Soil	1.9	0.6	No odor or Staining
GP-9		18-20	Soil	1.8	0.6	No odor or Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	314 Clinton Street		**PROJECT #:**	05.5551	**PAGE 3 OF 3**
CLIENT:	Schenectady Metroplex Development				**DATE**
LOCATION:	Schenectady, NY				**COLLECTED: 4/27/06**
INSTRUMENT USED:	Photovac	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	4/27/2006	**BY:**			**ANALYZED: 4/27/06**
TEMPERATURE OF SOIL:	Ambient				**ANALYST: N. Freeman**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-10		0-4	Soil	2.8	0.5	No odor or Staining
GP-10		4-6	Soil	2.6	0.5	No odor or Staining
GP-10		6-8	Soil	2.7	0.5	No odor or Staining
GP-10		8-10	Soil	3.5	0.6	No odor or Staining
GP-10		10-12	Soil	3.8	0.5	No odor or Staining
GP-10		12-14	Soil	2.5	0.5	No odor or Staining
GP-10		14-16	Soil	3.3	0.5	No odor or Staining
GP-10		16-18	Soil	2.4	0.5	No odor or Staining
GP-10		18-20	Soil	2.6	0.5	No odor or Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	314 Clinton Street		**PROJECT #:**	05.5551	**PAGE 1 OF 1**
CLIENT:	Schenectady Metroplex Development				**DATE**
LOCATION:	Schenectady, NY				**COLLECTED: 4/28/06**
INSTRUMENT USED:	Photovac	**LAMP**	10.6	**eV**	**DATE**
DATE INSTRUMENT CALIBRATED:	4/28/2006	**BY:**			**ANALYZED: 4/28/06**
TEMPERATURE OF SOIL:	Ambient				**ANALYST: N. Freeman**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-11		0-2	Soil	1.0	0.1	No odor or Staining
GP-11		2-4	Soil	1.2	0.1	No odor or Staining
GP-11		4-6	Soil	1.7	0.1	No odor or Staining
GP-11		6-8	Soil	0.8	0.1	No odor or Staining
GP-11		8-10	Soil	1.0	0.1	No odor or Staining
GP-11		10-12	Soil	1.2	0.1	No odor or Staining
GP-11		12-16	Soil	1.2	0.1	No odor or Staining
GP-12		0-2	Soil	1.4	0.4	No odor or Staining
GP-12		2-4	Soil	1.5	0.3	No odor or Staining
GP-12		4-8	Soil	1.8	0.3	No odor or Staining
GP-12		8-10	Soil	1.6	0.3	No odor or Staining
GP-12		10-12	Soil	1.8	0.4	No odor or Staining
GP-12		12-14	Soil	1.7	0.3	No odor or Staining
GP-12		14-16	Soil	1.5	0.4	No odor or Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-17
ELEV.: **DATUM:**
START DATE: 5/22/06 **FINISH DATE: 5/25/06**
SHEET 1 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
0									Direct Auger to 20' bgs	
20		1	3	1	1	2	2	1.4	Gray SILT, Some fine Sand, trace clay	Wet
25		2	8	4	1	2	5	1.6	Brown fine SAND and SILT	Wet
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-17
ELEV.: **DATUM:**
START DATE: 5/22/06 **FINISH DATE: 5/25/06**
SHEET 2 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		3	WR	WR	WR	WR		0.4	Brown fine to coarse SAND, little silt	Wet
35		4	7	5	4	6	9	2.0	Brown fine to coarse SAND, little silt and fine to coarse gravel	
									grading Brown fine SAND, Some Silt	Wet
40		5	WR	2	3	4	5	2.0		
45		6	1	4	5	6	9	2.0		
50										Wash out boring
		7	3	3	5	6	8	2.0	Brown fine to coarse SAND, trace silt	Wet
55		8	5	5	6	12	11	2.0		
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-17
ELEV.: DATUM:
START DATE: 5/22/06 FINISH DATE: 5/25/06
SHEET 3 OF 4

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		9	5	9	10	16	19	1.8	Brown fine to medium SAND, Some Silt	Wet Driller flush out boring with NW Rods and roller bit
65										
		10	WR	3	7	10	9	2.0	Brown and Gray fine SAND, Some Silt	Wet
70										Driller flush out boring with NW Rods and roller bit
		11	7	15	23	31	38	2.0	Brown fine to medium SAND, trace silt (light to dark brown layering noticed)	Wet
75										
		12	WH	WH	2	3		0.9	Gray fine to medium SAND, trace silt becomes Gray fine to coarse SAND, trace fine to coarse gravel	Wet
80										
		13	7	10	30	52	40	2.0	Gray fine to coarse SAND, Some fine to medium Gravel	Wet
85										
		14	WH	10	30	40	40	2.0	Gray SILT, Some Clay becomes gray SILT and fine SAND	
90										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-17
ELEV.: **DATUM:**
START DATE: 5/22/06 **FINISH DATE: 5/25/06**
SHEET 4 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		15	4	2	10	15	12	1.8	Gray SILT and fine SAND	Driller flush out boring with NW Rods and roller bit Wet
95										
		16	8	17	19	23	36	1.8	Gray SILT, Some fine Sand	Wet
100										
		17	5	11	13	15	24	1.7		
		18	WR	4	6	2	10	1.5	becomes Gray SILT and CLAY	
105									Boring Terminated at 104'	
110										
115										
120										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-18
ELEV.: **DATUM:**
START DATE: 5/30/06 **FINISH DATE: 6/1/06**
SHEET 1 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
0									Direct Auger to 20' bgs	
20		1	4	2	1	2	3	1.1	Gray SILT and fine SAND, trace clay	Wet
25		2	2	1	1	4	2	1.0	becomes Brown fine to coarse SAND, trace silt	Wet
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-18
ELEV.: **DATUM:**
START DATE: 5/30/06 **FINISH DATE: 6/1/06**
SHEET 2 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		3	1	3	4	3	7	1.5	Brown fine to coarse SAND, trace silt	Wet
35		4	1	1	1	1	2	1.6	little coarse gravel	
40		5	WR	WR	1	4		1.2	Brown fine to coarse SAND, trace silt	Wet
45		6	4	1	4	6	5	2.0		Wash out boring with garden hose
50		7	3	4	3	5	7	1.0		Wash out boring with garden hose
55		8	1	1	4	8	5	1.7	grades Brown fine SAND, Some Silt	Wash out boring with garden hose Wet
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-18
ELEV.: DATUM:
START DATE: 5/30/06 FINISH DATE: 6/1/06
SHEET 3 OF 4

PROJECT: 314 Clinton Street CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		9	2	4	5	11	9	1.8	Brown/Gray fine SAND, Some Silt	Wet
65		10	2	4	8	17	12	2.0		
70		11	2	2	6	13	8	2.0	Gray fine to coarse SAND, trace fine gravel	Wet
75		12	18	10	12	24	22	1.4	Gray fine to coarse SAND, little fine to coarse gravel	Wash out boring with garden hose Wet
80		13	3	3	5	8	8	2.0	grading Gray fine SAND and SILT	
85		14	3	4	13	17	17	2.0	Gray SILT, Some fine Sand	Wet
90										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

C.T. MALE ASSOCIATES, P.C.

SUBSURFACE EXPLORATION LOG

BORING NO.: SB-18
ELEV.: **DATUM:**
START DATE: 5/30/06 **FINISH DATE: 6/1/06**
SHEET 4 OF 4

PROJECT: 314 Clinton Street — CTM PROJECT NO.: 05.5551

LOCATION: Schenectady, NY — CTM INSPECTOR: N. Freeman

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
95		15	8	6	9	16	15	1.2	Gray SILT, Some fine Sand	Wet
		16	WR	WH	3	7		1.8	becomes Gray SILT, little fine sand	
		17	DR	DR	DR	2		2.0	Gray SILT, trace clay and fine sand	
100									Boring Terminated at 99'	
105										
110										
115										
120										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services Inc. DRILL RIG TYPE: CME 75

METHOD OF INVESTIGATION: 4.25-Inch Hollow Stem Augers with 2"x2' Split Spoon Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	CASING	STABILIZATION TIME

SAMPLE CLASSIFICATION BY: N. Freeman

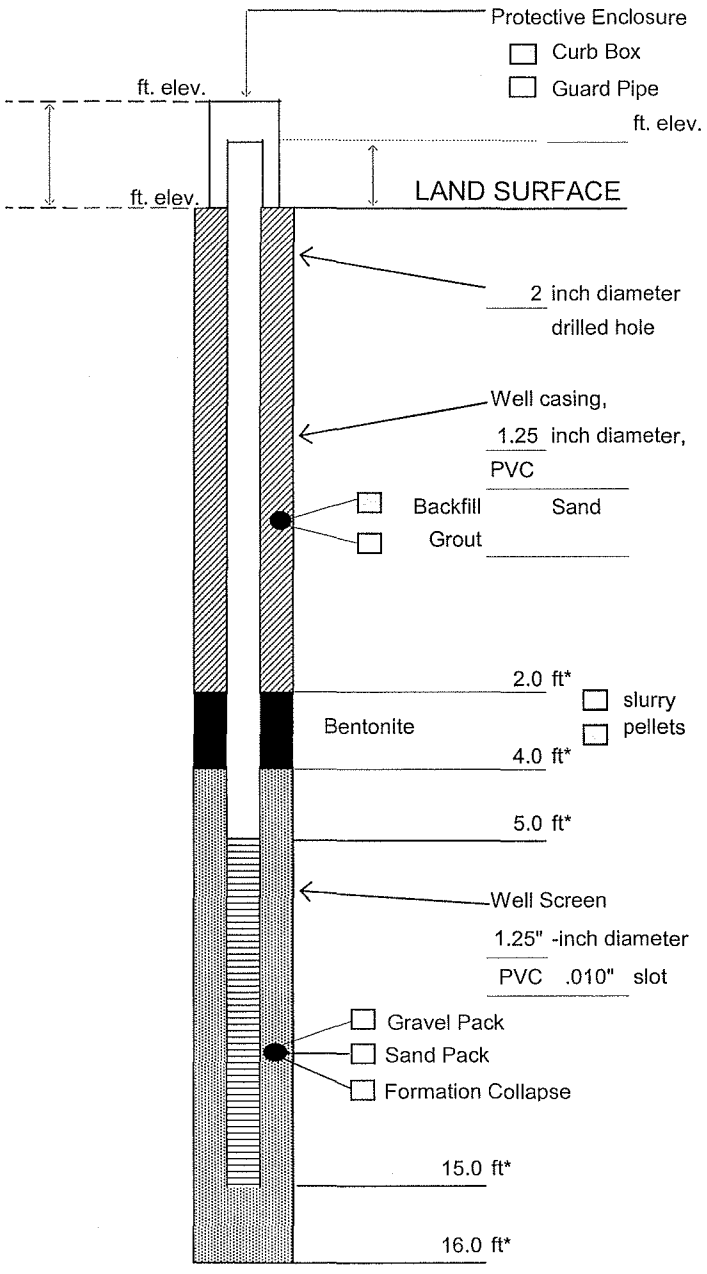
APPENDIX C

MONITORING WELL CONSTRUCTION LOGS

Well No. CTM-1

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-1 Boring No. GP-1

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.25.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser ____ ft ____
Date

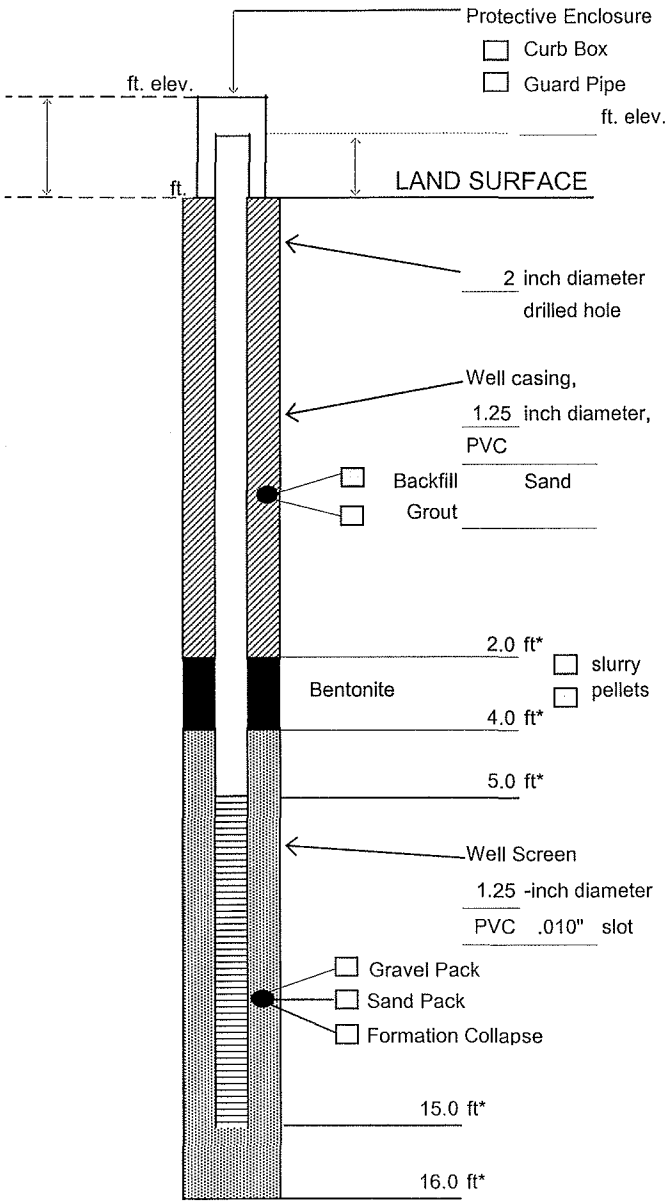
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-2

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-2 Boring No. GP-2

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.25.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser _____ ft _____ Date

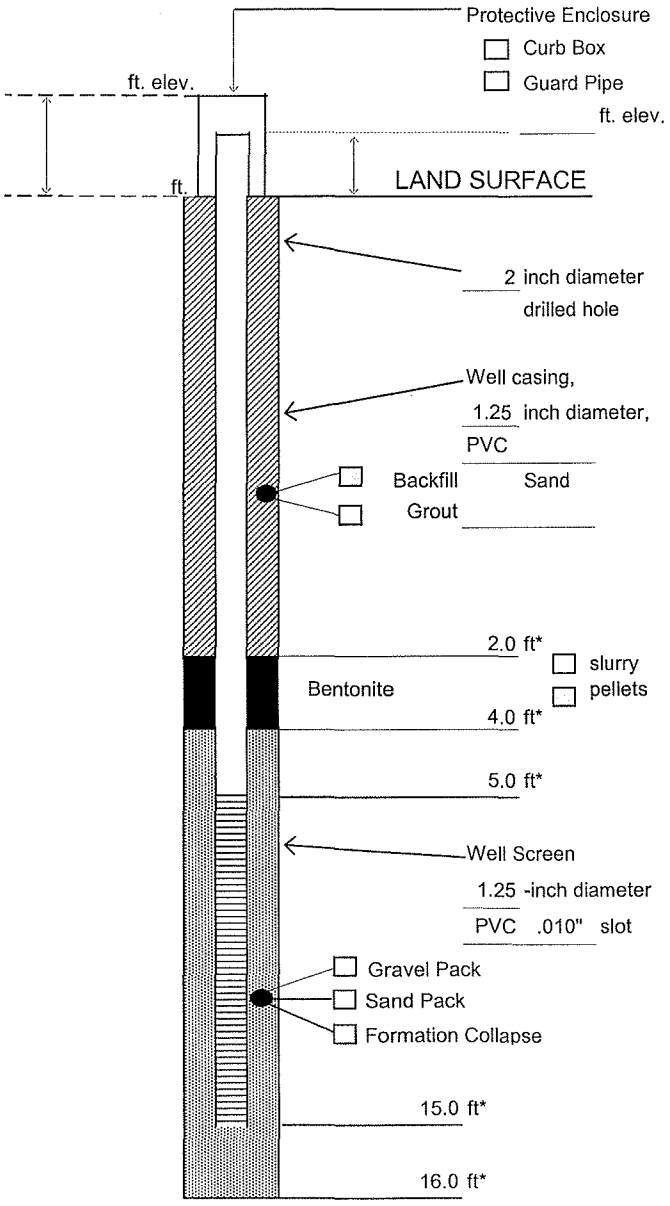
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-3

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-3 Boring No. GP-3

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.25.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser _____ ft _____ Date

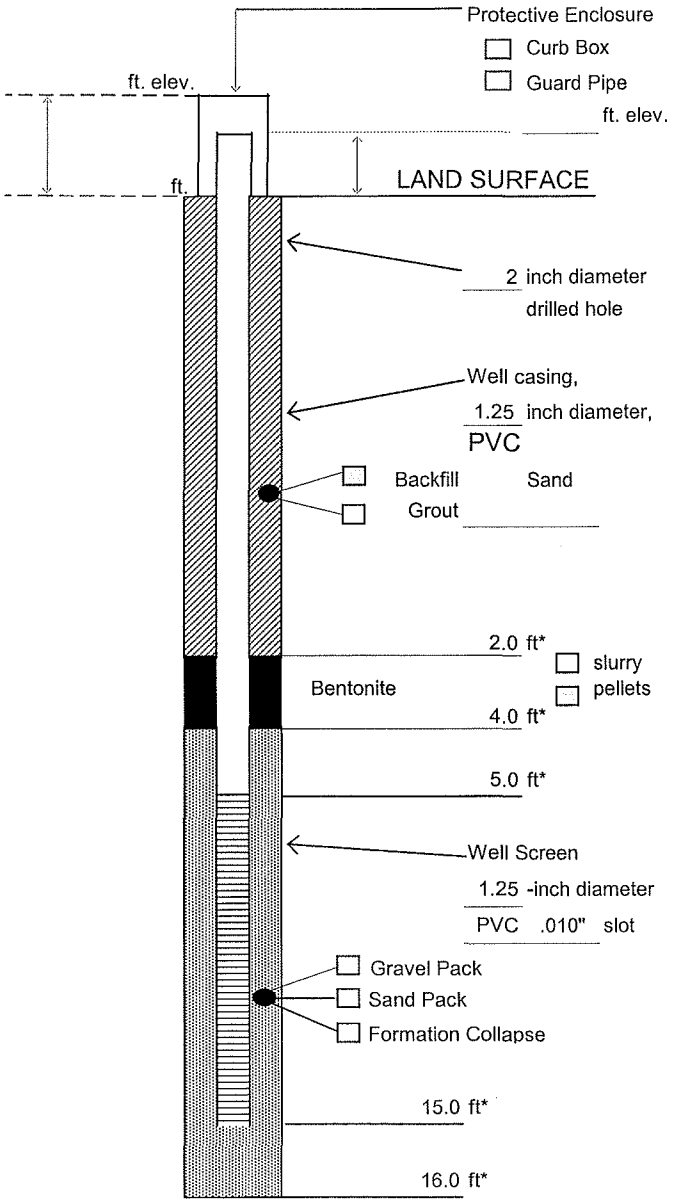
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-4

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-4 Boring No. GP-4

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.25.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser ____ ft ____ Date

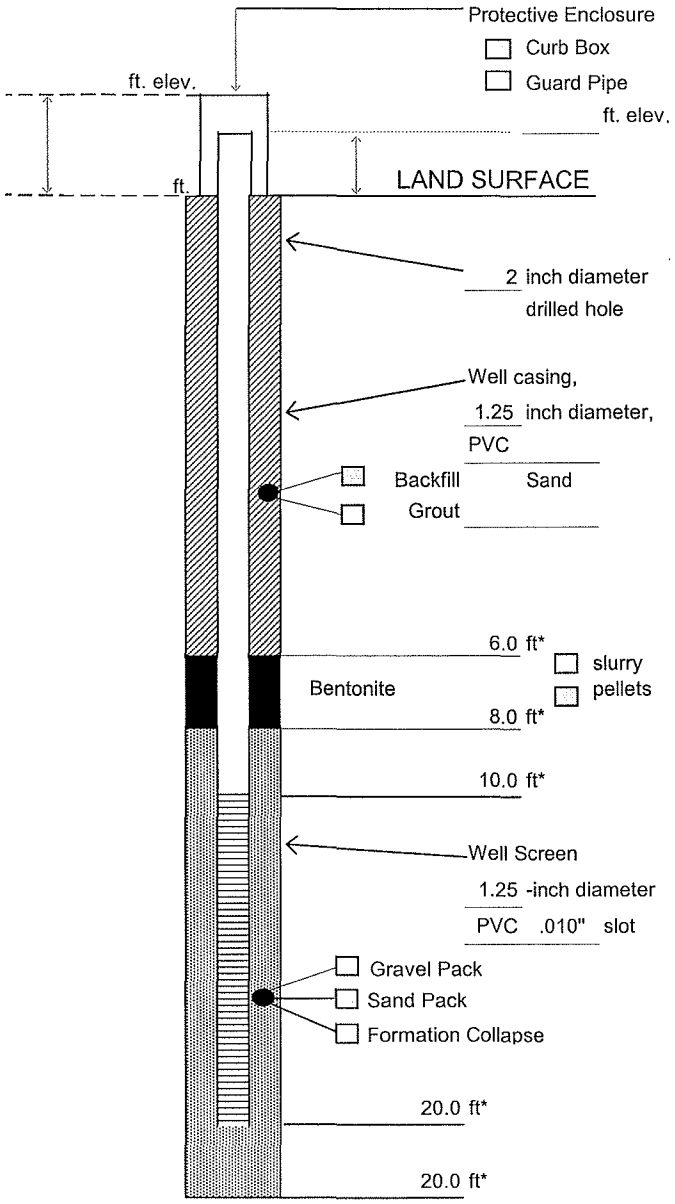
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-5

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-5 Boring No. GP-5

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.25.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser ____ ft ____ Date

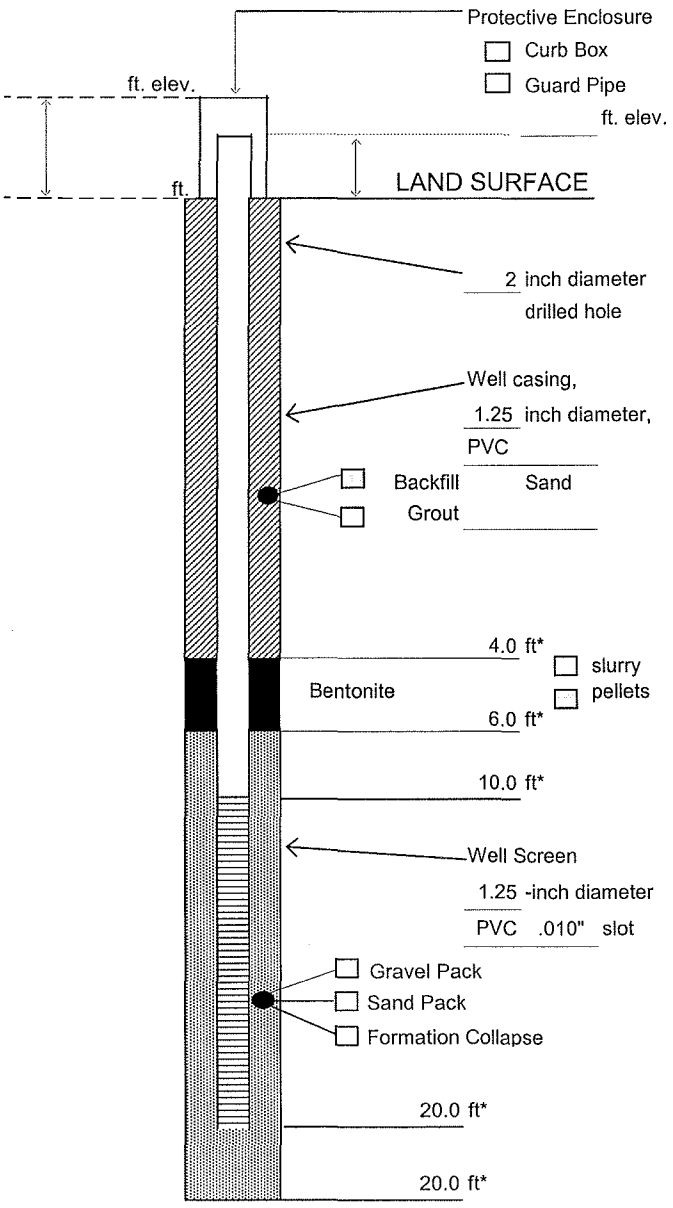
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-6

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-6 Boring No. GP-6

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.27.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser _____ ft _____ Date

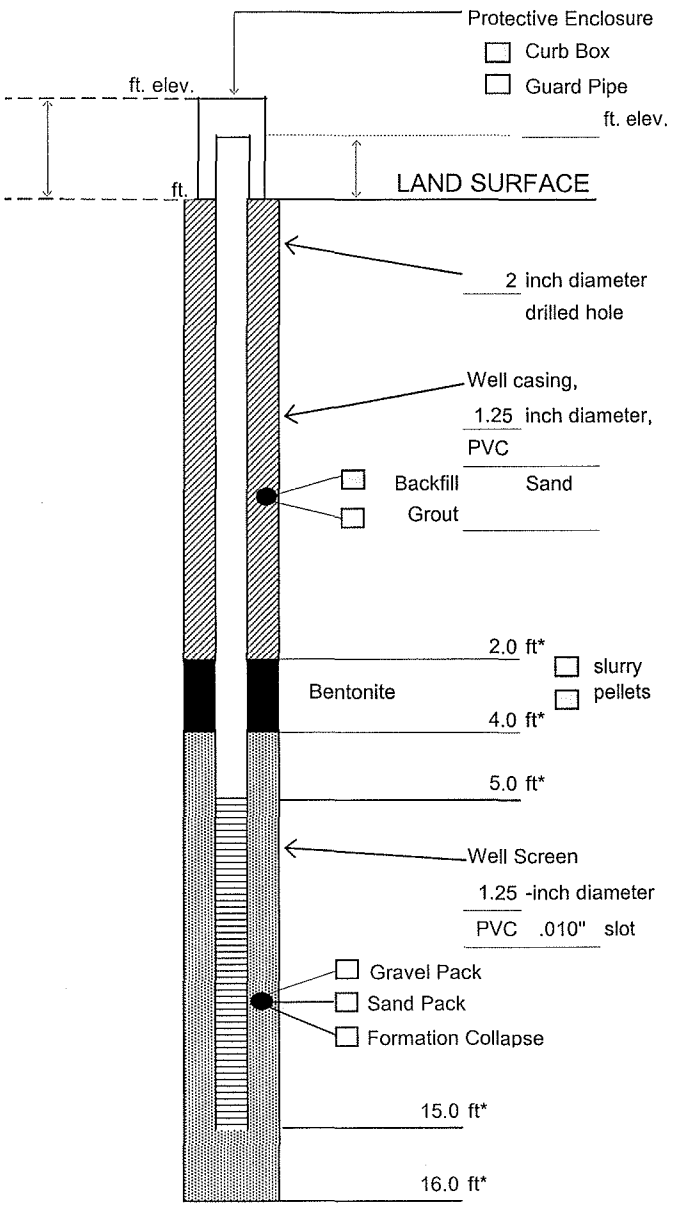
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-7

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-7 Boring No. GP-7

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.27.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser _____ ft _____ Date

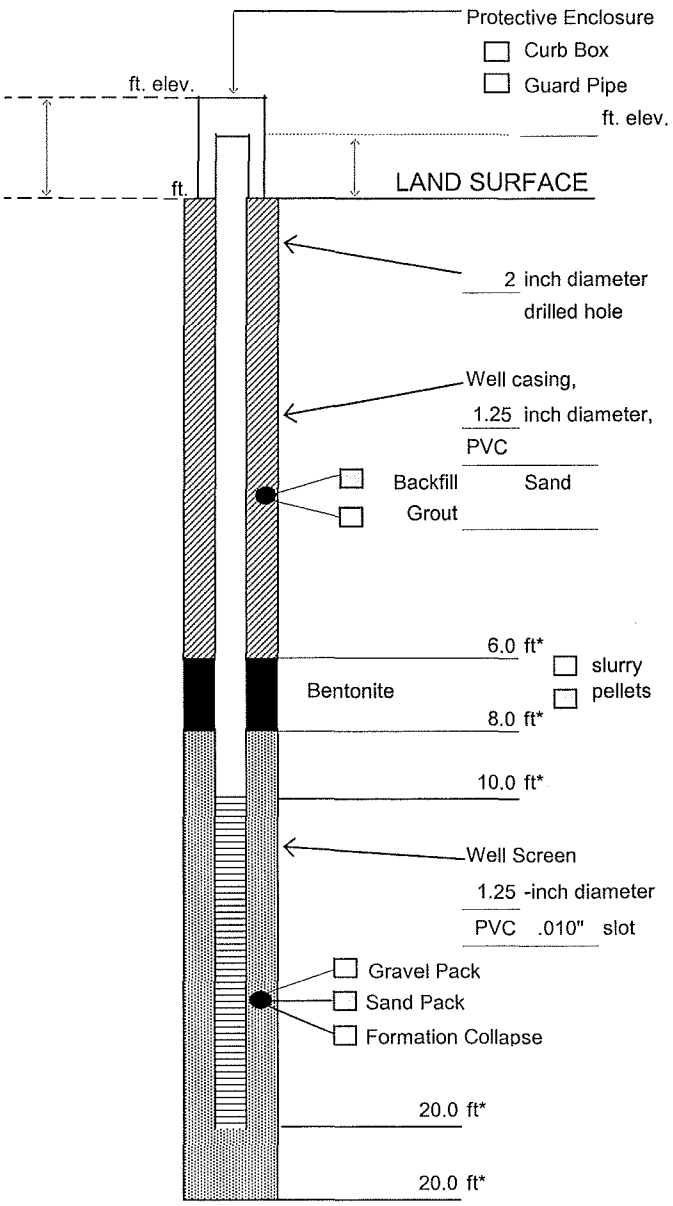
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-8

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-8 Boring No. GP-8

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.27.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser ____ ft ____ Date

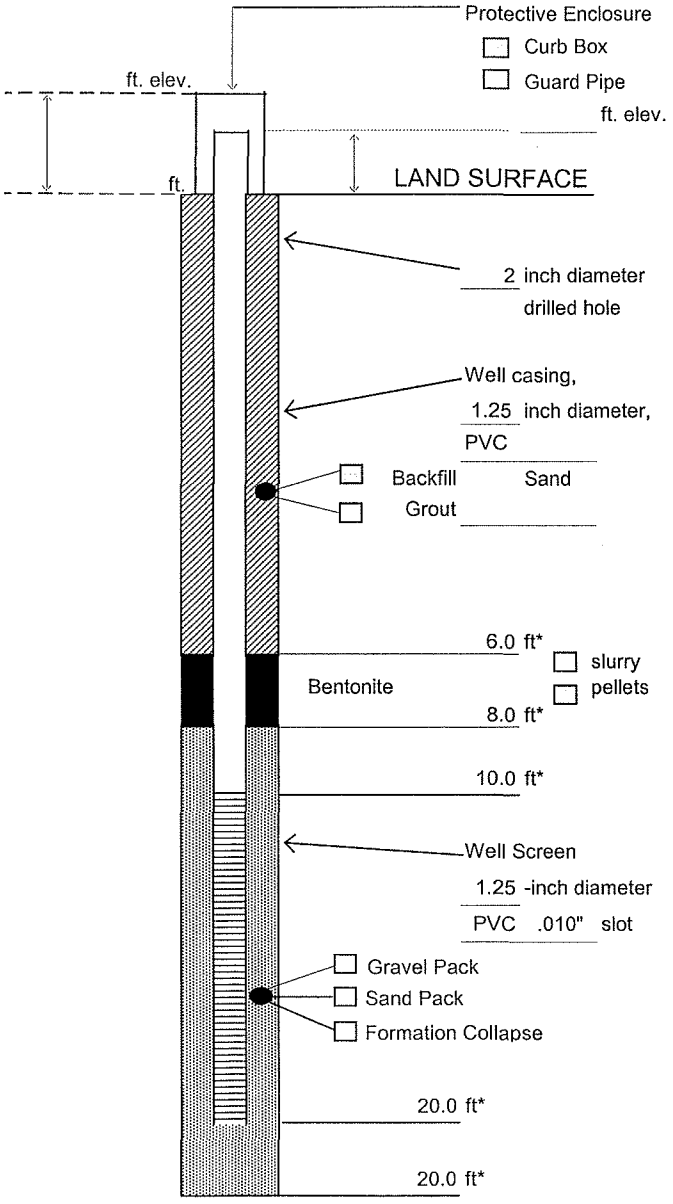
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-9

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-9 Boring No. GP-9

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.27.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser _____ ft _____ Date

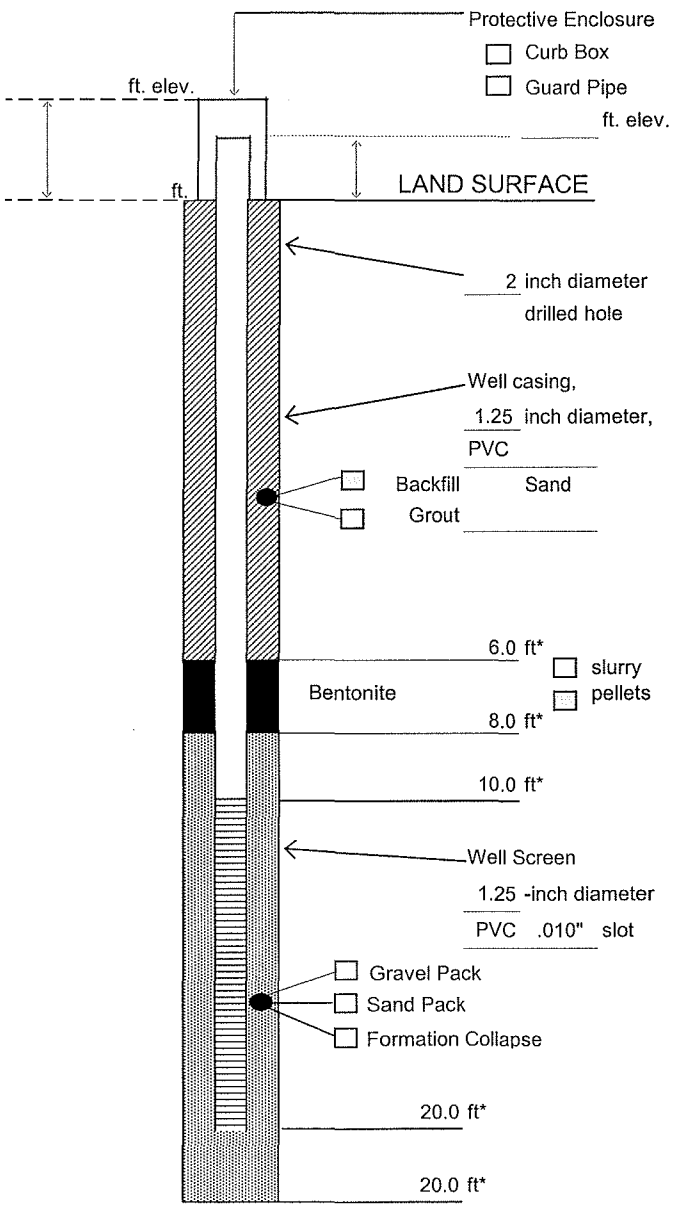
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-10

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-10 Boring No. GP-10

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.27.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser _____ ft _____
Date

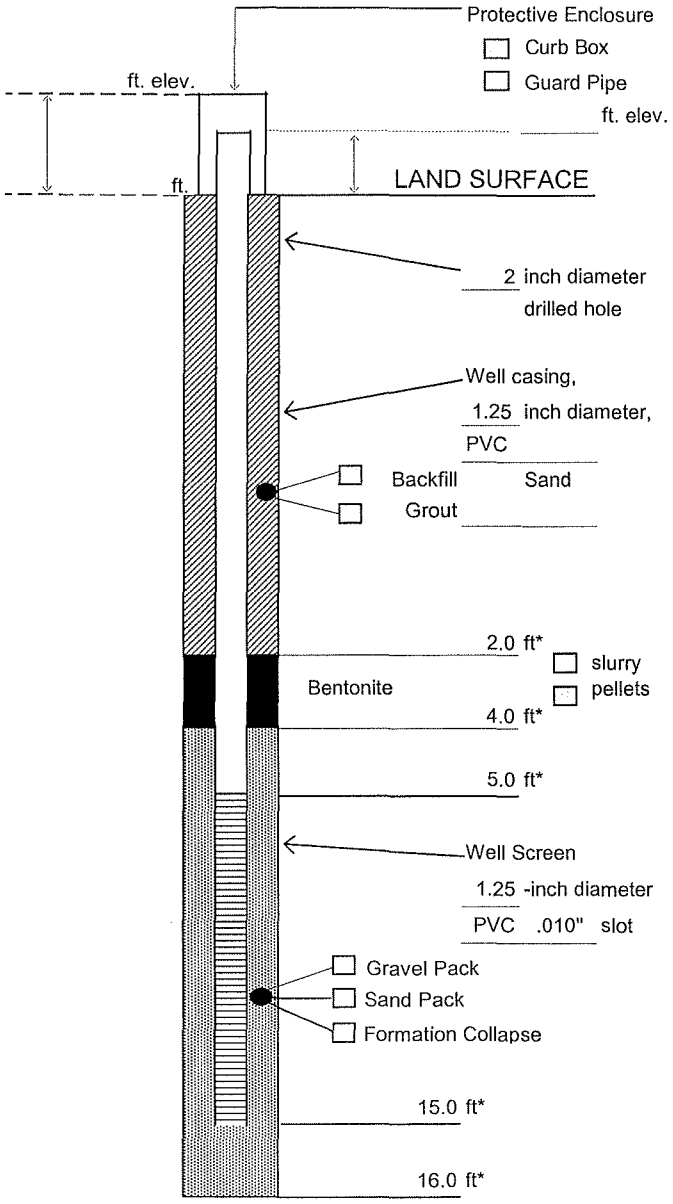
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-11

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-11 Boring No. GP-11

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.28.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser ____ ft ____ Date

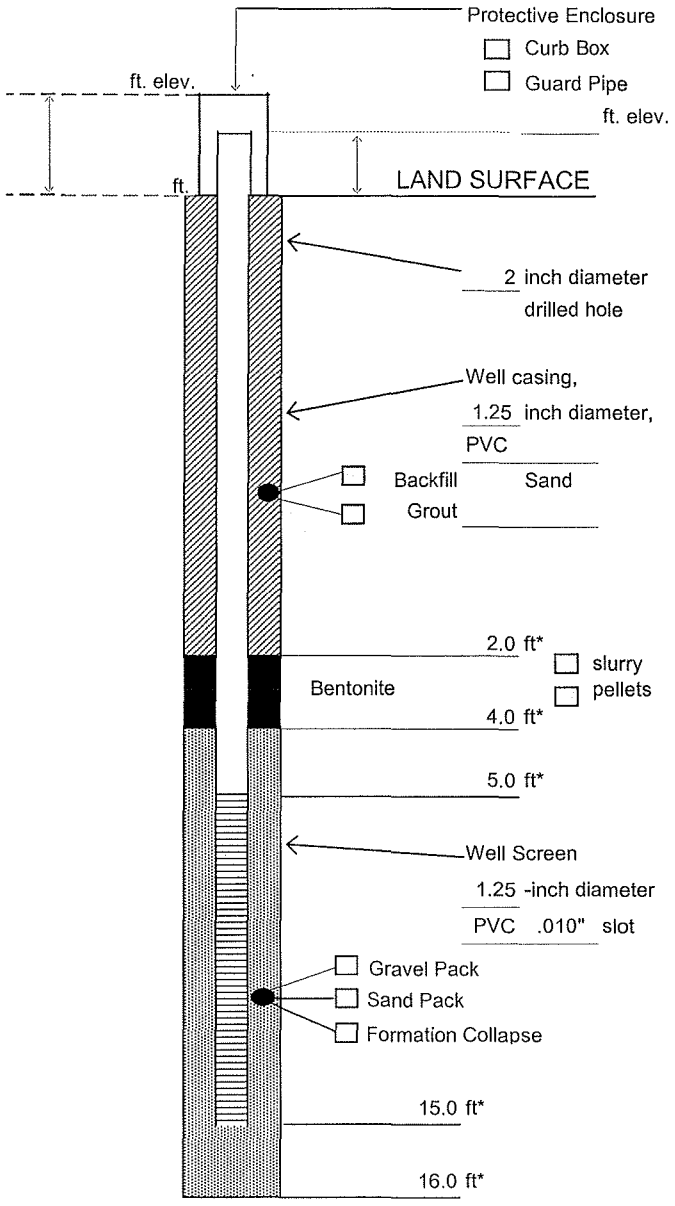
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-12

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-12 Boring No. GP-12

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 4.28.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser ____ ft ____
Date

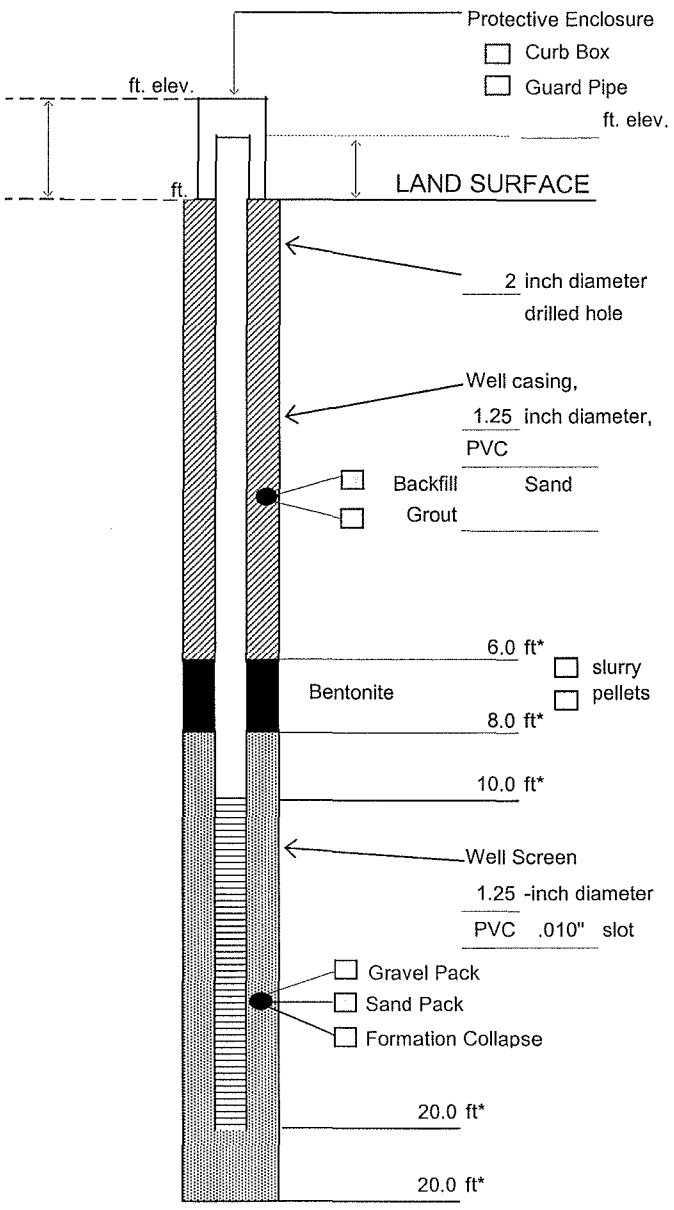
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-13

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-13 Boring No. GP-13

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 5.2.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser _____ ft _____ Date

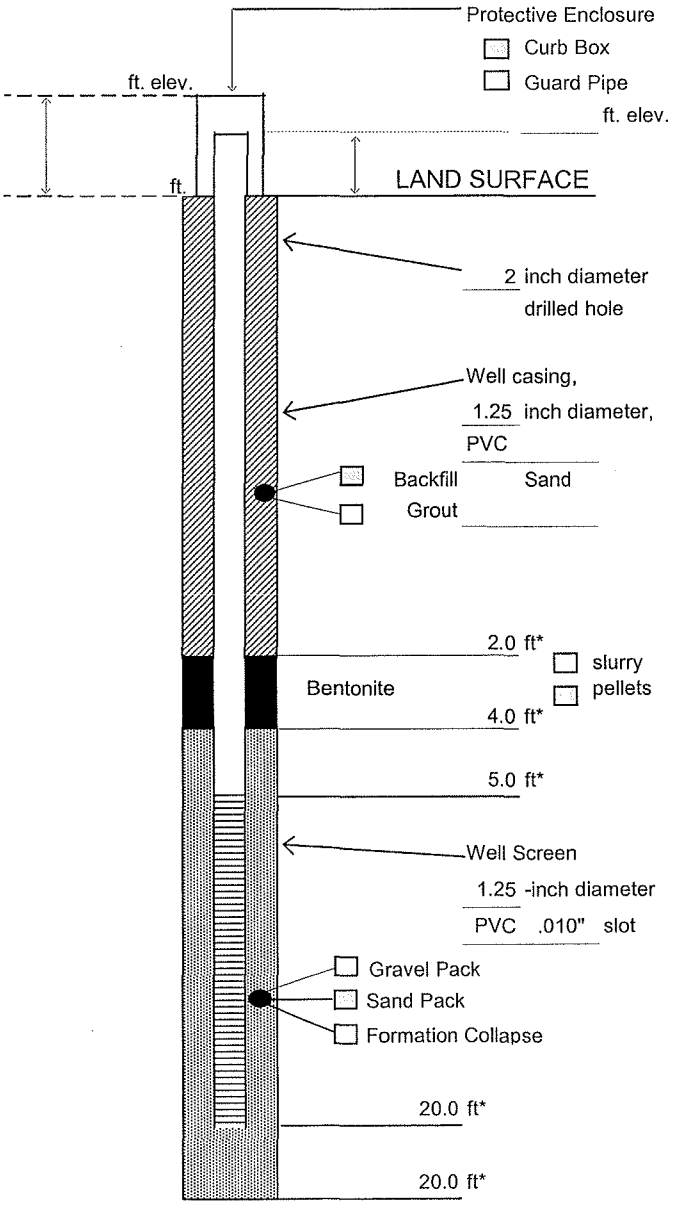
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-14

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-14 Boring No. GP-14

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 5.2.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser ____ ft ____
Date

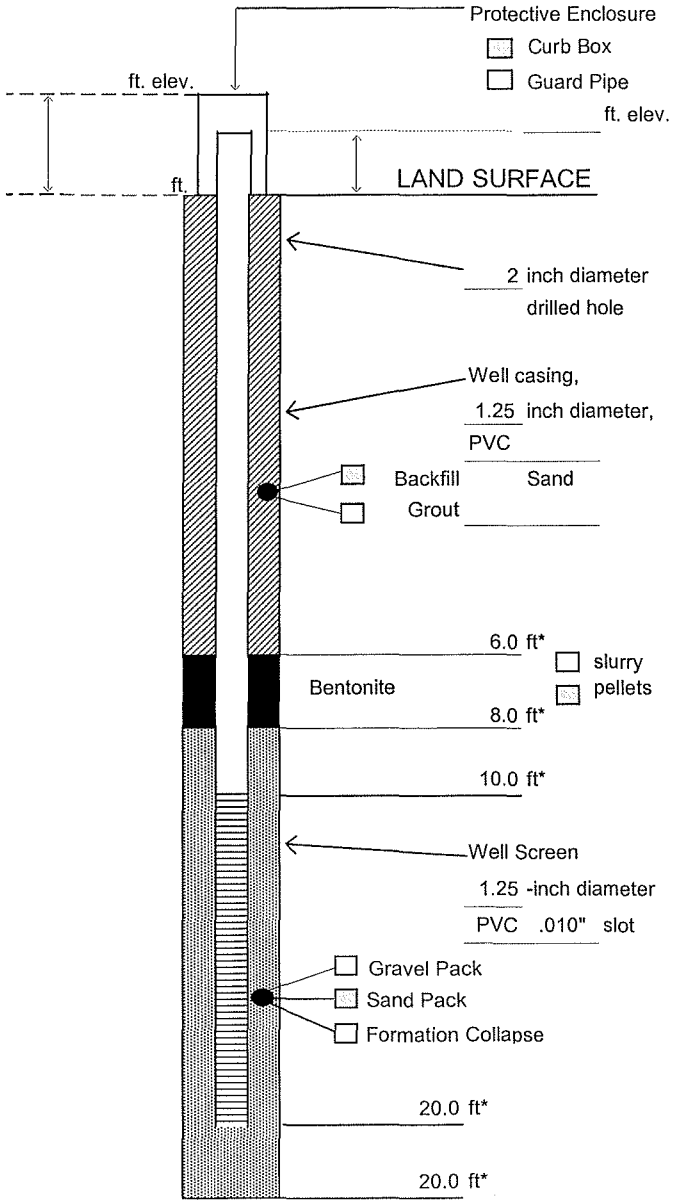
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-15

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-15 Boring No. GP-15

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 5.2.06

Drilling Contractor SJB

Drilling Method Geoprobe

Water Depth From Top of Riser _____ ft _____ Date

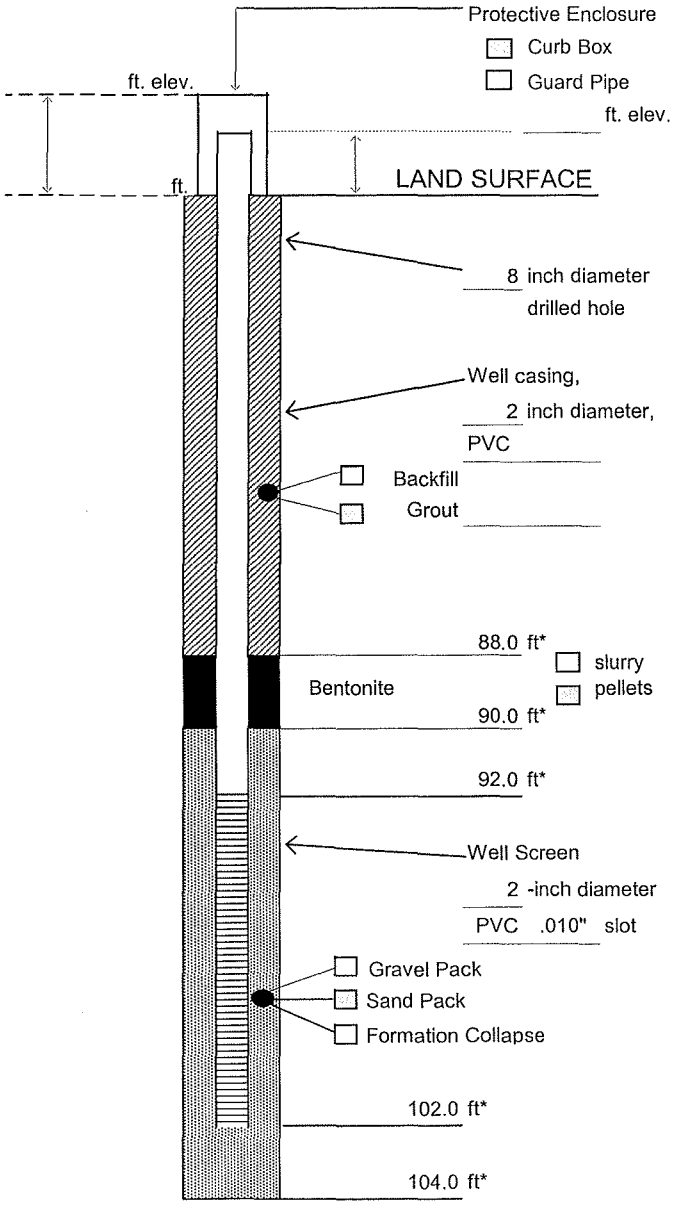
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-16

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-16 Boring No. GP-16

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 5.19.06 through 5.23.06

Drilling Contractor SJB

Drilling Method 4.25" I.D. Hollow-Stem Auger

Water Depth From Top of Riser _____ ft _____
Date

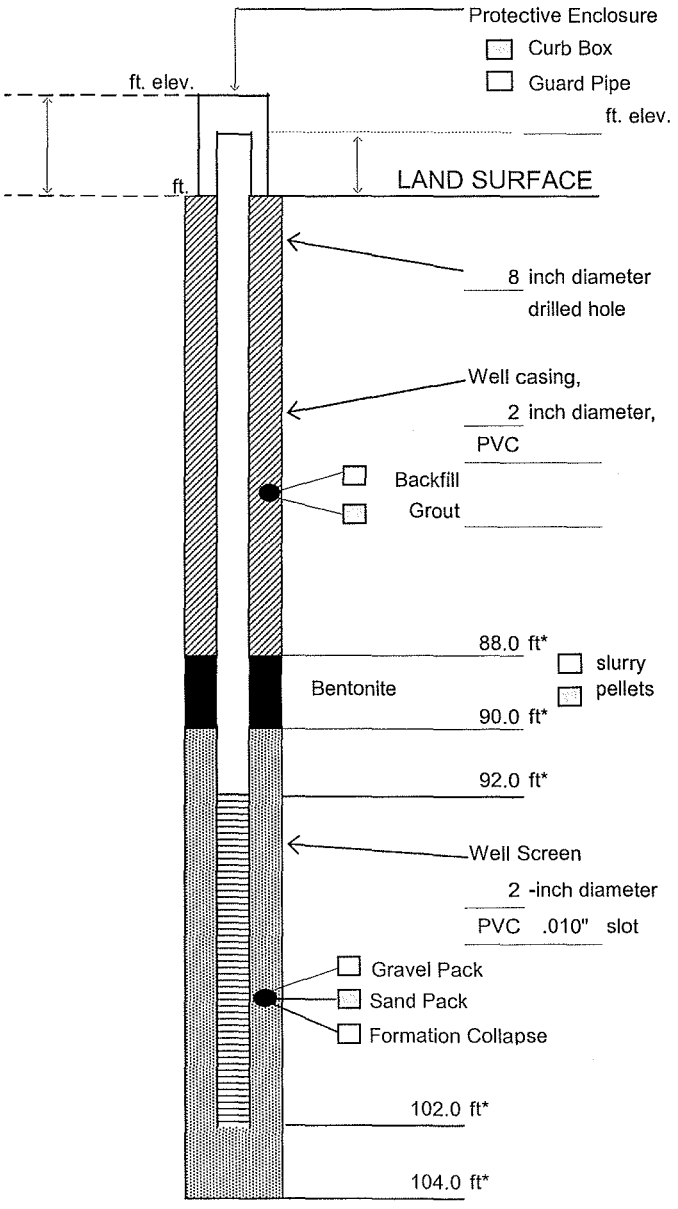
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-17

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-17 Boring No. GP-17

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 5.25.06 through 5.30.06

Drilling Contractor SJB

Drilling Method 4.25" I.D. Hollow-Stem Auger

Water Depth From Top of Riser ____ ft ____
Date

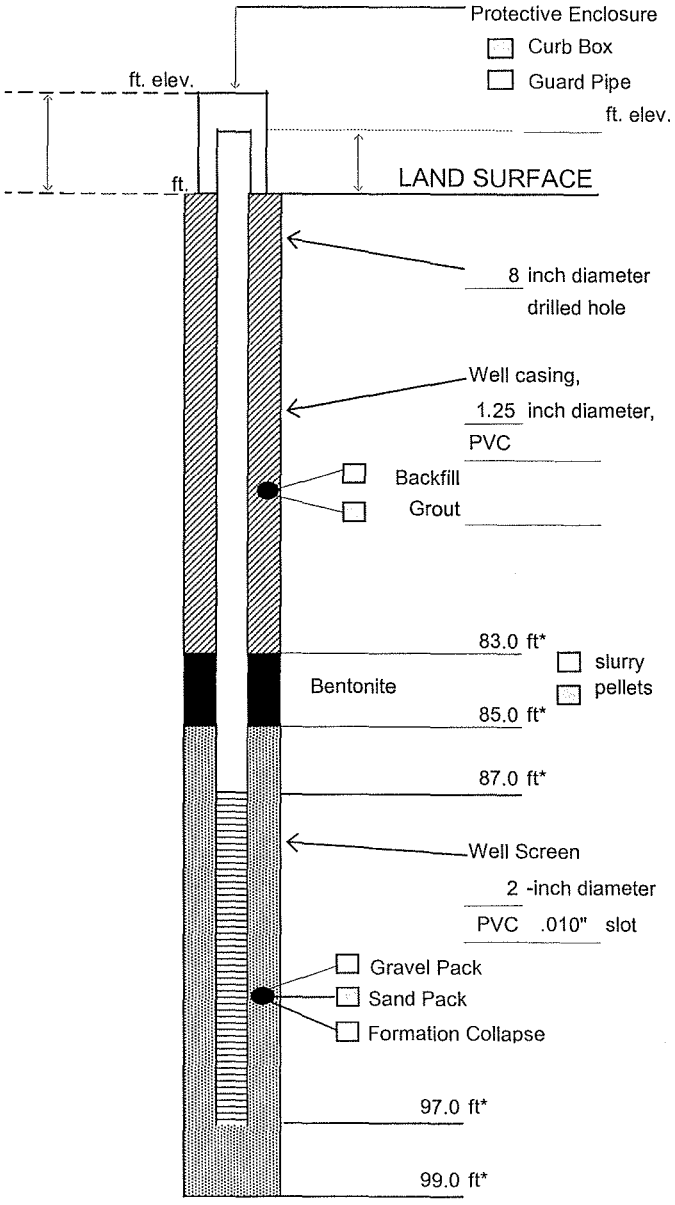
C.T. Male Observer N. Freeman

Notes:

Well No. CTM-18

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES, P.C.



* Depth below land surface.

Project Number 05.5551

Project Name 314 Clinton St.

Well No. CTM-18 Boring No. GP-18

Town/City Schenectady, NY

County Schenectady State NY

Installation Date(s) 6.1.06 and 6.2.06

Drilling Contractor SJB

Drilling Method 4.25 H.S.A

Water Depth From Top of Riser ft Date

C.T. Male Observer N. Freeman

Notes:

APPENDIX D

WASTE DISPOSAL DOCUMENTATION

MCES
MC ENVIRONMENTAL SERVICES, Inc.

526 Queensbury Avenue
Queensbury, NY 12804

518-615-0349 Fax: 615-0355

Fax Transmittal

Date: 9-7-06

# of Pages: 5
(including cover sheet)

To: Brian Baulsir
CT male Associates, PC

From: DeeDee Dicocco-Craft

Re: BOL, weight Tickets

Message:

Per your request, I'm faxing copies of:

1) BOL for Gasoline / Water

2) weight Ticket + Non Haz Waste manifest for Soil

3) weight ticket for drums that went to Scrap metal dealer.

Please let us Know if you need anything else. We appreciate the opportunity to be of service!

ESMI OF NEW YORK
304 TOWPATH ROAD
FORT EDWARD, NEW YORK 12828

(518)747-5500

TICKET NO : 2025257
DATE : 9/7/2006

MAX. ACCEPTABLE SOIL: 150.00

CUSTOMER: MCE10
MC ENVIRONMENTAL SERVICES
526 QUEENSBURY AVE.

QUEENSBURY, NY 12804

JOB NO :7720
MULTIPLEX
314 CLINTON ST
SCHENECTADY NY
RUNNING TONNAGE: 4.59

TRUCKER:
MC-001 MC ENVIRONMENTAL

GROSS : 39820 SCALE 1 IN 3:01:53PM
TARE : 30640 STORED OUT

NET : 9180 LB
4.590

MX01 02 MIX GAS & DIESEL

WEIGH MASTER: KIM MATTESON #530022

DRIVER:

REMARKS:

MATERIAL $
DELIVERY $
MISC $
TAX $

TOTAL $

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NIA

Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address
Metro Pk
312 Broadway
Schuylerville, NY

4. Generator's Phone ( )

5. Transporter 1 Company Name: M C ENVIRONMENTAL SERVICES, INC.

6. US EPA ID Number: NYR000021071

A. State Transporter's ID: 5A-175

B. Transporter 1 Phone: (518) 747-3050

C. State Transporter's ID: 105-0349

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
ESMI OF NEW YORK
304 TOWPATH ROAD
FORT EDWARD, NY 12828

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: (518) 747-5500

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. PETROLEUM CONTAMINATED SOIL	XX1	DT	459	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: JAMES B LAHUE

Signature

Date: Month 7 Day 7 Year 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month 7 Day 7 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Signature

Date: Month 7 Day 7 Year 06

NON-HAZARDOUS WASTE

Phone: 518-346-3445
Fax: 518-346-5393

T. A. PREDEL & CO., INC.

DEALERS IN WASTE MATERIALS
PAPER - HYGRADES - IRON - METALS

RECYCLING CENTER
201 Edison Ave. Schenectady, N. Y. 12301
ID# 7002768

Customer's Order No. _____ Phone No. _____ Date 9-7-06

Name MCES

Address Drums - CT mate - Metroplex Job

SOLD BY	CASH	C. O. D.	CHARGE	ON ACCT.	MDSE. RET'D	PAID OUT	

QUAN.	DESCRIPTION	PRICE	AMOUNT	
780	1 cm			
	Thank You!			
		Tax		
		Total		

ALL claims and returned goods MUST be accompanied by this bill.

093260 Rec'd by _____

NATIONAL ASSOCIATION SUPPLY COOP., INC. NEW PHILADELPHIA, OH 199501-88

APPENDIX E

GROUNDWATER SERVICES FIELD LOGS

Groundwater Services Field Log

DATE: 6/7/06 PROJECT NAME: 314 Clinton Street

PROJECT NO.: 05.5551 PROJECT LOCATION: Shenectady, NY

SAMPLING PERSONNEL: N. Freeman

MONITORING WELL ID#: CTM-17 NOTES TAKEN BY: N. Freeman

DEPTH TO WATER: 20.63 FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: 102.00 FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 81.37 BAILER: STAINLESS STEEL

OTHER

WELL CASING DIAMETER

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: 13.02 GALLONS

VOLUMES PURGED: 40.0 GALLONS PURGE METHOD: mini typhoon

TIME STARTED: 920 ; TIME FINISHED: 1033

OBSERVATIONS: COLOR H gray silt → gray silt ; ODOR None

SHEEN None ; TURBIDITY 363 NTU

OTHER

WATER RECOVERY HEIGHT: 28.40' ; RECOVERY TIME IN MINUTES: 57

FIELD PARAMETERS: pH 8.25 S.U. , TEMPERATURE 15.4°C

CONDUCTIVITY 0.350 ms/cm UMHO/CM, OTHER

SAMPLE COLLECTION TIME: 1130

NOTES:

Time	Temp.	Cond. (ms/cm)	pH. (S.U.)	Turbidity
940	15.9°C	.366	7.50	>800
1001	15.8°C	.351	8.20	>800
1026	15.6°C	.371	7.03	780
1032	15.8°C	.349	7.59	>800

Groundwater Services Field Log

DATE: 6/7/06 PROJECT NAME: 314 Clinton Street

OJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

MPLING PERSONNEL: N. Freeman

MONITORING WELL ID#: CTM-16 NOTES TAKEN BY: NF

EPTH TO WATER: 20.05' FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: 102.0 FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 81.95' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

ELL CASING DIAMETER 1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

WELL VOLUME: 13.11 GALLONS 2" = 0.16 GALLONS 6" = 1.47 GALLONS

VOLUMES PURGED: 40.0 GALLONS PURGE METHOD: mini typhon

IME STARTED: 1212 ; TIME FINISHED: 1315

OBSERVATIONS: COLOR very cloudy → clear ; ODOR None

SHEEN None ; TURBIDITY 13 NTU

OTHER

WATER RECOVERY HEIGHT: 28.40' ; RECOVERY TIME IN MINUTES: 45

IELD PARAMETERS: pH 8.29 5.0 , TEMPERATURE 15°C °C

CONDUCTIVITY .292 us/cm UMHO/CM, OTHER

AMPLE COLLECTION TIME: 1400 & MSMSD

NOTES:

Time	Temp.	PH	Cond.	Turb.
1220	15.4	8.21	0.342	< 800
1240	15.9	8.40	0.314	319
1254	15.2	8.31	0.296	182
1310	15.3	8.34	0.301	186
1485	14.4	8.25	0.302	27

Groundwater Services Field Log

DATE: 6/7/06 PROJECT NAME: 314 Clinton Street

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

SAMPLING PERSONNEL: N. Freeman

MONITORING WELL ID#: CTM-18 NOTES TAKEN BY: NF

DEPTH TO WATER: 18.29' FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: 92.80' FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 74.51 BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: 11.92 GALLONS

VOLUMES PURGED: 36.0 GALLONS PURGE METHOD: mini typhoon

TIME STARTED: 1440 ; TIME FINISHED: 1535

OBSERVATIONS: COLOR lt gray silt → cloudy ; ODOR None

SHEEN None ; TURBIDITY 6.0 NTU

OTHER

WATER RECOVERY HEIGHT: 29.40 ; RECOVERY TIME IN MINUTES: 40

FIELD PARAMETERS: pH 8.63 S.U , TEMPERATURE 15.0 °C

CONDUCTIVITY 0.444 us/cm UMHO/CM, OTHER

SAMPLE COLLECTION TIME: 1615

NOTES:

Time	Temp.	Cond	PH	Turb.
1445	15.2°C	0.445	8.65	625
1458	15.1°C	0.457	8.79	518
1515	15.2	0.450	8.54	762
1535	15.2	0.446	8.46	485

Groundwater Services Field Log

DATE: 6/8/06 PROJECT NAME: 314 Clinton

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady NY

SAMPLING PERSONNEL: B Bouchard, N. Freeman

MONITORING WELL ID#: CTM-1 NOTES TAKEN BY: BB

DEPTH TO WATER: 9.23 FROM: TPVC BAILER ID:

DEPTH TO BOTTOM: 15.00 FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 5.77 BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: .37 GALLONS

VOLUMES PURGED: ~~3~~ BB .75/Dry GALLONS PURGE METHOD: Peristaltic Pump

TIME STARTED: ~~08:25~~ BB 08:43 am ; TIME FINISHED: 8:50 am

OBSERVATIONS: COLOR Lt Gray Silt ; ODOR None

SHEEN None ; TURBIDITY 79

OTHER

WATER RECOVERY HEIGHT: 9.25 ; RECOVERY TIME IN MINUTES: 100 min

FIELD PARAMETERS: pH 6.97 , TEMPERATURE 15.0 °C

CONDUCTIVITY 2.60 ms ~~UMHO~~/CM, OTHER

SAMPLE COLLECTION TIME: 10:30 AM

NOTES:

Time	Temp	Cond	pH	Turb
8:46	15.3°C	1.81 ~~m~~ uS/cm	6.39 su	303 ntu
8:50	14.9°C	1.93 uS/cm	6.56 su	815 ntu

Sheet 1 of __

Groundwater Services Field Log

DATE: 6/8/04 PROJECT NAME: 314 Clinton

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

SAMPLING PERSONNEL: B. Brussee N. Freeman

MONITORING WELL ID#: CTM-2 NOTES TAKEN BY: BB

DEPTH TO WATER: 9.78 FROM: TPVC BAILER ID:

DEPTH TO BOTTOM: 14.9 FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 5.12 BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: .33 GALLONS

VOLUMES PURGED: 1.2 GALLONS PURGE METHOD:

TIME STARTED: 09:17 ; TIME FINISHED: 09:80 9:50 am

OBSERVATIONS: COLOR Lt Gray Brown S.lt ; ODOR None

SHEEN None ; TURBIDITY 200 NTU

OTHER

WATER RECOVERY HEIGHT: 9.8 ; RECOVERY TIME IN MINUTES:

FIELD PARAMETERS: pH 6.91 s.u , TEMPERATURE 14.5°C

CONDUCTIVITY 3.91 ~~MS~~ mS/cm ~~UMHO~~/CM, OTHER

SAMPLE COLLECTION TIME: 10:05

NOTES:

Time	Temp	Cond	pH	Turb
9:19	15.2°C	4.28 uS/cm	6.7 su	138 ntu
9:24	14.6°C	3.72 mS/cm	6.77 su	424 ntu
9:28	14.7°C	3.82 uS/cm	6.79 su	270 ntu
9:43	14.6°C	3.83	6.88	273
9:48	14.3°C	3.88	6.86	756

Groundwater Services Field Log

DATE: 6/8/06 PROJECT NAME: 314 Clinton St

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady NY

SAMPLING PERSONNEL: B. Bausch

MONITORING WELL ID#: CTM-5 NOTES TAKEN BY: TSB

DEPTH TO WATER: 12.95 FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: 19.94 FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 6.99 BAILER: STAINLESS STEEL

OTHER NA

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

(1.25") = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: .45 GALLONS

VOLUMES PURGED: 3.5 GALLONS PURGE METHOD: Peristaltic Pump

TIME STARTED: 14:20 ; TIME FINISHED: 15:15

OBSERVATIONS: COLOR L. Gray → clear ; ODOR None

SHEEN None ; TURBIDITY 3 ntu

OTHER N/A

WATER RECOVERY HEIGHT: 13.06 ; RECOVERY TIME IN MINUTES: 19 min

FIELD PARAMETERS: pH 6.53 , TEMPERATURE 14.9°C

CONDUCTIVITY 4.98 ~~UMHO~~ mS/CM, OTHER NA

SAMPLE COLLECTION TIME: 3:00 pm

NOTES:

Time	Turb	Temp	pH	Cond
2:26	74	15.4°C	6.72	4.79 mS
2:32	42	14.9	6.71	4.81
2:41	*(-5)	15.7	6.47	4.82

Sheet 1 of __

* Recalibrated after negative turbidity reading

N. Freeman - off @ 11:45

Groundwater Services Field Log

DATE: 6/8/06 PROJECT NAME: 314 Clinton St

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

SAMPLING PERSONNEL: B. Brewer

MONITORING WELL ID#: CTM-4 NOTES TAKEN BY: BB

DEPTH TO WATER: 10.6 FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: 14.85 FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 4.25' BAILER: STAINLESS STEEL N/A

OTHER N/A

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

(1.25") = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: .27 GALLONS

VOLUMES PURGED: _____ GALLONS PURGE METHOD: Peristaltic Pump

TIME STARTED: 12.24 pm ; TIME FINISHED: 12:53

OBSERVATIONS: COLOR L. grey ; ODOR None

SHEEN None ; TURBIDITY 12 ntu

OTHER N/A

WATER RECOVERY HEIGHT: 10.8 ; RECOVERY TIME IN MINUTES: 17 min

FIELD PARAMETERS: pH 6.42 , TEMPERATURE 15.3°C

CONDUCTIVITY 19.7 ~~UMHO~~ mS/CM, OTHER N/A

SAMPLE COLLECTION TIME: 13:10

NOTES:

Time	Turb	Temp	pH	Cond
1225	41 ntu	15.4 °C	6.63 su	21.6 us/cm
12:29	179 ntu	15.2 °C	6.54 su	21.2 us/cm
12:34	262 ntu	15.0 °C	6.45 su	19.5 us/cm
12:46	9 ntu	15.4 °C	6.53 su	21.3 us/cm
12:51	12 ntu	15.4 °C	6.41 su	19.1 us/cm

Sheet 1 of __

* Well Went Dry During Post Sample → Balance → Final Sample

Groundwater Services Field Log

DATE: 6/8/06 PROJECT NAME: 314 Clinton St

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

SAMPLING PERSONNEL: B. Bauser, N. Freeman

MONITORING WELL ID#: CTM-3 NOTES TAKEN BY: BB

DEPTH TO WATER: 12.08 FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: 14.4 FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 2.32 BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER		
	1" = 0.041 GALLONS	3" = 0.38 GALLONS
	(1.25" = 0.064 GALLONS)	4" = 0.66 GALLONS
	2" = 0.16 GALLONS	6" = 1.47 GALLONS

WELL VOLUME: .15 / Dry GALLONS

VOLUMES PURGED: .5 gal GALLONS PURGE METHOD: Peristaltic Pump

TIME STARTED: 11:04 ; TIME FINISHED: 11:13

OBSERVATIONS: COLOR Light Brown Silt → clear ; ODOR None

SHEEN None ; TURBIDITY 28 NTU

OTHER

WATER RECOVERY HEIGHT: 12.12 ; RECOVERY TIME IN MINUTES: 17

FIELD PARAMETERS: pH 6.80 S.U. , TEMPERATURE 15.7 °C

CONDUCTIVITY 5.06 ms/cm ~~UMHO/CM~~ OTHER

SAMPLE COLLECTION TIME: 1130

NOTES:

Time	Temp	Turb	pH	Cond.
11:06	15.5 °C	89 ntu	7.15 SU	4.49 us/cm
11:10	14.5 °C	265 ntu	6.9 SU	4.79 us/cm
11:12	14.6 °C	135 ntu	6.93 SU	4.88 us/cm

Groundwater Services Field Log

DATE: 6/8/06 PROJECT NAME: 314 Clinton

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

SAMPLING PERSONNEL: B. Bauser N Freeman

MONITORING WELL ID#: CTM-10 NOTES TAKEN BY: BB

DEPTH TO WATER: 11.99 FROM: TOC BAILER ID:

DEPTH TO BOTTOM: 18.77 FROM: TOC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 6.78' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER 1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

WELL VOLUME: .143 (Dry @ 1425) GALLONS 2" = 0.16 GALLONS 6" = 1.47 GALLONS

VOLUMES PURGED: 1.0 gal / Dry (@ 1428) GALLONS PURGE METHOD: Peristaltic Pump

TIME STARTED: 2:15 pm (14:15) ; TIME FINISHED: (14:28) 2:28

OBSERVATIONS: COLOR L. Brown Silt ; ODOR None

SHEEN ; TURBIDITY 194 ntu

OTHER N/A N/A

WATER RECOVERY HEIGHT: 12.6 ; RECOVERY TIME IN MINUTES: 22 min

FIELD PARAMETERS: pH 6.65 su , TEMPERATURE 15.9 °C

CONDUCTIVITY 2.88 ms/cm UMHO/CM, OTHER N/A

SAMPLE COLLECTION TIME: 14:50

NOTES:

Time	Turb	Temp	pH	Cond
2:18	105 ntu	16.2 °C	7.08 su	2.92 ms/cm
2:23	244 ntu	15.9 °C	6.62 su	2.89 ms/cm
2:26	139 ntu	15.80 °C	6.57 su	2.89 ms/cm

* 2-40 ml VOA's only

Sheet 1 of __

Groundwater Services Field Log

DATE: 6/8/06 PROJECT NAME: 3/4 Clinton

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

SAMPLING PERSONNEL: B. Bauder

MONITORING WELL ID#: CTW-9 NOTES TAKEN BY: BB

DEPTH TO WATER: 13.36 FROM: TOC BAILER ID:

DEPTH TO BOTTOM: 19.43 FROM: TOC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 6.07' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: .39 GALLONS

VOLUMES PURGED: 4.0 / Dry GALLONS PURGE METHOD: Peristaltic Pump

TIME STARTED: 12:38 ; TIME FINISHED: 1310

OBSERVATIONS: COLOR H. Grey Brown Silt ; ODOR None

SHEEN None ; TURBIDITY 381 NTU

OTHER

WATER RECOVERY HEIGHT: 13.8' ; RECOVERY TIME IN MINUTES: 19m

FIELD PARAMETERS: pH 6.73 5.0 , TEMPERATURE 15.0 °C

CONDUCTIVITY 4.13 ~~mS/cm~~ UMHO/CM, OTHER

SAMPLE COLLECTION TIME: 1335 * GW-DUP.

NOTES:

Time	Turb	Temp	pH	Cond
1241	999 ntu	15.6	6.64	3.18
1244	999	15.4	6.64	3.37
1249	999	15.0	6.64	3.51
1253	999	14.7	6.68	3.66
1258	757	14.8	6.52	3.75
1304	524	14.6	6.65	3.80
1308	98	14.6	6.68	3.93

Groundwater Services Field Log

DATE: 6/9/06 PROJECT NAME: 314 Clinton St

PROJECT NO.: 055551 PROJECT LOCATION: Schenectady, NY

SAMPLING PERSONNEL: B. Baucsir

MONITORING WELL ID#: CTW-7 NOTES TAKEN BY: BB

DEPTH TO WATER: 4.3' FROM: TOC BAILER ID:

DEPTH TO BOTTOM: 14.6' FROM: TOC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 10.3' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: .67 GALLONS

VOLUMES PURGED: GALLONS PURGE METHOD: Peristaltic Pump

TIME STARTED: 11:15 ; TIME FINISHED: 11:49

OBSERVATIONS: COLOR L. Brown → Clear ; ODOR None

SHEEN None ; TURBIDITY 7 ntu

OTHER

WATER RECOVERY HEIGHT: 4.3 ; RECOVERY TIME IN MINUTES: 13 mn

FIELD PARAMETERS: pH 7.27 , TEMPERATURE 16.3 °C

CONDUCTIVITY .461 ~~UMHO~~ mS CM, OTHER N/A

SAMPLE COLLECTION TIME: 12 noon Used for MS/MSD

NOTES:

Time	Turb	Temp	pH	Cond
11:17	64	16.1	7.45	.405
11:23	N/A Recal	16.0	7.37	.413
11:32	0	16.1	6.80	.434
11:36	0	16.1	7.04	.444
11:39	0	15.9	7.24	.448
11:43	0	15.9	7.28	.451
11:47	0	15.9	7.26	.451

Groundwater Services Field Log

DATE: 6/9/06 PROJECT NAME: 314 Clinton St

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady NY

SAMPLING PERSONNEL: B. Brauser

MONITORING WELL ID#: CTM-6 NOTES TAKEN BY: BB

DEPTH TO WATER: 13.1 FROM: Tpvc BAILER ID:

DEPTH TO BOTTOM: 19.39 FROM: Tpvc BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 6.29 BAILER: STAINLESS STEEL

OTHER

NA

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER			
	1" = 0.041 GALLONS	3" = 0.38 GALLONS	
	1.25" = 0.064 GALLONS	4" = 0.66 GALLONS	
	2" = 0.16 GALLONS	6" = 1.47 GALLONS	

WELL VOLUME: .40 GALLONS

VOLUMES PURGED: 2.5 GALLONS PURGE METHOD: Peristaltic Pump

TIME STARTED: 0900 ; TIME FINISHED: 10:44

OBSERVATIONS: COLOR: Brown Slt → Clear ; ODOR None

SHEEN None ; TURBIDITY 765 ntu

OTHER NA

WATER RECOVERY HEIGHT: 13.1 ; RECOVERY TIME IN MINUTES: 30m

FIELD PARAMETERS: pH 6.92 su , TEMPERATURE 15.8 °C

CONDUCTIVITY 3.25 ~~uMHO~~ ms/CM, OTHER NA

SAMPLE COLLECTION TIME: 10:15

NOTES:

Time	Turb	Temp	pH	Conductivity
9:13	999 ntu	15.9 °C	6.59 su	2.56 ms/cm
9:19	179 ntu	15.5 °C	6.87 su	2.97 ms/cm
9:28	999 ntu	15.4 °C	6.93 su	3.10 ms/cm
9:37	999 ntu	15.7 °C	6.93	3.12 ms/cm

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EPA Modified Low Flow

Groundwater Services Field Log

DATE: 6/12/06 PROJECT NAME: 314 Clinton Street

PROJECT NO.: 05,5551 PROJECT LOCATION: Schenectady

SAMPLING PERSONNEL: N. Freeman

MONITORING WELL ID#: CTM-11 NOTES TAKEN BY: NF

DEPTH TO WATER: 7.21' FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: 14.70' FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 7.49' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GALLONS	3" = 0.38 GALLONS
1.25" = 0.064 GALLONS	4" = 0.66 GALLONS
2" = 0.16 GALLONS	6" = 1.47 GALLONS

WELL CASING DIAMETER

WELL VOLUME: 0.48 GALLONS

VOLUMES PURGED: 2.0 GALLONS PURGE METHOD: peristaltic pump

TIME STARTED: 840 ; TIME FINISHED: 855

OBSERVATIONS: COLOR clear ; ODOR None

SHEEN None ; TURBIDITY 8 NTU

OTHER

WATER RECOVERY HEIGHT: 7.21' ; RECOVERY TIME IN MINUTES: ~~NF~~ 905

FIELD PARAMETERS: pH 7.17 S.U. , TEMPERATURE 14.0 °C

CONDUCTIVITY 1.37 ms/cm UMHO/CM, OTHER

SAMPLE COLLECTION TIME: 900

NOTES:

Time	Temp, °C	Cond, ms/cm	pH, S.U.	Turb. NTU
842	13.0	1.36	6.78	230
845	13.7	1.35	6.99	13
848	13.4	~~1.19~~ NF 1.35	7.05	10
851	13.4	1.37	7.05	11
854	13.4	1.36	7.09	9

Groundwater Services Field Log

)ATE: 6/12/06 PROJECT NAME: 314 Clinton Street

:)JECT NO.: 05.6551 PROJECT LOCATION: Schenectady

.' MPLING PERSONNEL: N. Freeman

MONITORING WELL ID#: CTM-12 NOTES TAKEN BY: NF

: PTH TO WATER: 7.14' FROM: TPVC BAILER ID: NA

)EPTH TO BOTTOM: 14.80' FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

VATER COLUMN HEIGHT: 7.66' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

ELL CASING DIAMETER 1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

'ELL VOLUME: 0.49 GALLONS 2" = 0.16 GALLONS 6" = 1.47 GALLONS

/OLUMES PURGED: 1.0/Dry GALLONS PURGE METHOD: peristaltic pump

ME STARTED: 923 ; TIME FINISHED: 932

)BSERVATIONS: COLOR L. Silt (Brown) → Clear ; ODOR None

SHEEN None ; TURBIDITY 2.43 NTU

OTHER

VATER RECOVERY HEIGHT: 7.82' ; RECOVERY TIME IN MINUTES:

IELD PARAMETERS: pH 7.34 S.U. , TEMPERATURE 14.8 °C

CONDUCTIVITY 0.681 ~~UMHO~~ MS/CM, OTHER

AMPLE COLLECTION TIME: 1000

IOTES:

Time	Temp.	PH	Cond.	Turb.
925	13.7	7.12	0.648	145
928	14.3	7.26	0.668	670
931	14.0	7.24	0.676	580
934				

heet 1 of __

Groundwater Services Field Log

DATE: 6/12/06 PROJECT NAME: 314 Clinton Street

OJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

AMPLING PERSONNEL: N. Freeman

MONITORING WELL ID#: CTM-13 NOTES TAKEN BY: NF

EPTH TO WATER: 12.82' FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: 19.40' FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

ATER COLUMN HEIGHT: 6.58' BAILER: STAINLESS STEEL

OTHER

ELL CASING DIAMETER

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GALLONS 3" = 0.38 GALLONS

1.25" = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

ELL VOLUME: 0.42 GALLONS

OLUMES PURGED: 1.0 / Dry GALLONS PURGE METHOD: peristaltic pump

ME STARTED: 1030 ; TIME FINISHED: 1039

BSERVATIONS: COLOR L. Brown silt ; ODOR None

SHEEN None ; TURBIDITY 198 NTU

OTHER

ATER RECOVERY HEIGHT: ~~13.42~~ NF 13.42' ; RECOVERY TIME IN MINUTES:

ELD PARAMETERS: pH 7.11 S.U. , TEMPERATURE 15.2 °C

CONDUCTIVITY 5.75 ~~UMHO~~ mS/CM, OTHER

AMPLE COLLECTION TIME: 1100

OTES:

Time	Temp.	pH	Cond.	Turb.
1032	15.8	7.38	5.76	73
1035	15.4	7.11	5.71	185
1038	16.3	7.13	5.75	183
1041				

Groundwater Services Field Log

DATE: 6/12/06 PROJECT NAME: 314 Clinton Street

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

SAMPLING PERSONNEL: N. Freeman

MONITORING WELL ID#: CTM-15 NOTES TAKEN BY: NF

DEPTH TO WATER: 12.27' FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: 19.40' FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 7.13' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER			
	1" = 0.041 GALLONS	3" = 0.38 GALLONS	
	~~1.25"~~ = 0.064 GALLONS	4" = 0.66 GALLONS	
WELL VOLUME: 0.45 GALLONS	2" = 0.16 GALLONS	6" = 1.47 GALLONS	

VOLUMES PURGED: 1.0/0rx GALLONS PURGE METHOD: peristaltic pump

TIME STARTED: 1127 ; TIME FINISHED: 1138

OBSERVATIONS: COLOR L. Silt (Brown) → clear ; ODOR None

SHEEN None ; TURBIDITY 196 NTU

OTHER

WATER RECOVERY HEIGHT: 12.91' ; RECOVERY TIME IN MINUTES:

FIELD PARAMETERS: pH 7.26 S.U. , TEMPERATURE 16.8 °C

CONDUCTIVITY 9.20 ~~UMHO~~ mS/CM, OTHER

SAMPLE COLLECTION TIME: 1205

NOTES:

Time	Temp	pH	Cond	Turb.
1128	17.4	7.03	8.32	110
1131	16.4	7.19	8.20	430
1134	15.7	7.13	8.53	442
1137	16.0	7.11	8.62	546
1140				

Groundwater Services Field Log

DATE: 6/12/06 PROJECT NAME: 314 Clinton Street

PROJECT NO.: 05.5551 PROJECT LOCATION: Schenectady

SAMPLING PERSONNEL: N. Freeman

MONITORING WELL ID#: CTM-14 NOTES TAKEN BY: NF

DEPTH TO WATER: 12.03' FROM: TPVC BAILER ID: NA

DEPTH TO BOTTOM: ± 20.0 FROM: TPVC BAILER: LAB CLEANED / FIELD CLEANED

WATER COLUMN HEIGHT: 7.97' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

~~1.25"~~ = 0.064 GALLONS 4" = 0.66 GALLONS

WELL VOLUME: 0.51 GALLONS 2" = 0.16 GALLONS 6" = 1.47 GALLONS

VOLUMES PURGED: 1.2 | Dry GALLONS PURGE METHOD: peristaltic pump

TIME STARTED: 1233 ; TIME FINISHED: 1245

OBSERVATIONS: COLOR H. Brown Silt ; ODOR None

SHEEN None ; TURBIDITY NTU

OTHER

WATER RECOVERY HEIGHT: ? ; RECOVERY TIME IN MINUTES:

FIELD PARAMETERS: pH 7.18 S.U , TEMPERATURE 16.9 °C

CONDUCTIVITY 7.95 ~~UMHO~~ mS/CM, OTHER

SAMPLE COLLECTION TIME: 1315

NOTES: * Blockage @ 12.30' cant get WLP down - but can get tubing by

Time	Temp	PH	Cond.	Turb.
1235	17.8	7.03	7.92	460
1238	16.0	7.02	7.45	<999
1241	16.1	7.06	7.57	<999

APPENDIX F

CDs of LABORATORY ANALYTICAL DATA (UNVALIDATED)