MAYER LANDFILL SITE
TOWN OF BLOOMING GROVE, ORANGE COUNTY, NEW YORK
Site Management Plan

NYSDEC Site Number: 3-36-027

Prepared by:
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E
625 Broadway
Albany, New York 12233-7017

September 2010
Rev. No. 1 October 2010
Rev. No. 2 April 2015

TABLE OF CONTENTS

Contents

SITE MANAGEMENT PLAN

1. Introduction

A remedial program selected by the New York State Department of Environmental Conservation has been implemented for the Mayer Landfill Site (hereinafter referred to as the "Site") under the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program administered by New York State Department of Environmental Conservation (NYSDEC). The site (DEC Site No. 3-36-027) was remediated by NYSDEC in accordance with State Superfund (SSF) Program, and with the associated Record of Decision (ROD) (January 2005) and the Explanation of Significant Differences (ESD) issued September 15, 2008.

Contamination remains in the soil and groundwater at the site. This plan has been developed to ensure that the remedy remains protective and that potential exposures to the remaining contamination are effectively controlled.

1.1. Purpose of the Site Management Plan

This Site Management Plan (SMP) defines protocols for management of soil and groundwater during future activities at the Site. For the convenience of the Site owners, summaries of previous environmental investigations/remedial actions have been appended to this SMP, where appropriate. The owners should refer to the original approved investigation reports for more detail, as may be needed. Site owners and potential Site developers need to prepare and obtain appropriate approvals for all future engineering designs associated with the Site. Similarly, it is also their responsibility to comply with this SMP.

1.2. Site Description

The site is located in the town of Blooming Grove, Orange County, New York and is identified as Section 44 Block 1 Lot 63.92 on the Orange County Tax Map. The site is located on a parcel with an overall property area of approximately 104 acres, bounded by Peddler Hill Road to the north, private property to the south, private property to the east, and Prospect Road and a utility right-of-way to the west (see Figure 1).

The site was operated as a landfill beginning in 1940. Residential, commercial, industrial, demolition, and agricultural waste were reportedly disposed of at the landfill. The landfill ceased operations in April 1975 due to failure to comply with state and county regulations. Based on field investigations the landfill area where waste currently remains presently covers approximately 13 acres.

1.3. Geology/Hydrogeology

Native overburden material at the site consists of discontinuous layers of sand, silt, and clay and a highly-compacted lodgment till. The overburden varies in thickness from 14 feet to 60 feet. Bedrock beneath the till is black-gray shale with abundant calcite (calcium carbonate) veins with traces of pyrite (iron sulfide). The top few feet of the shale are highly weathered.

Groundwater sampling data from September 2007 indicate that depth to groundwater varies from 6 feet below ground surface (bgs) in MW-10 to 20 feet bgs in MW-1A south of the landfill. Shallow groundwater appears to flow radially from the center of the landfill to the north, west, and south.

Bedrock groundwater monitoring wells were typically installed as open holes in competent shale below the weathered shale zone. Depth to bedrock groundwater varies from 27 feet bgs in MW-4D on the northeast edge of the landfill to about 6.16 ft bgs in MW-7D at the north side of the site.

1.4. Site Remedial History

The landfill operation began at the site in 1940 as an open-face dump, with periodic burning of refuse. Residential, commercial, industrial, demolition, and agricultural waste were allegedly disposed of at the landfill. Part of the landfill was designated as a public dump in 1956. In 1965, after being ordered to stop burning, the operator began compacting and covering refuse. The Orange County Department of Health (OCDOH) cited the landfill for mismanagement many times in the early-1970s. Violations included inadequate compacting and covering of wastes, garbage piled too high and steep, and poor use of space. The landfill ceased operations in April 1975 due to failure to comply with state and county regulations.

In 1975, the OCDOH conducted an initial investigation of surface water at the landfill. Analytical results showed elevated levels of zinc in a wet area to the south of the landfill. The NYSDEC listed the site on the NYS Registry of Inactive Hazardous Waste Disposal Sites in 1985. Investigation conducted from 1989 through 1991 showed groundwater standards for several organic compounds were exceeded in one monitoring well.

Between 2000 and 2002, a remedial investigation (RI)/feasibility study (FS) was conducted at this site to determine the nature and extent of contamination at the site, and to evaluate remedial alternatives. Based on the results of the RI/FS, DEC issued a record of decision (ROD) in 2005 outlining clean-up plan for this site. The ROD called for a limited removal action of contaminated soil that was impacted by light non-aqueous phase liquid (LNAPL). In 2007, further subsurface and groundwater investigations were performed as part of the design activities associated with implementation of the remedy. This further work showed that the volume of LNAPL contaminated soil was significantly greater than had been estimated in the ROD. As a result, in 2008 DEC issued an Explanation of Significant Differences (ESD) that amended the remedy, and called for the removal of a greater volume of contaminated soils.

These removal actions were completed in 2009. While these actions removed significantly contaminated source material, it must be recognized that the site still contains a large volume of historically disposed waste material. The remedial program did not rely on numerical criteria (e.g., soil SCOs). Contaminants and waste remains on the site.

Additional remedial history for this site is included in Appendix A.

1.5. Anticipated Use

The remedy assumed that development of the property would be limited to commercial and industrial uses, and that use of groundwater as a source of potable or process water would be prohibited without necessary water quality treatment as determined by the NYSDOH.

1.6. Remaining Contamination

The remedial action completed in 2009 only removed a small fraction of the waste that had been disposed at the site. The landfill still contains a considerable amount of waste that covers approximately 13 acres. Based on test pitting and other field observations, the area where waste remains is as indicated on the survey included in Appendix B. The waste thickness exceeds 18 feet over most of the landfill.

Based on observations during the 2009 remedial action, remaining waste mainly includes domestic waste, construction debris such as shingles and electrical conduit, and some crushed drums or parts of drums. The 2009 removal action did not involve and was not intended to achieve any specified soil cleanup objective.

2. Site Management and Maintenance

Due to the remaining contamination there is a need for continuing site management, primarily related to excavation control requirements, to ensure that the remedy remains protective. Institutional controls provide a framework for ensuring that the site management requirements are followed.

2.1. Institutional Controls

An Environmental Easement has been filed on the site (Prospect Road, Town of Blooming Grove, County of Orange, State of New York – Orange County Tax Map Parcel number Section 44, Block 1 Lot 63.92). The Environmental Easement applies to 15.15 acres of the parcel. The 15.15 acres includes the area of the landfill (12.96 acres) and a perimeter buffer.
The Environmental Easement (included in Appendix B) contains a survey showing the area and includes a metes and bounds description of the part of the parcel that is subject to the easement.

The easement:

- Requires compliance with the approved Site Management Plan;
- Impose soil management restrictions;
- Limits the use and development of the property to commercial or industrial activities;
- Restricts the use of groundwater as a source of potable or process water without necessary water quality treatment as determined by the NYSDOH; and
- Requires the property owners to complete and submit periodic certification to the NYSDEC.

2.2. Site Use/Excavation Controls

There shall be no construction, use or occupancy of the properties comprising the Site that results in the disturbance or excavation of the property, which would result in human exposure to contaminated soils or waste, unless prior written approval by the NYSDEC is obtained. Notification of NYSDEC at the address below should precede any such work by at least 60 days, to allow time for review and any necessary revisions of a work plan.

Notification contacts are as follows:

Lawrence Thomas
NYSDEC
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7017
Phone: 518-402-9813
Email: lawrence.thomas@dec.ny.gov

The work plan shall incorporate the excavation controls and related requirements provided in Appendix C.

Maintenance of each parcel at the Site shall be the responsibility of the respective property owner(s). Vegetated cover should be maintained to reduce potential erosion of the surface soils. In order to reduce the potential for erosion, vehicular access should be also be limited. These actions are not required to protect elements of the remedy but are suggested primarily for aesthetic reasons.

Site owners shall not interfere with or take actions that reduce the effectiveness the site engineering controls (groundwater monitoring wells). In the event that property owners inadvertently damage the engineering controls or become aware of damage to any of the engineering controls, they shall promptly notify the NYSDEC contact listed above.

2.3. Periodic Reporting by Owner

Each site property owner will asked by NYSDEC to periodically certify that site use is compliant with institutional controls put in place, and that no actions have been taken that interfere with or reduce the effectiveness of the site remedy.

If excavation work was performed at the site during the reporting period, the owner of the property shall include the following along with the certification:

- A certification that work was performed in conformance with this SMP;
- Plans showing the areas and depth of fill removal;
- Copies of daily inspection reports for soil-related issues;
- Description of erosion control measures;
- A text narrative describing the excavation activities performed, health and safety monitoring performed (both Site-specific and community air monitoring), quantities and locations of soil excavated, disposal locations for the soil, soil sampling locations and results, a description of problems encountered, location of and test results for backfill sources, and other pertinent information necessary to document that the Site activities were carried out properly.

If the disturbed area exceeds one acre, the certification shall include plans showing before and after survey elevations on a 100-foot grid system to document surface topography.

Periodic certifications/reports shall be sent to:

Lawrence Thomas
NYSDEC
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7017
Phone: 518-402-9813
Email: lawrence.thomas@dec.ny.gov

3. Environmental Monitoring Program

The remedy for the site included response actions to remove to LNAPL bearing waste/soil/fill. The remedy did not require any direct response action for the groundwater. The source removal action that was completed is expected to reduce the potential for future contamination of groundwater. The remedy called for periodic monitoring of the groundwater to assess conditions.

This section describes the groundwater monitoring system for the site and includes:

- Well Locations;
- Well Installation Records;
- Sampling Procedures;
- Analytical Methods; and
- Record Keeping and Reporting.

The wells and analyses that will be used for a specific sampling event shall be selected in consultation with the NYSDEC project manager.

To provide some context for interpreting subsequent monitoring data, some past results are summarized within Appendix A.

3.1. Monitoring Well Network

Monitoring wells for this Site have been installed within the overburden and bedrock.
The following wells are present at the site:

Well Network at Mayer Landfill Site		
MW-2	MW-7	BR-3
MW-4	MW-7D	BR-5
MW-4D	MW-8	BR-6
MW-5	MW-11	BR-7
MW-6	MW-13	

A summary of the existing groundwater monitoring well completion information is provided in Appendix A. Monitoring well locations are shown on Figure 2.

Wells should be inspected periodically for the following:

- Damage to the protective casing;
- Erosion of soil in the area immediately surrounding the casing;
- Operable lock; and
- Damage to well surface seal.

3.2. Monitoring and Analytical Methods

3.2.1 Water Level Measurements

Prior to groundwater sampling, the depth to groundwater will be measured and the groundwater elevation above mean sea level will be determined. Water level measurements will be used in conjunction with horizontal and vertical ground survey data to evaluate horizontal and vertical components of groundwater flow. Water levels will be determined using a method capable of determining elevation to 0.01 feet, from the top of the measuring mark on the well riser. The date, time, well number, and depth to water will be recorded in the field logbook in indelible ink.

3.2.2. Groundwater Sampling Methods

Groundwater samples will be collected periodically from selected wells (selected in consultation with the NYSDEC from those listed in Section 3.1). Based on the available post-remedial monitoring data, a 5-year sampling frequency is currently being utilized. This frequency may be adjusted in the future by NYSDEC based on the data obtained, and on anticipated data needs.

During sampling, field parameters will be measured to evaluate geochemical characteristics of groundwater at the Site. These parameters will typically include temperature, pH, specific conductance, and turbidity. Purged water will be discharged on the ground adjacent to each well unless the purge water contains sheens or non-aqueous phase liquids, in which case it will be containerized for proper, off-site disposal.

The groundwater samples will placed directly into sample containers appropriate to the analytical method that will be used.

The order of sample collection for samples at a well will be dependent on the specific analyses selected by NYSDEC for that monitoring event. The general order of progression would be as follows:

1) Field measurements;
2) VOCs;
3) TAL Metals;
4) SVOCs and
5) Pesticides/PCBs.

Sample bottles should be pre-preserved by the laboratory as required by the pertinent analytical method. Filled bottles will be promptly placed in a cooler held at 4ºC. Disposable gloves will be worn by the sampling personnel and changed between sampling points. Sampling information will be recorded in a field logbook or by other means, such as on field sampling forms or the electronic equivalent thereof. Field records shall include purging and sampling methods, depth to water, volume of water removed during purging, and pertinent field measurements (e.g., pH, temperature, turbidity, specific conductivity values, and PID readings if available).

3.2.3. Analytical Parameters and Methods

The target analytes for a particular sampling event will be determined by NYSDEC based on the data previously obtained, and on anticipated data needs. For this site past sampling has included one or more of the following parameter suites:

Volatile organic compounds by EPA Method 8260
Semi-volatile organic compounds by EPA Method 8270
Target Analyte List metals by EPA Method 6010
Pesticides/PCBs by EPA Method 8081/8082.

Based on recent prior results, organic compounds associated with petroleum are the primary contaminants of concern found in groundwater at the site.

3.3. Quality Assurance/Quality Control

Quality control procedures will be employed to check that sampling, transportation and laboratory activities do not bias sample analytical quality. Trip blanks, field blanks, duplicate samples, matrix spike samples and matrix spike duplicates will provide a basis for validating the analytical data.

3.3.1. Trip Blanks

If VOCs are target analytes for the sampling event, trip blanks will be prepared by the laboratory by filling 40 ml vials with a Teflon-lined septum with deionized, analyte-free water. The trip blank will accompany the day's sample containers at all times. One trip blank will be returned to the laboratory with each cooler containing aqueous samples for VOC analysis. The trip blank will be analyzed for VOCs.

3.3.2. Field Blanks

A field blank consists of an empty set of laboratory-cleaned sample containers. At the field location, deionized, analyte-free water is passed through decontaminated sampling equipment and placed in the empty set of sample containers for analysis of the same parameters as the samples collected with the sampling equipment. If sampling equipment is being decontaminated in the field for re-use at the site, one field blank will be collected per sampling event.

3.3.3. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample pairs are analyzed by the laboratory to provide a quantitative measure of the laboratory's precision and accuracy. When performing aqueous volatile organic or organic extractable analysis, the laboratory must be supplied with additional sample volume for each Sample Delivery Group (SDG) in order to perform matrix spike and matrix spike duplicate analyses. The limits on an SDG are:

- Each Case for field samples, or
- Each 20 field samples within a Case, or
- Each fourteen calendar day period during which field samples in a Case are received (said period beginning with receipt of the first sample in the SDG), whichever comes first.

For each aqueous MS/MSD sample location, three times the normal sample volume is needed for organics analysis. Extra volume is not required for aqueous samples for inorganic analysis.

3.3.4 Field Duplicates

For each sample matrix, a field duplicate sample will be collected at a rate of one sample per 20 environmental samples. The duplicate sample is collected at the same location as the environmental sample. The identity of the field duplicate is not revealed to the laboratory. The analytical results of the environmental sample will be compared to the field duplicate sample, to evaluate field-sampling precision.

3.3.5 Record-Keeping

As part of chain-of-custody procedures, recorded on-site sampling information shall include sample number, date, time, sampling personnel, sample type, designation of sample as a grab or composite, and any preservative used. Sample locations should be referenced by sample number on the Site sketch or map. The offer and/or act of providing sample splits to a third party (e.g., the responsible party representative; state, county, or municipal, environmental and/or health agency, etc.) shall be documented.

3.4. Data Assessment and Reporting

For on-going monitoring, Category A deliverables are acceptable, and there is not a need to complete a detailed Data Usability Summary Report (DUSR) as described in NYSDEC DER-10 Guidelines. In the event that a decision regarding possible termination or major changes/reductions to the monitoring will be based on the monitoring event Category B deliverables should be generated for that event and formal validation of the dataset should be performed.

Monitoring results shall be reported in appropriate tabular summary form that includes a comparison to the relevant ambient water quality criteria. Key results should also be reported in graphical form on figures, such as overlaid on an aerial photo. A discussion of temporal trends should be provided where appropriate.

3.5 General Site Inspection

Site inspections will be conducted periodically, at a frequency determined by NYSDEC. NYSDEC should attempt to notify the property owner two weeks prior to field activities.

The inspection of the landfill area will assess, but not be limited to, the following:

Current site use
Condition of vegetative cover (excess erosion/unauthorized excavation, exposed waste)
Site drainage (pooling or ponding)
Condition of groundwater monitoring wells (to be inspected during sampling).

Conditions shall be documented, and should include photographs. If site conditions indicate that protectiveness of the remedy has been jeopardized, corrective measures will be undertaken.

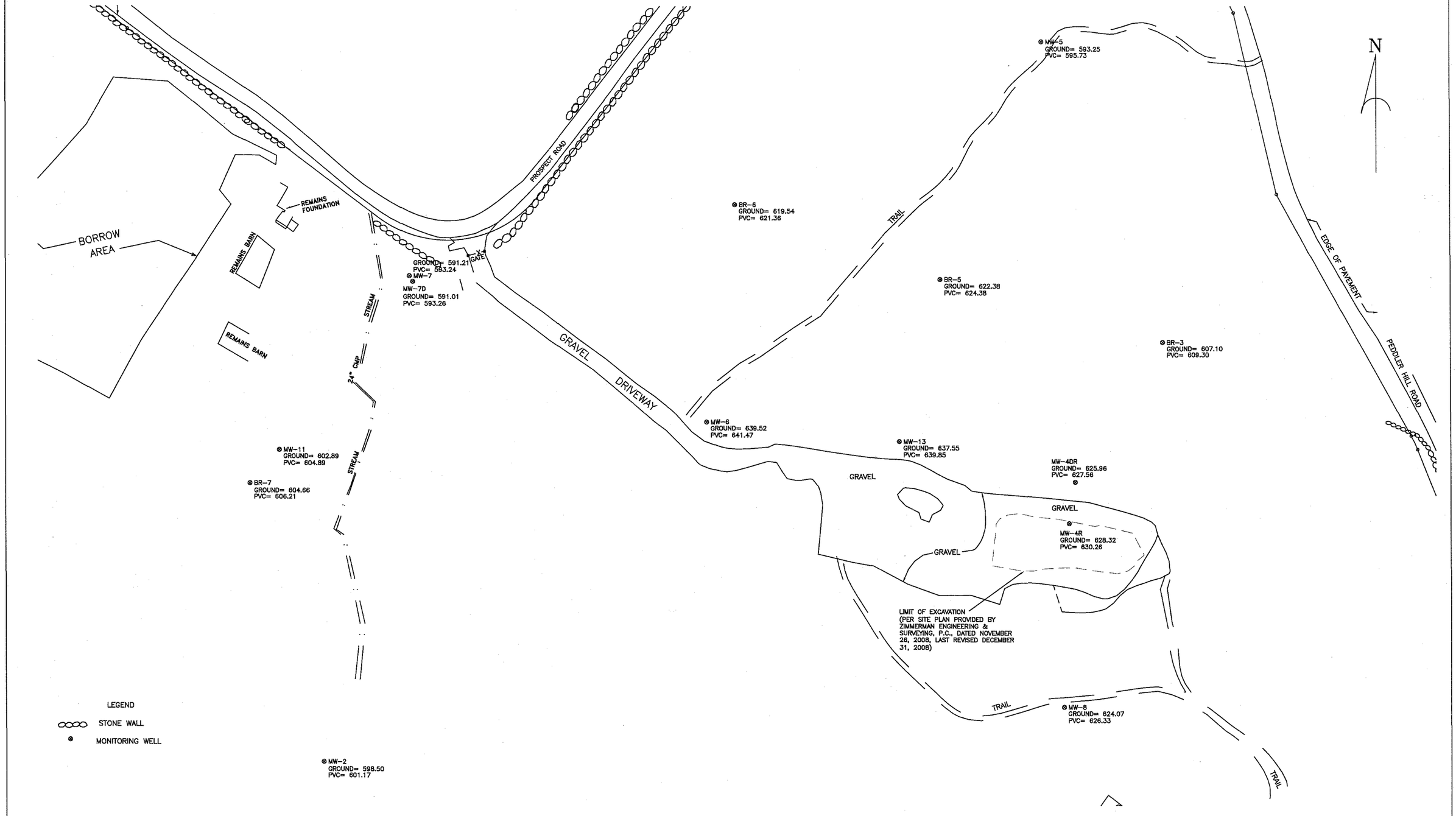
MAYER LANDFILL SITE
BLOOMING GROVE, NEW YORK

NOT TO SCALE

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

SITE LOCATION MAP

FIGURE 1-1



Dvirka and Bartilucci CONSULTING ENGINEERS
a Division of D&B Engineers and Architects, P.C.

MAYER LANDFILL SITE
BLOOMING GROVE, NEW YORK

NOT TO SCALE

SITE LAYOUT MAP

FIGURE 2-1

Appendix A – Remedial Investigations and Remedial Actions

A.1 SUMMARY OF REMEDIAL INVESTIGATIONS

A remedial investigation (RI) was performed between November 1999 and March 2001 to characterize the nature and extent of contamination at the site. A Supplemental RI was conducted in late 2001. As noted above, further site characterization work was performed in 2007. Site conditions are described in detail in the following reports:

- Environmental Resources Management. 2001. RI Report, Mayer Landfill, Blooming Grove, New York. March. Final.

- Environmental Resources Management. 2002. Supplemental RI Report, Mayer Landfill, Blooming Grove, New York. April. Final.

- Environmental Resources Management. 2002. Final FS Report, Mayer Landfill, Blooming Grove, New York. July. Final.

- NYSDEC. 2005. Record of Decision, Mayer Landfill, Blooming Grove, New York. January.

Final.

- EA. 2008. Basis of Design Report [for implementing 2005 ROD], Mayer Landfill, Blooming Grove, New York. January. Final.

- NYSDEC. 2008. Explanation of Significant Differences [remedy modification], Mayer Landfill, Blooming Grove, New York. April.
  Final.

Additional site characterization activities took place in 2007 in order to evaluate existing onsite conditions, determine the nature and extent of the contamination, verify wetland delineation near the light non-aqueous phase liquid (LNAPL) area of the landfill, and evaluate possible human exposure to the contaminants to support preparation of the Remedial Design (RD). These activities are described in the Basis of Design report prepared by EA in January 2008.

Generally, the investigations determined that volatile organic compounds (VOCs) and inorganics (metals) are the main categories of contaminants found on the site that exceed the standards, criteria, and guidance (SCGs) values. Various VOCs including benzene, xylene, and chlorobenzene were detected in the soil throughout the waste area at depths ranging from 8 to 15 ft bgs and in shallow groundwater.

Below is a summary of site conditions when the RIs were performed in 1999-2001 and 2002, as well as when additional site characterization activities were performed in 2007.

Soil

The initial RI indicated that the most prominent VOC exceedances on the site were acetone, benzene, MEK, chlorobenzene, and xylene. These constituents were found throughout the landfill area at depths ranging from ground surface to 14 ft bgs. Additional soil samples were collected by EA in the area impacted with LNAPL prior to the RD in July 2007. Additional soil samples showed similar results to the RI. During the additional site characterization, LNAPL product in the waste near monitoring wells MW-4 and MW-4D was sampled and showed higher concentrations of benzene, chlorobenzene, m&p-xylenes, and o-xylene. Ethylbenzene was detected above SCGs in the LNAPL samples.

The following table summarizes VOC concentrations in soil compared with concentrations in LNAPL:

TABLE A.1: VOCS IN SOIL AND LNAPL SAMPLES

	2001 RI Site Soil Sample Results (µg/kg)		2007 Additional Site Characterization LNAPL Sample Results (µg/kg)	
VOC Analyte	Minimum	Maximum	Minimum	Maximum
Acetone	270	1,200	non detect	non detect
Benzene	110	200	43,000	420,000
MEK	330	330	non detect	non detect
Chlorobenzene	2,200	2,200	3,500	3,500
Xylene	1,600	3,000	not sampled	not sampled
m&p-xylenes	not sampled	not sampled	200,000	890,000
o-xylene	not sampled	not sampled	70,000	360,000
Ethylbenzene	not detected	not detected	150	720

Semivolatile organic compounds (SVOCs) found onsite during the RI primarily include polycyclic aromatic hydrocarbons (PAHs), dichlorobenzenes, and phthalates. Specific exceedances include benzo(a)pyrene, bis(2-ethylhexyl) phthalate, benzo(a)anthracene, and chrysene. Product samples collected in 2007 indicated elevated levels of many SVOCs including, but not limited to, those identified during the RI.

The table below summarizes SVOC concentrations in soil compared with concentrations in LNAPL:

TABLE A.2: SVOCS IN SOIL AND LNAPL SAMPLES

	2001 RI Site Soil Sample Results (µg/kg)		2007 Additional Site Characterization LNAPL Sample Results (µg/kg)	
SVOC Analyte	Minimum	Maximum	Minimum	Maximum
Benzo(a)pyrene	130	300	460,000	1,500,000

Bis(2-ethylhexyl)phthalate	42	240,000	210,000	320,000
benzo(a)anthracene	250	460	560,000	1,900,000
Chrysene	450	450	530,000	1,600,000

Lead and mercury were the principal metals considered to be anthropogenic when compared with background sample levels for the RI. Lead was found at concentrations ranging from 27.9 mg/kg to 3,130 mg/kg throughout the landfill area. Mercury was not as prevalent as lead, though it was still considered to be a result of landfill operations. Mercury was found at concentrations ranging from 0.15 mg/kg to 1.8 mg/kg. Lead and mercury were not prevalent in soil samples collected in the LNAPL impacted area in 2007; however, they were found in test pit product samples exceeding the SCGs, along with several other metals including aluminum, calcium, chromium, and iron.

Pesticides were not detected in the soil or product samples above the SCGs during the RI or the additional site characterization in 2007. The polychlorinated biphenyl (PCB) Aroclor-1260 was only detected in one product sample.

See Appendix A Exhibits 2 and 3 for additional historic data.

Groundwater

There were two rounds of groundwater sampling during the RI and one round during the additional site characterization. Samples were not collected from MW-4 during the RI due to the presence of LNAPL; however, samples were collected from MW-4 and during the additional site characterization in 2007 despite the presence of LNAPL. In addition, water samples were collected from test pit activities, as well as residential wells.

Site groundwater samples collected during the RI contained compounds similar to those found in soil samples. Concentrations of VOCs exceeding SCGs were detected in shallow wells of the southern portion of the landfill. These contaminants include chlorobenzene, benzene, and xylene. Groundwater samples collected during the additional site characterization in 2007 contained contaminant concentrations similar to the RI samples. Elevated concentrations were detected in MW-4 due to the presence of LNAPL. Ethylbenzene was detected above the SCGs only in water containing LNAPL.

The table below summarizes site groundwater concentrations, comparing results of site monitoring wells without LNAPL, with LNAPL, and test pit water:

TABLE A.3: VOCS IN SITE GROUNDWATER

	2001 RI Site Monitoring Well Sample Results (µg/L)		2007 Additional Site Characterization MW-4 Sample Results (µg/kg)	2007 Additional Site Characterization Test Pit Water Results (µg/kg)	
VOC Analyte	Minimum	Maximum		Minimum	Maximum
Benzene	6	8	290	780	780
Chlorobenzene	29	57	3.1	44	44

Xylene	29	43	not sampled	not sampled	not sampled
m&p-xylenes	not sampled	not sampled	100	310	9,000
o-xylene	not sampled	not sampled	42	110	3,200
Ethylbenzene	not detected	not detected	100	290	2,300

Concentrations of SVOCs exceeding SCGs were detected in shallow wells in a slightly wider area of the southern portion of the landfill than VOCs. These contaminants include 4-methylphenol and 1,4-dichlorobenzene. MW-4 and test pit water samples collected during the additional site characterization in 2007 contained elevated levels of many SVOCs.

The table below summarizes site groundwater concentrations, comparing results of site monitoring wells without LNAPL, with LNAPL, and test pit water with 4-methylphenol and 1,4-dichlorobenzene concentrations only:

TABLE A.4: SVOCS IN SITE GROUNDWATER

	2001 RI Site Monitoring Well Results (µg/L)		2007 Additional Site Characterization MW-04 Results (µg/kg)	2007 Additional Site Characterization Test Pit Water Results (µg/kg)	
SVOC Analyte	Minimum	Maximum		Minimum	Maximum
4-Methylphenol	2	12	290	780	780
1,4-Dichlorobenzene	6	10	3.1	44	44

During the RI, it was found that MW-06 contained the most pesticides and the only PCBs of all of the wells, with heptachlor at 0.2 ug/L, dieldrin at 0.14 ug/L, endrin at 0.3 ug/L, and Aroclor-1260 at 2.4 ug/L. Heptachlor, dieldrin, endrin, α-BHC, and γ-BHC were also detected above the SCGs in two other wells, MW-10 and MW-12. During the additional site characterization in 2007, Aroclor-1016 was also detected in MW-04. Dieldrin, heptachlor, heptachlor epoxide, p,p'DDD, p,p'-DDE, and p,p'-DDT were detected in the matrix spike and matrix spike duplicate of MW-04, but not the regular MW-04 sample.

Many metals exceeded SCGs in the wells during both rounds of groundwater sampling for the RI; however, mercury and lead, which had been identified as the result of landfill activities, were not detected above the SCGs in any of the wells. The additional site characterization in 2007 revealed lead in only one monitoring well, MW-05 at a concentration of 320 µg/L, exceeding the SCG of 25 µg/L.

A total of 26 residential wells surrounding the Mayer Landfill were sampled as part of the RI. Although methyl tertiary butyl ether (MTBE) was detected in two of the residential wells sampled, MTBE is not considered to be an impact from the landfill operations. There were no contaminants of concern detected in the residential wells.

See Appendix A Exhibit 4 for additional historic data. Well completion records are provided in Appendix A Exhibit 1.

Soil Vapor

Site soil vapor was sampled during the RI, supplemental RI, and additional site characterization in 2007. Vapor was analyzed for methane and VOCs during the RI and supplemental RI, and VOCs only for the site characterization. There are currently no SCGs applicable for evaluating soil vapor analytical concentrations. Methane was detected in the three samples collected during the RI with concentrations ranging from 2,500 to 20,000 ppm. The highest concentration of methane and the highest concentration and greatest number of VOCs detected during the RI were in vapor sampling location SG-2, in the center of the landfill. SG-1 was located in the southern portion of the landfill and SG-3 was located in the northern portion of the landfill, within the LNAPL impacted area. VOCs were detected in all three sampling locations. Benzene, chlorobenzene, ethylbenzene, MEK, and xylenes were all detected in SG-2. Benzene and chlorobenzene were detected in the other two vapor sampling locations; however, ethylbenzene, MEK, and xylenes were not.

During the supplemental RI, six soil gas samples were collected: four to the north and northwest of SG-3, and two to the south and southeast of SG-3. None of the samples contained methane. All of the samples contained similar contaminants to those detected in SG-2 from the RI.

Ten supplementary soil vapor sampling points were installed during the additional site characterization in 2007. SV-1 was collected from just northwest of the LNAPL impacted area. SV-2 through SV-5 were collected from southeast of the landfill. SV-6 through SV-10 were collected from along Peddler Hill Road to the northeast of the site. Similar contaminants were detected in all of the vapor samples. SV-1 contained the greatest concentrations of VOCs including benzene, chlorobenzene, ethylbenzene, MEK, and xylenes. The other nine samples contained lower concentrations of similar compounds.

See Appendix A Exhibit 5 for additional historic data.

Surface Water and Sediment

Surface water and sediment samples were collected from the same locations in the wetland area, the stream that is on-site, and the pond across Prospect Road from the site during the RI. Sediment samples were collected downstream from the pond during the supplemental RI. All sediment and surface water samples collected during the RI and supplemental RI were analyzed for the full target compound list (TCL)/target analyte list (TAL) parameters and total organic carbon. Sediment samples were collected from the wetland adjacent to the landfill near MW-4 during the additional site characterization in 2007. Samples collected during the additional site characterization were analyzed for VOCs, SVOCs, TAL metals, and PCBs.

Sediment samples collected during the RI contained benzo(a)anthracene, benzo(a)pyrene, and dibenz(a,h)anthracene. Surface water contained no contaminants exceeding SCGs except for iron. It was determined during the RI that iron does not pose a risk to the public. During the supplemental RI, no contaminants were detected in concentrations exceeding the SCGs.

Sediment samples collected during the additional site characterization contained the same VOCs (benzene, ethylbenzene, and xylenes) that have been detected exceeding SCGs in other soil and water samples. SVOCs and metals detected in additional site characterization sediment samples were similar to those detected during the RI. PCBs Aroclor 1016 and 1260 were detected slightly over the SCGs in one sample.

See Appendix A Exhibits 6 and 7 for additional historic data.

Leachate

Leachate was sampled from seeps around the landfill during the RI. Samples were analyzed for TCL, VOCs, SVOCs, pesticides/PCBs, and TAL inorganics. While some VOCs and SVOCs were detected in the samples, they were not detected above the SCGs. Metals mirrored soil results from the RI.

See Appendix A Exhibit 8 for additional historic data.

A.2 SUMMARY OF REMEDIAL ACTIONS

The site was remediated in accordance with the NYSDEC-approved Remedial Design (RD) dated May 2008. The following is a summary of the Remedial Actions performed at the site.

Remedial actions began in October 2008 with mobilization to the site and site preparation. An access road was built, and the staging and stockpile areas were constructed to accommodate site activities. Remedial activities included:

1. Excavation of soil/fill containing visual impacts of LNAPL

2. Construction and maintenance of a soil cover system consisting of common fill, topsoil, and an herbaceous seed mixture to prevent human exposure to remaining contaminated soil/fill remaining at the site

3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site

4. Decommissioning of nine monitoring wells

5. Installation of four new sentinel wells and two replacement wells for long- term monitoring in conjunction with eight remaining wells

6. Development and implementation of a SMP for long-term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) institutional and engineering control, (2) monitoring, (3) maintenance and (4) reporting.

Remedial activities were completed at the site in June 2009.

Removal of Contaminated Materials from the Site

The area of the landfill to be excavated was staked out with a grid by a licensed surveyor prior to the start of excavation activities. The area was approximately 200 ft × 100 ft × 18 ft deep in the vicinity of monitoring wells MW-4 and MW-4D. Excavation activities began on 11 November 2008. The top 4-6 ft of soil within the excavation area was stripped off and stored onsite for later use as common fill. At some areas toward the south of the excavation only 2 ft of overburden were able to be saved as common fill based on visual identification of LNAPL impacted debris. Soil and debris were visually identified as impacted or non-impacted throughout excavation activities.

LNAPL impacted material was identified approximately 4-6 ft bgs. Large pockets of LNAPL impacted debris were in the excavation to a depth of approximately 18 ft bgs. LNAPL was not observed along the northern border of the excavation, so the excavation was discontinued slightly short of the planned northern excavation boundary. Vertical extents of impacted waste diminished toward the western boundary and the lens became thinner. A greater quantity of impacted material than projected was identified in the excavation, so the footprint had to be minimized to stay within the contract budget. Material that was slated to be disposed of offsite was temporarily stockpiled onsite before being transported to the approved waste facility. Approximately 7,688 tons of waste was transported off-site.

Because contamination was visually identified, no soil cleanup objectives were used during the excavation activities.

A map showing areas where excavation was performed is shown in Figure 2.

Quality of Backfill Placed in Excavated Areas

Backfill materials included granular backfill for portions of the excavation below the water table to 1 foot above the water level, onsite common fill that was taken from the ground surface portion of the excavation, offsite common fill, and topsoil. All imported backfill materials were obtained from Callahan and Nannini of Salisbury Mills, New York and were analyzed for contamination as per the USEPA SW-846.

On-Site and Off-Site Treatment Systems

No long-term treatment systems were installed as part of the site remedy.

Honorable Donna L. Benson
County Clerk
Orange County
Government Center
Goshen, NY 10924
(845) 291-3062

DATE:02/13/2013
TIME:11:56:34 AM
RECEIPT:1563195

FRONTIER ABSTRACT & RESEARCH

ITEM -01 RT MY 11:56:34 AM
FILE:2013000016785 BK/PG:D 13585/0481
DEED SEQ:003928
MAYER WILLIAM
NYS DEPT OF ENVIRONMENTAL CONSERVATION

RECORDING FEE		130.00
Deed Filing TP-584		5.00
MAP ATTACHED		10.00
Sub. Total	145.00	

ITEM -02 MISC 11:56:34 AM
FILE:2013000016786 BK/PG:D 13585/0499
NYS DEPT OF ENVIRONMENTAL CONSERVATION
MAYER WILLIAM

RECORDING FEE		75.00
Sub. Total	75.00	

AMOUNT DUE:	$220.00	
PAID CHECK:	$220.00	
Check #:3716		$160.00
FRONTIER		
Check #:3459		$60.00
FRONTIER		
TOTAL PAID:	$220.00	

REC BY:MRL
Clerk

Have a nice day!

COPY

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 14th day of December, 2012 between Owner(s) Johanna Mayer, having an address of 54 Valencia Street, Half Moon Bay, California 94019, County of San Mateo, State of California and William R. Mayer, having an address at 41 W 71st Street Apt. 1C, New York, New York 10023, County of New York, State of New York (collectively the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor is the owner of real property located at the address of Prospect Road in the Town of Blooming Grove, County of Orange and State of New York, known and designated on the tax map of the County Clerk of Orange as tax map parcel numbers: Section 44 Block 1 Lot 63.92, being the same as that property conveyed to Grantor by deed dated September 24, 1981 and recorded in the Office of the Orange County Clerk on October 9, 1981 in Liber 2206 of Deeds at Page 1081 and a portion of said real property being comprised of approximately 15.15 ± acres, and hereinafter more fully described in the Land Title Survey dated October 6, 2009 and revised October 14, 2010 and November 15, 2010 prepared by Donald R, Stedge, P.L.S., of YEC, Inc., which will be attached to the Site Management Plan. The property description (the "Controlled Property") is set forth in and attached hereto as Schedule A. The restrictions set forth herein apply solely to the Controlled Property; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of human health and the environment and to achieve the requirements for remediation

established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: A3-0598-0408, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(i) Grantor and subsequent Site owners shall ensure that the Environmental Easement remains in place and effect.

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP.

(4) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(i) Grantor shall adhere to the institutional controls required by the Environmental Easement, including the prohibition of the use of groundwater underlying the property without treatment rendering it safe for intended use and the prohibition of vegetable gardens and farming; and

(ii) The Department shall undertake periodic groundwater sampling.

(5) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(i) Grantor and subsequent Site owners shall submit a written statement certifying that the controls at the property are unchanged from the previous certification;

(ii) Grantor and subsequent Site owners shall notify the Department of changes of Site use and/or ownership; and

(iii) Grantor and subsequent Site owners shall report emergencies to the Department and other appropriate authorities.

(6) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(i) Grantor and subsequent Site owners shall ensure that any future intrusive work that will penetrate, encounter or disturb the remaining contamination, and any modifications or repairs to the existing cover system will be performed in compliance with the Excavation Plan, as defined in the SMP; and

(ii) Grantor and subsequent Site owners will ensure that site development activities will not interfere with, or otherwise impair or compromise, remedial activities proposed in the Remedial Action Work Plan, as defined in the SMP; and

(iii) Grantor and subsequent Site owners will notify the Department as least ten (10) days prior to the start of any activity that is reasonably anticipated to encounter remaining contamination.

(7) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.

(i) The Department shall prepare periodic review reports evaluating institutional and engineering controls; and

(ii) The Department shall prepare and implement a corrective measures plan, if necessary.

(8) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

(i) The Department shall decommission Site monitoring wells at an appropriate time to be determined by the Department.

(9) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes, vegetable gardens and farming, including cattle and dairy farming, or as a source of groundwater unless treated to render it safe for its intended purpose and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor assume the obligations identified in Paragraph 2.A(1), (2)(i), (4)(i), (5), (6) and (9). The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP (as identified in Paragraph 2.A.(1), (2)(i), (4)(i), (5), (6) and (9) and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall annually, or such time as NYSDEC may allow, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Controlled Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

C. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: 3-36-027
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property

Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Johanna Mayer:

By: _____

Print Name: JOHANNA M MAYER

Title: _____ Date: 8-29-12

Grantor's Acknowledgment

STATE OF CALIFORNIA)
) ss:
COUNTY OF San Mateo)

On the 29 day of August, in the year 2012, before me, the undersigned, personally appeared Johanna Mayer, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public - State of California

MARIA E. ALEGRIA
Commission # 1922498
Notary Public - California
San Mateo County
My Comm. Expires Jan 21, 2015

William R. Mayer:

By: _____

Print Name: WILLIAM R. MAYER

Title: GRANTOR Date: 8/30/12

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF New York)

On the 30th day of August, in the year 2012, before me, the undersigned, personally appeared William R. Mayer, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public - State of New York

PATRICK WALSH
Notary Public - State of New York
NO. 01WA6223808
Qualified in New York County
My Commission Expires 6/21/14

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Albany)

On the 14th day of December in the year 2017 before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

MICHAEL S. CARUSO
NOTARY PUBLIC
NO. 02CA6005245
QUALIFIED IN
SARATOGA COUNTY
COMM. EXP.
04/06/2019
STATE OF NEW YORK

SCHEDULE "A" PROPERTY DESCRIPTION

Mayer Landfill
Prospect Road
Orange County, NY
Tax Map: 44. – 1 – 63.92

ALL THAT CERTAIN PLOT, piece or parcel of land situate, lying and being in the Town of Blooming Grove, County of Orange and State of New York; being more particularly bounded and described as follows:

BEGINNING at a point located the following twelve (12) courses and distances from the intersection of southerly bounds of Prospect Road with the westerly bounds of Peddler Hill Road;

A.) Along the southerly bounds of Prospect Road, South 38°- 11'- 57" West, a distance of 1,118.41 feet to a point of curvature; thence

B.) Along the same, on a curve to the right, having a radius of 166.50 feet, an arc length of 86.37 feet to the easterly bounds of a 33 foot wide Access Road Easement; thence

C.) Along the easterly bounds of said Access Road Easement, on a curve to the left, having a radius of 15.00 feet, an arc length of 21.86 feet to a point of tangency; thence

D.) Along the same, South 15°- 34'- 00" East, a distance of 42.50 feet; thence

E.) Along the same, South 53°- 40'- 00" East, a distance of 204.41 feet; thence

F.) Along the same, South 50°- 53'- 00" East, a distance of 137.50 feet; thence

G.) Along the same, South 45°- 00'- 00" East, a distance of 67.06 feet; thence

H) Along the same, South 77°- 34'- 00" East, a distance of 26.92 feet; thence

I.) Along the same, North 73°- 45'- 00" East, a distance of 52.58 feet; thence

J.) Along the same, South 85°- 34'- 00" East, a distance of 93.77 feet; thence

K.) Along the same, South 79°- 30'- 00" East, a distance of 150.17 feet to a point on the northerly bounds of the Environmental Easement; thence

L.) Along the northerly bounds of the Environmental Easement, South 77°- 02'- 00" West, a distance of 49.95 feet to the place or point of beginning.

Running thence the following courses and distances:

1.) North 77°- 02'- 00" East, a distance of 110.11 feet; thence

2.) South 49°- 34'- 00" East, a distance of 130.28 feet; thence

3.) South 86°- 26'- 00" East, a distance of 33.70 feet; thence

4.) North 65°- 57'- 00" East, a distance of 56.45 feet; thence

5.) North 87°- 50'- 00" East, a distance of 92.15 feet; thence

6.) South 52°- 10'- 00" East, a distance of 60.60 feet to a point of curvature; thence

7.) On a curve to the right, having a radius of 71.00 feet, an arc length of 88.62 feet to a point of tangency; thence

8.) South 19°- 21'- 00" West, a distance of 241.00 feet to a point of curvature; thence

9.) On a curve to the right, having a radius of 50.00 feet, an arc length of 71.91 feet to a point of reverse curvature; thence

10.) On a curve to the left, having a radius of 80.00 feet, an arc length of 75.95 feet to a point of reverse curvature; thence

11.) On a curve to the right, having a radius of 1,520.00 feet, an arc length of 156.46 feet; thence

12.) South 36°- 44'- 29" East, a distance of 30.00 feet; thence

13.) On a curve to the right, having a radius of 1,550.00 feet, an arc length of 240.02 feet to a point of compound curvature; thence

14.) On a curve to the right, having a radius of 533.00 feet, an arc length of 161.09 feet to a point of compound curvature; thence

15.) On a curve to the right, having a radius of 848.00 feet, an arc length of 200.77 feet to a point of compound curvature; thence

16.) On a curve to the right having a radius of 250.00 feet, an arc length of 172.87 feet to a point of tangency; thence
17.) North 47°- 22'- 00" West, a distance of 83.62 feet to a point of curvature; thence
18.) On a curve to the left, having a radius of 60.00 feet, an arc length of 48.01 feet to a point of reverse curvature;
thence
19.) On a curve to the right having a radius of 91.00 feet, an arc length of 101.99 feet to a point of tangency; thence
20.) North 29°- 00'- 00" West, a distance of 40.66 feet; thence
21.) North 25°- 12'- 00" West, a distance of 33.77 feet; thence
22.) North 64°- 48'- 00" East, a distance of 30.00 feet; thence
23.) North 25°- 12'- 00" West, a distance of 103.99 feet; thence
24.) North 0°- 10'- 00" East, a distance of 45.10 feet; thence
25.) North 12°- 08'- 00" East, a distance of 73.07 feet; thence
26.) North 34°- 38'- 00" East, a distance of 119.22 feet; thence
27.) North 56°- 57'- 00" East, a distance of 75.18 feet; thence
28.) South 81°- 45'- 00" East, a distance of 60.55 feet to a point of curvature; thence
29.) On a curve to the left, having a radius of 397.00 feet, an arc length of 230.07 feet to a point of tangency; thence
30.) North 65°- 02'- 45" East, a distance of 143.79 feet; thence
31.) North 87°- 38'- 00" East, a distance of 127.68 feet; thence
32.) North 68°- 50'- 00" East, a distance of 126.72 feet to the place or point of beginning.

Containing 15.15 acres of land more or less.

33' WIDE ACCESS ROAD EASEMENT DESCRIPTION

ALL THAT CERTAIN PLOT, piece or parcel of land situate, lying and being in the Town of Blooming Grove, County of Orange and State of New York; being more particularly bounded and described as follows:

BEGINNING at a point located the following two (2) courses and distances from the intersection of southerly bounds of Prospect Road with the westerly bounds of Peddler Hill Road;

A.) Along the southerly bounds of Prospect Road, South 38°- 11'- 57" West, a distance of 1,118.41 feet to a point of
curvature; thence
B.) Along the same, on a curve to the right, having a radius of 166.50 feet, an arc length of 86.37 feet to the easterly
bounds of a 33 foot wide Access Road Easement and the place or point of beginning

Running thence the following courses and distances:

1.) Along the easterly bounds of said Access Road Easement, on a curve to the left, having a radius of 15.00 feet, an
arc length of 21.86 feet to a point of tangency; thence
2.) Along the same, South 15°- 34'- 00" East, a distance of 42.50 feet; thence
3.) Along the same, South 53°- 40'- 00" East, a distance of 204.41 feet; thence
4.) Along the same, South 50°- 53'- 00" East, a distance of 137.50 feet; thence
5.) Along the same, South 45°- 00'- 00" East, a distance of 67.06 feet; thence
6.) Along the same, South 77°- 34'- 00" East, a distance of 26.92 feet; thence
7.) Along the same, North 73°- 45'- 00" East, a distance of 52.58 feet; thence
8.) Along the same, South 85°- 34'- 00" East, a distance of 93.77 feet; thence
9.) Along the same, South 79°- 30'- 00" East, a distance of 150.17 feet to a point on the northerly bounds of the Environmental Easement; thence
10.) Along the northerly bounds of the Environmental Easement, South 77°- 02'- 00" West, a distance of 49.95
11.) Along the same, South 68°- 50'- 00" West, a distance of 24.97 feet; thence
12.) Along the westerly bounds of the Access Road Easement, North 79°- 30'- 00" East, a distance of 81.35 feet; thence
13.) Along the same, North 85°- 34'- 00" West, a distance of 86.00 feet; thence

14.) Along the same, South 73°- 45'- 00" West, a distance of 55.00 feet; thence
15.) Along the same, North 77°- 34'- 00" West, a distance of 45.00 feet; thence
16.) Along the same, North 45°- 00'- 00" West, a distance of 75.00 feet; thence
17.) Along the same, North 50°- 53'- 00" West, a distance of 135.00 feet; thence
18.) Along the same, North 53°- 40'- 00" West, a distance of 215.00 feet; thence
19.) Along the same, North 15°- 34'- 00" West, a distance of 57.75 feet to a point of curvature; thence
20.) Along the same, on a curve to the left, having a radius of 15.00 feet, an arc length of 20.02 feet to a point on the
southerly bounds of Prospect Road; thence
21.) Along the southerly bounds of Prospect Road, on a curve to the left, having a radius of 166.50 feet, an arc length
of 58.20 feet to the place or point of beginning.

Containing 25,556 square feet or 0.587 acres of land more or less.

SURVEY

NEW PROPERTY BOUNDARY DESCRIPTION

ALL THAT CERTAIN PLOT, piece or parcel of land situate, lying and being in the Town of Blooming Grove, County of Orange and State of New York; being more particularly bounded and described as follows:

BEGINNING at the intersection of southerly bounds of Prospect Road with the westerly bounds of Peddler Hill Road; running thence the following courses and distances:

1.) Along the westerly bounds of Peddler Hill Road, South 29°- 41'- 57" East, a distance of 439.38 feet; thence
2.) Along the same, South 26°-06'- 00" East, a distance of 254.16 feet; thence
3.) Along the same, South 13°- 17'- 07" East, a distance of 272.29 feet; thence
4.) Along the same, South 29°- 03'- 06" East, a distance of 404.52 feet to a point of curvature; thence
5.) Along the same, on a curve to the right having a radius of 175.00 feet, an arc length of 22.03 feet to a point of tangency; thence
6.) Along the same, South 21°- 50'- 16" East, a distance of 324.17 feet; thence
7.) Along the same, South 24°- 51'- 56" East, a distance of 29.34 feet; thence
8.) Along the westerly bounds of the lands now or formerly of Sajduk (Liber 5471 Page 67), being Lot 3 as shown on a map entitled "SUBDIVISION, LANDS OF WILLIAM R. MAYER & JOHANNA MAYER", filed in the Orange County Clerk's Office on September 22, 1983 as Map No. 6355, South 27°- 03'- 50" West, a distance of 508.90 feet; thence
9.) Along the northeasterly bounds of the lands now or formerly of Formisano (Liber 5846 Page 33) and partially along a stone wall, North 52°- 31'- 17" West, a distance of 450.65 feet; thence
10.) Along the westerly bounds of the same, South 35°- 01'- 25" West, a distance of 682.97 feet; thence
11.) Along the same, South 35°- 30'- 23" West, a distance of 629.93 feet to a point marked by an iron pipe found; thence
12.) Along the northerly bounds of the other lands now or formerly of Formisano (Liber 5511 Page 48) and partially along a stone wall, North 88°- 18'- 52" West, a distance of 759.65 feet to a point marked by a cedar fence post found at a stone wall intersection; thence
13.) Along the same, and along a stone wall, North 17°- 04'- 38" East, a distance of 270.12 feet to a point marked by an iron pipe found in a stone wall corner; thence
14.) Along the northeasterly bounds of the same, North 68°- 29'- 21" West, a distance of 638.30 feet; thence
15.) Along the easterly bounds of the lands now or formerly of Consolidated Edison Company of New York, Inc. (Liber 1945 Page 231), North 2°- 13'- 17" East, a distance of 2,086.73 feet; thence
16.) Along the southwesterly bounds of Prospect Road, South 51°- 59'- 33" East, a distance of 658.79 feet; thence
17.) Along the same, South 53°- 04'- 33" East, a distance of 459.69 feet to a point of curvature; thence
18.) Along the same, on a curve to the left having a radius of 166.50 feet, an arc length of 257.83 feet to a point of tangency; thence
19.) Along the southerly bounds of the same, North 38°- 11'- 57" East, a distance of 1,118.41 feet to the place or point of beginning.

Containing 103.848 acres of land more or less.

ENVIRONMENTAL EASEMENT DESCRIPTION

ALL THAT CERTAIN PLOT, piece or parcel of land situate, lying and being in the Town of Blooming Grove, County of Orange and State of New York; being more particularly bounded and described as follows:

BEGINNING at a point located the following twelve (12) courses and distances from the intersection of southerly bounds of Prospect Road with the westerly bounds of Peddler Hill Road;

A.) Along the southerly bounds of Prospect Road, South 38°- 11'- 57" West, a distance of 1,118.41 feet to a point of curvature; thence
B.) Along the same, on a curve to the right, having a radius of 166.50 feet, an arc length of 86.37 feet to the easterly bounds of a 33 foot wide Access Road Easement; thence
C.) Along the easterly bounds of said Access Road Easement, on a curve to the left, having a radius of 15.00 feet, an arc length of 21.86 feet to a point of tangency; thence
D.) Along the same, South 15°- 34'- 00" East, a distance of 42.50 feet; thence
E.) Along the same, South 53°- 40'- 00" East, a distance of 204.41 feet; thence
F.) Along the same, South 50°- 53'- 00" East, a distance of 137.50 feet; thence
G.) Along the same, South 45°- 00'- 00" East, a distance of 67.06 feet; thence
H) Along the same, South 77°- 34'- 00" East, a distance of 26.92 feet; thence
I.) Along the same, North 73°- 45'- 00" East, a distance of 52.58 feet; thence
J.) Along the same, South 85°- 34'- 00" East, a distance of 93.77 feet; thence
K.) Along the same, South 79°- 30'- 00" East, a distance of 150.17 feet to a point on the northerly bounds of the Environmental Easement; thence
L.) Along the northerly bounds of the Environmental Easement, South 77°- 02'- 00" West, a distance of 49.95 feet to the place or point of beginning.

Running thence the following courses and distances:

1.) North 77°- 02'- 00" East, a distance of 110.11 feet; thence
2.) South 49°- 34'- 00" East, a distance of 130.28 feet; thence
3.) South 86°- 26'- 00" East, a distance of 33.70 feet; thence
4.) North 65°- 57'- 00" East, a distance of 56.45 feet; thence
5.) North 87°- 50'- 00" East, a distance of 92.15 feet; thence
6.) South 52°- 10'- 00" East, a distance of 60.60 feet to a point of curvature; thence
7.) On a curve to the right, having a radius of 71.00 feet, an arc length of 88.62 feet to a point of tangency; thence
8.) South 19°- 21'- 00" West, a distance of 241.00 feet to a point of curvature; thence
9.) On a curve to the right, having a radius of 50.00 feet, an arc length of 71.91 feet to a point of reverse curvature; thence
10.) On a curve to the left, having a radius of 80.00 feet, an arc length of 75.95 feet to a point of reverse curvature; thence
11.) On a curve to the right, having a radius of 1,520.00 feet, an arc length of 156.46 feet; thence
12.) South 36°- 44'- 29" East, a distance of 30.00 feet; thence
13.) On a curve to the right, having a radius of 1,550.00 feet, an arc length of 240.02 feet to a point of compound curvature; thence
14.) On a curve to the right, having a radius of 533.00 feet, an arc length of 161.09 feet to a point of compound curvature; thence
15.) On a curve to the right, having a radius of 848.00 feet, an arc length of 200.77 feet to a point of compound curvature; thence
16.) On a curve to the right having a radius of 250.00 feet, an arc length of 172.87 feet to a point of tangency; thence
17.) North 47°- 22'- 00" West, a distance of 83.62 feet to a point of curvature; thence
18.) On a curve to the left, having a radius of 60.00 feet, an arc length of 48.01 feet to a point of reverse curvature; thence
19.) On a curve to the right having a radius of 91.00 feet, an arc length of 101.99 feet to a point of tangency; thence
20.) North 29°- 00'- 00" West, a distance of 40.66 feet; thence
21.) North 25°- 12'- 00" West, a distance of 33.77 feet; thence
22.) North 64°- 48'- 00" East, a distance of 30.00 feet; thence
23.) North 25°- 12'- 00" West, a distance of 103.99 feet; thence
24.) North 0°- 10'- 00" East, a distance of 45.10 feet; thence
25.) North 12°- 08'- 00" East, a distance of 73.07 feet; thence
26.) North 34°- 38'- 00" East, a distance of 119.22 feet; thence
27.) North 56°- 57'- 00" East, a distance of 75.18 feet; thence
28.) South 81°- 45'- 00" East, a distance of 60.55 feet to a point of curvature; thence
29.) On a curve to the left, having a radius of 397.00 feet, an arc length of 230.07 feet to a point of tangency; thence
30.) North 65°- 02'- 45" East, a distance of 143.79 feet; thence
31.) North 87°- 38'- 00" East, a distance of 127.68 feet; thence
32.) North 68°- 50'- 00" East, a distance of 126.72 feet to the place or point of beginning.

Containing 15.15 acres of land more or less.

33' WIDE ACCESS ROAD EASEMENT DESCRIPTION

ALL THAT CERTAIN PLOT, piece or parcel of land situate, lying and being in the Town of Blooming Grove, County of Orange and State of New York; being more particularly bounded and described as follows:

BEGINNING at a point located the following two (2) courses and distances from the intersection of southerly bounds of Prospect Road with the westerly bounds of Peddler Hill Road;

A.) Along the southerly bounds of Prospect Road, South 38°- 11'- 57" West, a distance of 1,118.41 feet to a point of curvature; thence
B.) Along the same, on a curve to the right, having a radius of 166.50 feet, an arc length of 86.37 feet to the easterly bounds of a 33 foot wide Access Road Easement and the place or point of beginning

Running thence the following courses and distances:

1.) Along the easterly bounds of said Access Road Easement, on a curve to the left, having a radius of 15.00 feet, an arc length of 21.86 feet to a point of tangency; thence
2.) Along the same, South 15°- 34'- 00" East, a distance of 42.50 feet; thence
3.) Along the same, South 53°- 40'- 00" East, a distance of 204.41 feet; thence
4.) Along the same, South 50°- 53'- 00" East, a distance of 137.50 feet; thence
5.) Along the same, South 45°- 00'- 00" East, a distance of 67.06 feet; thence
6.) Along the same, South 77°- 34'- 00" East, a distance of 26.92 feet; thence
7.) Along the same, North 73°- 45'- 00" East, a distance of 52.58 feet; thence
8.) Along the same, South 85°- 34'- 00" East, a distance of 93.77 feet; thence
9.) Along the same, South 79°- 30'- 00" East, a distance of 150.17 feet to a point on the northerly bounds of the Environmental Easement; thence
10.) Along the northerly bounds of the Environmental Easement, South 77°- 02'- 00" West, a distance of 49.95
11.) Along the same, South 68°- 50'- 00" West, a distance of 24.97 feet; thence
12.) Along the westerly bounds of the Access Road Easement, North 79°- 30'- 00" East, a distance of 81.35 feet; thence
13.) Along the same, North 85°- 34'- 00" West, a distance of 86.00 feet; thence
14.) Along the same, South 73°- 45'- 00" West, a distance of 55.00 feet; thence
15.) Along the same, North 77°- 34'- 00" West, a distance of 45.00 feet; thence
16.) Along the same, North 45°- 00'- 00" West, a distance of 75.00 feet; thence
17.) Along the same, North 50°- 53'- 00" West, a distance of 135.00 feet; thence
18.) Along the same, North 53°- 40'- 00" West, a distance of 215.00 feet; thence
19.) Along the same, North 15°- 34'- 00" West, a distance of 57.75 feet to a point of curvature; thence
20.) Along the same, on a curve to the left, having a radius of 15.00 feet, an arc length of 20.02 feet to a point on the southerly bounds of Prospect Road; thence
21.) Along the southerly bounds of Prospect Road, on a curve to the left, having a radius of 166.50 feet, an arc length of 58.20 feet to the place or point of beginning.

Containing 25,556 square feet or 0.587 acres of land more or less.

EASEMENT NOTES:

1. COVENANTS AND RESTRICTIONS CITED IN RECORD DEED FROM LIBER 663 PAGE 587, LIBER 664 PAGE 332, AND LIBER 1945 PAGE 231 DO NOT APPEAR TO BE VALID AT PRESENT.
2. UTILITY COMPANY EASEMENT IN DEED LIBER 1035 PAGE 540 DOES NOT APPEAR AFFECT CURRENT PARCEL AT THIS TIME.

REFERENCES:

1. RECORD DEED: LIBER 2206 PAGE 1081 RECORD DESCRIPTION FAILS TO MATHEMATICALLY CLOSE. RECORD DEED DESCRIPTION DOES NOT REFLECT CURRENT PROPERTY BOUNDARIES AS SEVERAL PARCELS HAVE BEEN SOLD OFF FROM ORIGINAL PROPERTY SINCE ITS RECORDING.
2. OTHERS DEEDS AS NOTED ON MAP
3. MAP ENITLED "SUBDIVISION, LANDS OF: WILLIAM R. MAYER & JOHANNA MAYER", FILED IN THE ORANGE COUNTY CLERK'S OFFICE ON SEPTEMBER 22, 1983 AS MAP NO. 6355
4. MAP ENTITLED "MINOR SUBDIVISION OF LANDS OF ROBERT J. HUNTER, JR. AND HARRIET PATTERSON HUNTER", FILED IN THE ORANGE COUNTY CLERK'S OFFICE ON JUNE 9, 1980 AS MAP NO. 5283

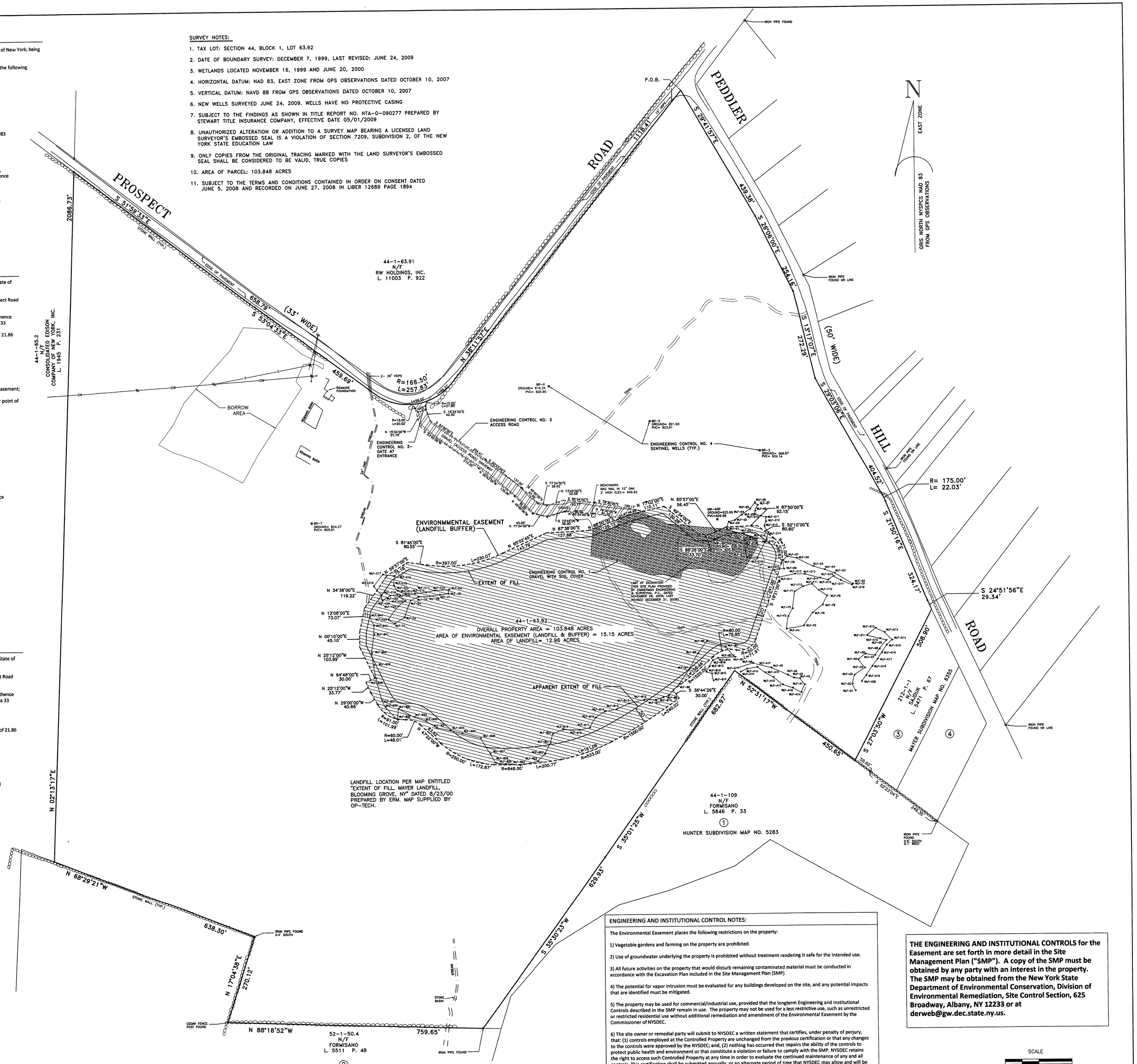
TO THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION;
STEWART TITLE INSURANCE COMPANY, WILLIAM R. MAYER AND JOHANNA MAYER:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "MINIMUM STANDARD REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS IN 2005, AND INCLUDES ITEMS 4,8,10,11(A),12,13 AND 14 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFCATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF NEW YORK, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

DONALD R. STEGER, P.L.S., NYS LIC. NO. 49759
58 EDGEWOOD DRIVE
CENTRAL VALLEY, NY 10917
(845)- 928-9360

SURVEY NOTES:

1. TAX LOT: SECTION 44, BLOCK 1, LOT 63.92
2. DATE OF BOUNDARY SURVEY: DECEMBER 7, 1999, LAST REVISED: JUNE 24, 2009
3. WETLANDS LOCATED NOVEMBER 16, 1999 AND JUNE 20, 2000
4. HORIZONTAL DATUM: NAD 83, EAST ZONE FROM GPS OBSERVATIONS DATED OCTOBER 10, 2007
5. VERTICAL DATUM: NAVD 88 FROM GPS OBSERVATIONS DATED OCTOBER 10, 2007
6. NEW WELLS SURVEYED JUNE 24, 2009. WELLS HAVE NO PROTECTIVE CASING
7. SUBJECT TO THE FINDINGS AS SHOWN IN TITLE REPORT NO. NTA-O-090277 PREPARED BY STEWART TITLE INSURANCE COMPANY, EFFECTIVE DATE 05/01/2009
8. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW
9. ONLY COPIES FROM THE ORIGINAL TRACING MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES
10. AREA OF PARCEL: 103.848 ACRES
11. SUBJECT TO THE TERMS AND CONDITIONS CONTAINED IN ORDER ON CONSENT DATED JUNE 5, 2008 AND RECORDED ON JUNE 27, 2008 IN LIBER 12689 PAGE 1894



LEGEND

STONE WALL	WF > WETLAND FLAG
OW OVERHEAD WIRE	MONITORING WELL
UTILITY POLE	EXCAVATION LIMITS
DRAINAGE PIPE	EXTENT OF FILL
EDGE OF WATER	APPARENT EXTENT OF FILL
PROPERTY CORNER	ENVIRONMENTAL EASEMENT
PROPERTY LINE	

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law.

ENGINEERING AND INSTITUTIONAL CONTROL NOTES:

The Environmental Easement places the following restrictions on the property:

1) Vegetable gardens and farming on the property are prohibited.

2) Use of groundwater underlying the property is prohibited without treatment rendering it safe for the intended use.

3) All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Excavation Plan included in the Site Management Plan (SMP).

4) The potential for vapor intrusion must be evaluated for any buildings developed on the site, and any potential impacts that are identified must be mitigated.

5) The property may be used for commercial/industrial use, provided that the longterm Engineering and Institutional Controls described in the SMP remain in use. The property may not be used for a less restrictive use, such as unrestricted or restricted residential use without additional remediation and amendment of the Environmental Easement by the Commissioner of NYSDEC.

6) The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

ENGINEERING/INSTITUTIONAL CONTROLS LEGEND

- LIMITED SOIL COVER OF CLEAN FILL AND TOPSOIL
- GATE AT SITE ENTRANCE TO PREVENT TRESPASSING
- ACCESS ROAD TO CONTROL ACCESS
- BR-6 MW-4R SENTINEL WELLS
- ENVIRONMENTAL EASEMENT

ENGINEERING CONTROLS AS DESCRIBED IN SITE MANAGEMENT PLAN PREPARED BY EA ENGINEERING, PC

THE ENGINEERING AND INSTITUTIONAL CONTROLS for the Easement are set forth in more detail in the Site Management Plan ("SMP"). A copy of the SMP must be obtained by any party with an interest in the property. The SMP may be obtained from the New York State Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at derweb@gw.dec.state.ny.us.

SCALE
100 50 0 100 FT.

REVISIONS
10/14/10 ADDED ENGINEERING CONTROLS, REVISED EASEMENT TEXT
11/15/10 MOVED AND BOXED ENGINEERING AND INSTITUTIONAL CONTROLS, REVISED AND BOXED NOTES, ADDED STREET ADDRESS

YEC, INC.
VALLEY COTTAGE NEW YORK

ALTA/ACSM LAND TITLE SURVEY
Mayer Landfill Survey
PROSPECT ROAD
TOWN OF BLOOMING GROVE
ORANGE COUNTY, NEW YORK

DATE:	SCALE:	DRAWN BY:	CHECKED BY:	JOB NO.
OCT 6, 2009	1" = 100'	MBW	DRS	A0015-10 (3)

Appendix C – Excavation Control Plan

C.1 Excavation Requirements

The site remedy allows for commercial or industrial uses. Any future intrusive work that will penetrate, encounter or disturb the remaining waste/contamination, and any modifications or repairs to the existing cover system will be performed in compliance with this Excavation Plan. Intrusive construction work must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the site. A HASP and CAMP will be submitted with the notification required below.

The site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all invasive work, the structural integrity of excavations, and for structures that may be affected by excavations (such as building foundations and bridge footings). The site owner will ensure that site development activities will not interfere with, or otherwise impair or compromise, remedial activities proposed in this Remedial Action Work Plan.

Mechanical processing of historical fill and contaminated soil onsite is prohibited. All primary contaminant sources (including but not limited to tanks and hotspots) encountered during excavation activities shall be promptly reported to DEC.

Notifications

At least 10 days prior to the start of any activity that is reasonably anticipated to encounter remaining waste/contamination, the site owner or their representative will notify the Department. Currently, this notification will be made to:

Larry Thomas, Project Manager
Division of Environmental Remediation 625 Broadway, 12th Floor
Albany, New York 12233-7017
Phone: 518-402-9813
E-mail: lawrence.thomas@dec.ny.gov

This notification will include:

A detailed description of the work to be performed, including the location and areal extent, plans for site re-grading, intrusive elements or utilities to be installed below the soil cover, or any work that may impact an engineering control

A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre- construction

sampling

A schedule for the work, detailing the start and completion of all intrusive work

A statement that the work will be performed in compliance with this EP and 29 CFR 1910.120

A copy of the contractor's health and safety plan, in electronic format

Identification of disposal facilities for potential waste streams

Identification of sources of any anticipated backfill, along with all required chemical testing results.

C.2 Soil Screening Methods

Visual, olfactory and instrument-based soil screening will be performed by a qualified environmental professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as cover soil.

C.3 Stockpile Methods

Solids stockpiles shall be constructed to isolate stored impacted material from the environment. The stockpile size shall be sized to account for anticipated water from excavation activities and the 25 year, 24-hour rainfall event. Stockpiles shall be constructed to include a minimum of:

A 40-mil high-density polyethylene liner to prevent leaching and cover for dust control.

Berms surrounding the stockpile, a minimum of 24 inches in height. Vehicle access points shall also be bermed.

The liner system shall be sloped to allow collection of leachate and contaminated stormwater. Storage and removal of liquid which collects in the stockpile shall be in accordance with Section C.6 below.

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored liner. Stockpiles will be

routinely inspected and damaged liner covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC.

C.4 Materials Excavation and Load Out

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material. Excavation shall be performed in a manner that will limit spills and the potential for impacted material to be mixed with non-impacted material. All contaminated water collected from the excavation shall be handled in accordance with Section C.6 below.

The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

A truck wash will be operated onsite. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate federal, state, local, and NYSDOT requirements (and all other applicable transportation requirements). Comply with applicable requirements of regulatory publications including, but not limited to 49 CFR 171, 49 CFR 172, 40 CFR 173, 49 CFR 174, 49 CFR 176, and 49 CFR 177.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site- derived materials.

C.4.1 Materials Transport Off-Site

All transport of materials will be performed by licensed haulers in accordance with appropriate local, state, and federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of

producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the site. Truck wash waters will be collected and disposed of offsite in an appropriate manner.

Truck transport routes will be identified that will: (a) limit transport through residential areas and past sensitive sites; (b) use city-mapped truck routes; (c) minimize off-site queuing of trucks entering the facility; (d) limit total distance to major highways; and (e) promote safety in access to highways.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site. Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed onsite in order to minimize off-site disturbance. Off- site queuing will be prohibited.

C.4.2 Materials Disposal Off-Site

All soil/fill/solid waste excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, state (including 6NYCRR Part 360), and federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e., clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts. Arrangements must be made with disposal and/or treatment facilities in advance for the receipt and acceptance of materials removed from the site.

Materials removed from the site must be properly prepared for acceptance by the disposal and/or treatment facility. Transport vehicles and/or containers will be weighed at the approved off-site disposal facility weigh scales both before and after discharging contents. All transported material delivered to the facility which is rejected by the facility will be returned to the site.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste pursuant to 6NYCRR Part 360-1.2. Material that does not meet the lower of the SCOs for residential use or groundwater protection will not be taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility) without a beneficial use determination issued by NYSDEC.

C.5.1 Materials Reuse Onsite

All materials slated for onsite reuse will be visually inspected for contamination (i.e., LNAPL staining). Once approved for reuse, materials will be stockpiled separate from the area slated to be excavated and the project stockpile pad to prevent contamination. The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for re-use on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

C.6 Fluids Management

All dewatering fluids generated on the site shall be either treated onsite, or drummed and disposed of offsite at an appropriate facility. All liquids to be removed from the site, including excavation dewatering, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Untreated dewatering fluids will not be recharged back to the land surface or subsurface of the site, but will be managed off-site. Liquids treated onsite will not be discharged until in compliance with NYSDEC – Division of Water (DOW) Effluent Limitations and Monitoring Requirements, Appendix L. Discharge of treated water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

C.7 Cover System Restoration

After the completion of soil removal and any other invasive activities the excavated area will be restored in a manner consistent with the remedial design. Topsoil shall meet the requirements of NYSDOT 713-01. Seed mixture shall be as shown below.

TABLE C.1: COVER SYSTEM SEED MIXTURE

Common Name	Percent By Weight	Percent Purity	Percent Germination
Red Fescue	15	95	85-90
Tall Fescue (K51)	50	95	85-90
Perennial Ryegrass	15	95	85-90
Crownvetch	10		
Tree Foil	10		
Total	100		

A figure showing the excavation area and the nature of the restoration shall be included in the subsequent Periodic Review Report and in any updates to the Site Management Plan (SMP).

C.7.1 Backfill from Off-Site Sources

Common fill shall comprise materials classified by ASTM D 2487 as GW, GP, GM, GP- GM, GC, GP-GC, GM-GC, SW, SP, SM, SW-SM, SC, SW-SC, SP-SM, or SP-SC. Material shall have a maximum liquid limit of 35 (not dried) as determined by ASTM D 4318, a maximum plasticity

index of 12 (not dried) as determined by ASTM D 4318, and a maximum of 25 percent passing the No. 200 sieve as determined by ASTM D 422. Material shall not contain rocks/cobbles larger than 8 in. nominal. Common fill shall not contain man-made fills, trash, refuse, frozen material, or any other deleterious materials, except material approved for reuse on-site in accordance with section 2.4.3. One sample shall be collected and analyzed for the full Target Compound List analytes per source. All materials must fit the NYSDEC Part 375 soil cleanup objectives for commercial use. A minimum of 2 feet of soil shall be used for cover over any reused material. All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP, applicable regulations (6NYCRR 375-6.7(d)) and guidance (DER-10) prior to receipt at the site.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

C.8 Stormwater Pollution Prevention

A Stormwater Pollution Prevention Plan (SWPPP) will be required for all intrusive work done on the site. At a minimum, the SWPPP shall include:

Identified potential sources of pollution which may be reasonably expected to affect the quality of storm water discharge from the site

Descriptions of practices which will be used to reduce the pollutants in storm water discharge from the site

Ensured compliance with terms of the NYS permit for storm water discharge.

The SWPPP is required to ensure the prevention of contamination of surrounding surface waters and groundwater as a result of stormwater runoff. Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Discharge of excavation groundwater to the sanitary sewer, storm drains, or to any body of water without prior specific authorization of the Environmental Programs Division in writing is prohibited. Discharge of hazardous substances will not be permitted under any circumstances. Surface water from areas of the excavation which have not been disturbed shall be prevented

from entering areas where construction or work is in progress, or contaminated areas. In the event that surface runoff is the cause of existing clean areas, or subsequently clean areas, becoming contaminated, the affected areas shall be cleaned to pre-contamination conditions. Erosion and sediment control measures identified in the SMP shall be observed weekly to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

C.9 Contingency Plan

If underground tanks or other previously unidentified contaminant sources are found during subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semivolatiles, TCL pesticides, and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the

NYSDEC spills hotline.

C.9.1 Community Air Monitoring Plan (CAMP)

A CAMP will be required for all intrusive work done on the site. The CAMP shall be created using the guidance from the DER-10 Appendix 1A, Generic CAMP. Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

C.9.2 Odor Control Plan

An Odor Control Plan will be required for all intrusive work done on the site. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Specific odor control methods will be used to address high-odor contaminants. Work will not resume until all nuisance odors have been abated.

NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles;

(b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

C.9.3 Dust Control Plan

A Dust Control Plan will be required for all intrusive work done on the site. The plan will include, at a minimum, the items listed below:

Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.

Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, un-vegetated soils vulnerable to dust production.

Gravel will be used on roadways to provide a clean and dust-free road surface.

On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

APPENDIX A Exhibit 1
MONITORING WELL BORING AND CONSTRUCTION LOGS

TABLE 3-1
MAYER LANDFILL SITE
PERIODIC REVIEW REPORT NO. 1
2011 REPORTING PERIOD
WATER LEVEL MEASUREMENT SUMMARY

WELL	GROUND SURFACE ELEVATION (ft MSL)	REFERENCE ELEVATION (ft MSL)	DATE AUGUST 2011		DATE DECEMBER 2011	
			DTW	ELEV	DTW	ELEV
MW-2	598.50	601.23	2.75	598.48	1.03	600.20
MW-4R	628.32	630.18	7.30	622.88	7.21	622.97
MW-4DR	625.96	627.08	26.34	600.74	25.38	601.70
MW-5	593.25	595.79	4.60	591.19	3.25	592.54
MW-6	639.52	641.57	8.42	633.15	7.77	633.80
MW-7	591.21	593.24	---	---	---	---
MW-7D	591.01	593.21	2.40	590.81	2.54	590.67
MW-8	624.07	626.35	10.82	615.53	10.08	616.27
MW-11	602.89	604.81	2.55	602.26	2.34	602.47
MW-13	637.55	639.79	6.62	633.17	6.26	633.53
BR-3	607.10	609.13	12.88	596.25	9.47	599.66
BR-5	622.38	623.92	50.10	573.82	51.55	572.37
BR-6	619.54	621.03	40.25	580.78	39.10	581.93
BR-7	604.66	606.01	9.18	596.83	8.30	597.71

NOTES:

ft MSL - feet above mean sea level (NAVD 88).

ft BGS - feet below ground.

DTW - depth to water in feet relative to reference elevation.

ELEV - groundwater elevation in feet above mean sea level.

--- - indicates DTW not collected due to artesian conditions

Well No. GWM-2
Project No. 570-034

Project Name Mayer Landfill

Client NYSDEC

Location Blooming Grove, Orange Co.

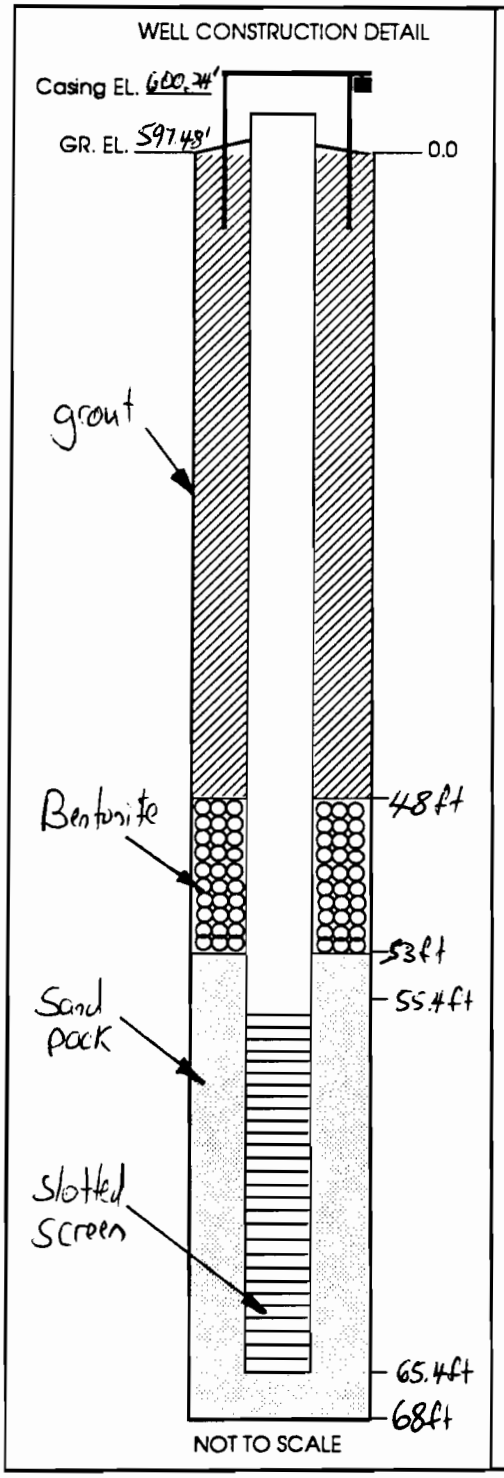
Date Drilled 1-9-90 & 1-10-90

Date Developed 1-18-90

Developing Method Surge Pump

Well Construction Completed 1-11-90

MONITORING WELL COMPLETION LOG



Inspector Mike Snodgrass
Drilling Contractor American Augers

Type of Well monitoring well
Static Water Level -0.87ft Date 1-24-90
Measuring Point (M.P.) gradelevel SWL is above grade
Total Depth of Well 65.4 ft
Total Depth of boring 68 ft

Drilling Method
Type HSA / HQ Diameter 8in / 3.8in
Casing None

Sampling Method
Type Splitspoon / HQ Diameter 2in / core(rock+till)
Weight 140lb split-spoon Fall 30in split spoon
Interval average 5ft in splitspoon, continuous for coring

Riser Pipe Left in Place
Material PVC Diameter 2in.
Length 58.1 ft Joint Type Threaded / Flush

Screen
Material PVC Diameter 2 in.
Slot Size 0.010 Length 10 ft
Stratigraphic Unit Screened Till interface + weathered bedrock

Filter Pack
Sand ✓ Gravel ____ Natural ____
Grade #2
Amount 2 bags Interval 53 - 68 ft

Seal(s)
Type Concrete (Portland) Interval 3.5 ft ± Surface
Type Portland/Bentonite grout Interval 48 ft ± 3.5 ft
Type Bentonite Interval 53 - 48 ft

Locking Casing ☑ Yes ☐ No #3252

Notes:
Bentonite seal is thick Benseal tremied into borehole @ 5ft thick
flowing artesian well!

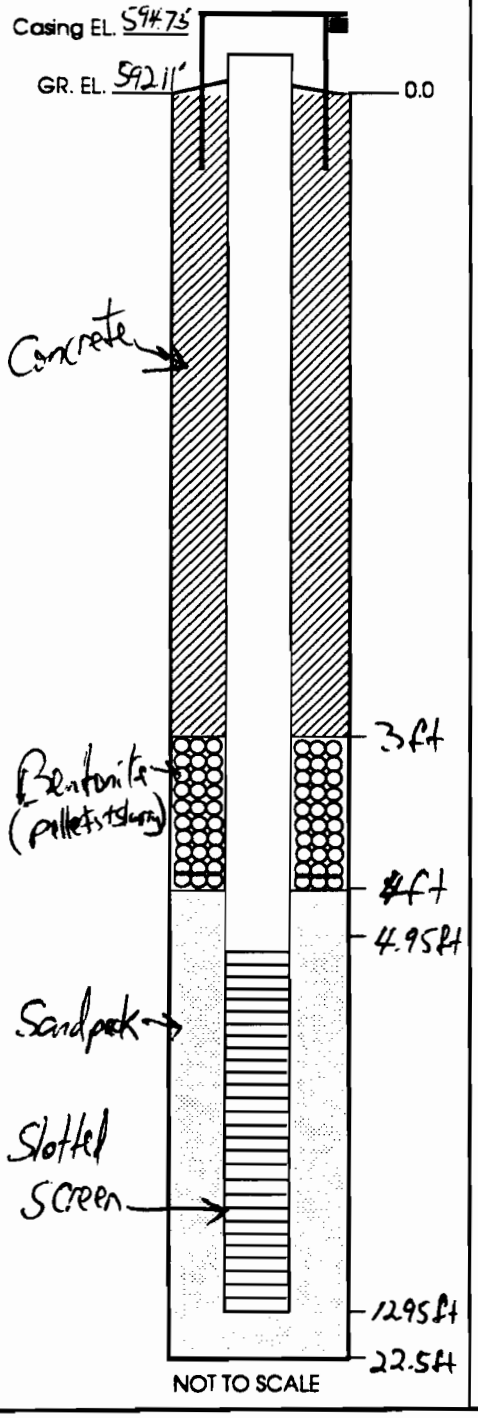
LAWLER, MATUSKY SKELLY ENGINEERS

Well No. GWML-5
Project No. 576-034

MONITORING WELL COMPLETION LOG

Project Name Mayer Landfill
Client NYSDEC
Location Blooming Grove, Orange Co.
Date Drilled 1-11-90 to 1-12-90
Date Developed 1-16/17/18/-90
Developing Method Bailing (Surge)
Well Construction Completed 1-15-90

WELL CONSTRUCTION DETAIL



Inspector Steven Miller, Mike Snodgrass
Drilling Contractor American Auger

Type of Well Monitoring well
Static Water Level 0.38 ft Date 1-25-90
Measuring Point (M.P.) ground level
Total Depth of Well 12.91 ft
Total Depth of boring 50ft grouted up to 22.25ft

Drilling Method
Type HSA / HQ Diameter 8inch / 3.8inch
Casing None

Sampling Method
Type Splitspoon/HQ Diameter 2in / core (till)
Weight 140lb Fall 30inch
Interval 5ft. splitspoon and coring continuous

Riser Pipe Left in Place
Material PVC Diameter 2inch
Length 7.53 ft Joint Type Threaded/Flush

Screen
Material PVC Diameter 2inch
Slot Size 0.010 Length 5 ft
Stratigraphic Unit Screened Till - overburden

Filter Pack
Sand ✓ Gravel ____ Natural ____
Grade #3
Amount 200lb Interval 22.5 - 4ft

Seal(s)
Type Concrete (portland) Interval 3ft to surface
Type Bentonite Interval 4ft to 3ft
Type Bentonite/portland grout Interval 50 to 22.5ft

Locking Casing ☐ No ☑ Yes Key No.: #3252
Notes:

LAWLER, MATUSKY SKELLY ENGINEERS

ERM

WELL : MW-6

175 Froehlich Farm Blvd., Woodbury, NY 11797

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum
Mayer Landfill	**72701.02.01**				
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation*
NOTHNAGLE	NEAL SHORT				638.47
Surveyor					*Top of Protective Steel Cap Elevation*
Y.E.C.		2/11/00			640.79
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation*
02/11/2000	JAKE ELDER				640.64

Generalized Soil Description	*Elevation	**Depth	CONSTRUCTION DETAILS
	640.79	640.8	STICK-UP LOCK
	640.64	640.6	
	638.47	0.0	*GROUND SURFACE*
	636.47	2.0	<---GROUT
			<---BENTONITE
	634.47	4.0	
	633.47	5.0	<-- # 00 SAND
TILL			
	631.47	7.0	
			<-- WELL SCREEN DIAMETER: 2" MATERIAL: SCHD. 40 PVC SLOT SIZE: 0.01
			<-- SAND PACK TYPE:# 0 SAND
	621.47	17.0	

BOTTOM OF BOREHOLE

REMARKS _____

* Elevation (feet) above mean sea level unless noted ** Depth in feet below grade

ERM

WELL : MW-7

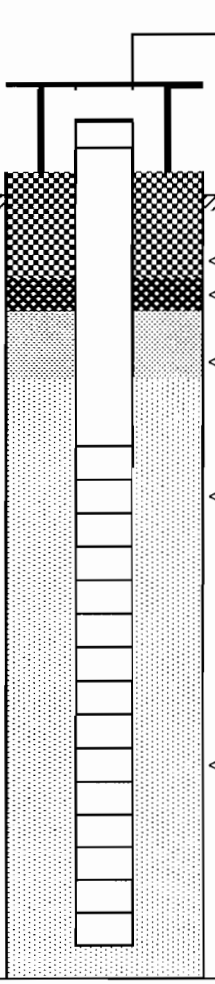
175 Froehlich Farm Blvd., Woodbury, NY 11797

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum
Mayer Landfill	**72701.02.01**				
Drilling Company	*Foreman*			Level	*Ground Elevation*
NOTHNAGLE	NEAL SHORT	Date	Time	(feet)	590.35
Surveyor					*Top of Protective Steel Cap Elevation*
Y.E.C.					592.5
Date and Time of Completion	*Geologist*	02/29/2000		0.20	*Top of Riser Pipe Elevation*
02/29/2000	JAKE ELDER				592.37

Generalized Soil Description	*Elevation	**Depth
	592.50	
	592.37	
	590.35	0.0
GREY CLAY WITH SAND AND GRAVEL	588.35	2.0
	587.35	3.0
	586.85	3.5
M-C SAND		
GREY CLAY WITH GRAVEL	585.85	4.5
M-C SAND		
GREY CLAY WITH GRAVEL		
MIXED FINE-MED COARSE SAND STIRRINGS INTERBEDDED WITH CLAY LENSES		
WEATHERED SHALE	575.85	14.5
SHALE BEDROCK		

CONSTRUCTION DETAILS



STICK-UP LOCK

GROUND SURFACE

<-- GROUT

<---BENTONITE

<-- # 00 SAND

<-- WELL SCREEN

DIAMETER: 2"

MATERIAL: SCHD. 40 PVC

SLOT SIZE: 0.01

<-- SAND PACK

TYPE:# 0 SAND

BOTTOM OF BOREHOLE

REMARKS

* Elevation (feet) above mean sea level unless noted ** Depth in feet below grade

ERM

WELL : MW-7D

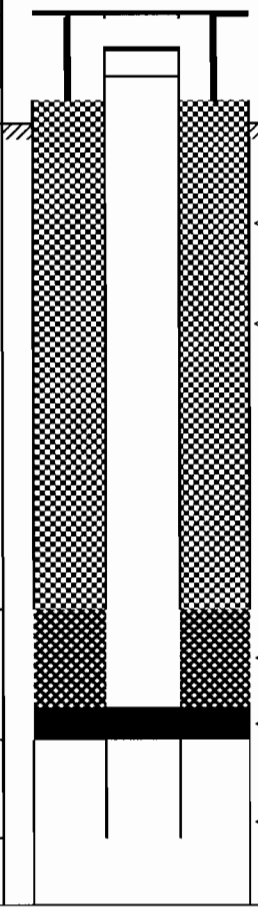
175 Froehlich Farm Blvd., Woodbury, NY 11797

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum
Mayer Landfill	**72701.02.01**				
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation*
NOTHNAGLE	NEAL SHORT				590.11
Surveyor					*Top of Protective Steel Cap Elevation*
Y.E.C.					592.39
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation*
02/29/2000	JAKE ELDER				592.33

Generalized Soil Description	*Elevation	**Depth
	592.39	
	592.33	
	590.11	0.0
GREY CLAY WITH SAND AND GRAVEL		
M-C ANGULAR SAND		
GREY CLAY WITH SAND AND GRAVEL		
	577.81	12.3
ANGULAR SAND (FIRE-COARSE) WITH CLAY		
CLAY WITH SHALE RF	575.41	14.7
SHALE BEDROCK		
	570.41	19.7
	560.61	29.5

CONSTRUCTION DETAILS



STICK-UP LOCK

GROUND SURFACE

<---GROUT

<-- WELL CASING
DIAMETER: 2"
MATERIAL: SCHD. 40 PVC

<-- BENTONITE PELLETS

<---SHALE TRAP

<---6 inch OPEN HOLE

BOTTOM OF BOREHOLE

REMARKS

* Elevation (feet) above mean sea level unless noted ** Depth in feet below grade

ERM

WELL : MW-8

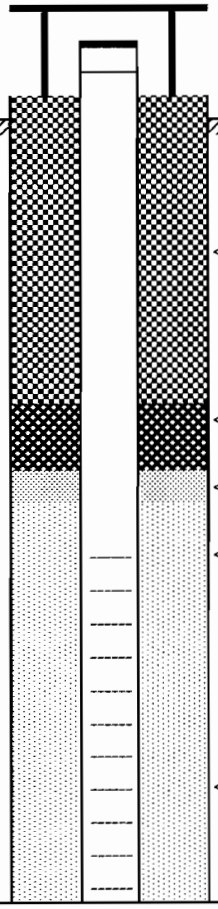
175 Froehlich Farm Blvd., Woodbury, NY 11797

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum
Mayer Landfill	**72701.02.01**				
Drilling Company	*Foreman*			Level	*Ground Elevation*
NOTHNAGLE	NEAL SHORT	Date	Time	(feet)	623.74
Surveyor					*Top of Protective Steel Cap Elevation*
Y.E.C.				DTW	625.84
Date and Time of Completion	*Geologist*			8.15	*Top of Riser Pipe Elevation*
02/17/2000	JAKE ELDER				626.00

Generalized Soil Description	*Elevation	**Depth
	625.84	
	626.00	
TILL	623.74	0.0
CLAY-SILT WITH GRAVEL AND RF CEMENT		
	617.24	6.5
	615.20	8.5
	614.24	9.5
RUBBISH PLASTIC, WOOD GLASS, SILT SAND/SOIL	612.24	11.5
	602.24	21.5

CONSTRUCTION DETAILS



STICK-UP LOCK

GROUND SURFACE

<-

<-- BENTONITE PELLETS

<-- # 00 SAND

<-- WELL SCREEN
DIAMETER: 2"
MATERIAL: SCHD. 40 PVC
SLOT SIZE: 0.01

<-- SAND PACK
TYPE:# 0 SAND

BOTTOM OF BOREHOLE

REMARKS

* Elevation (feet) above mean sea level unless noted ** Depth in feet below grade

ERM

WELL : MW-11

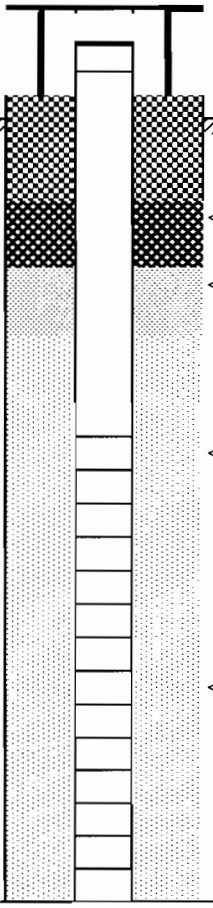
175 Froehlich Farm Blvd., Woodbury, NY 11797

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum
Mayer Landfill	**72701.02.01**				
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation*
NOTHNAGLE	NEAL SHORT				601.92
Surveyor					*Top of Protective Steel Cap Elevation*
Y.E.C.					603.93
Date and Time of Completion	*Geologist*	03/02/2000		2.65	*Top of Riser Pipe Elevation*
03/02/2000	JAKE ELDER				603.86

Generalized Soil Description	*Elevation	**Depth
	603.93	
	603.86	
	601.92	0.0
BROWN SANDY CLAY	598.42	3.5
	595.92	6.0
M-C BROWN SAND WITH GRAVEL AND SHALE RF	594.92	7.0
	592.42	9.5
BROWN M-C SAND WITH SILT, SHALE FRAGMENTS		
M-C ANGULAR SAND WITH CLAY		
WEATHERED SHALE		
SHALE BEDROCK	582.42	19.5

CONSTRUCTION DETAILS



STICK-UP LOCK

GROUND SURFACE

<-----BENTONITE

<-- #00 SAND

<-- WELL SCREEN
DIAMETER: 2"
MATERIAL: SCHD. 40 PVC
SLOT SIZE: 0.01

<-- SAND PACK
TYPE: # 0 SAND

BOTTOM OF BOREHOLE

REMARKS

* Elevation (feet) above mean sea level unless noted ** Depth in feet below grade

ERM

WELL : MW-13

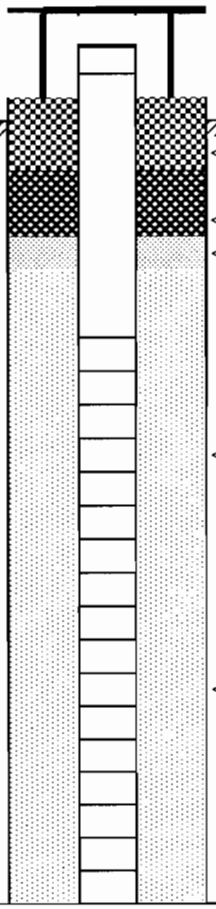
175 Froehlich Farm Blvd., Woodbury, NY 11797

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum
Mayer Landfill	**72701.02.01**				
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation*
NOTHNAGLE	NEAL SHORT				636.63
Surveyor					*Top of Protective Steel Cap Elevation*
Y.E.C.					639.05
Date and Time of Completion	*Geologist*	03/02/2000		12.79	*Top of Riser Pipe Elevation*
03/02/2000	JAKE ELDER				639.02

	*Elevation	**Depth
	639.05	
	639.02	
	636.63	0.0
	634.13	2.5
	632.63	4.0
	631.63	5.0
BROWN CLAY WITH SILT AND SAND AND GRAVEL-WET	630.63	6.0
	620.63	16.0

CONSTRUCTION DETAILS



STICK-UP LOCK

GROUND SURFACE

<-- GROUT

<-----BENTONITE

<-- #00 SAND

<-- WELL SCREEN
DIAMETER: 2"
MATERIAL: SCHD. 40 PVC
SLOT SIZE: 0.01

<-- SAND PACK
TYPE:# 0 SAND

BOTTOM OF BOREHOLE

REMARKS GREY SILT WITH SAND AND GRAVEL, VERY TIGHT.

* Elevation (feet) above mean sea level unless noted ** Depth in feet below grade

GROUNDWATER OBSERVATION WELL REPORT

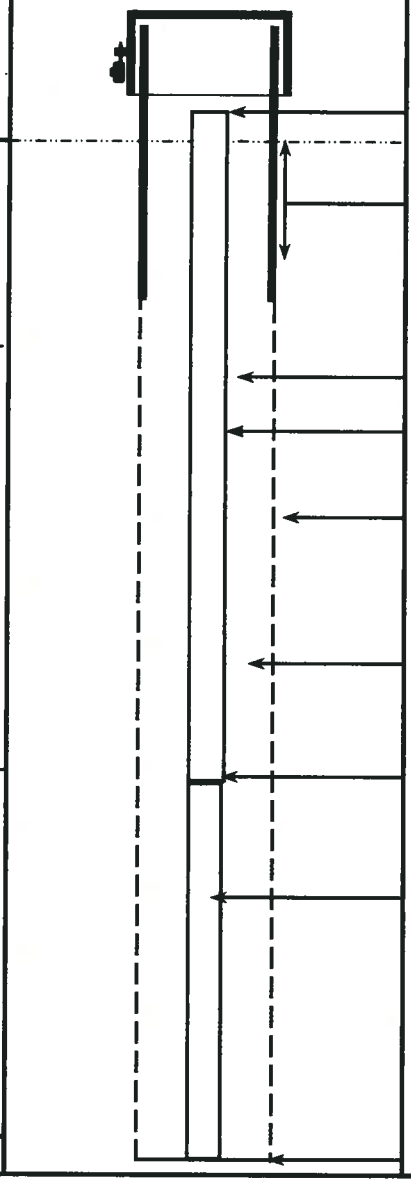
Project	Mayer Landfill			**Project No.**	26239-05		
Location	Blooming Grove, New York			**Well No.**	BR-3		
Client	OP-Tech Environmental Services, Inc.			**Boring No.**	Not Applicable		
Contractor	CME Associates, Inc.			**Location**	See Boring Location Sketch		
Driller	Al Linstruth	**Driller**	Chris Marshall	**Surface Elevation**	As Obtained By Client		
Installation Date	05/29/09 – 06/02/09			**Sheet**	1	**of**	1

Summarize Soil Conditions (not to scale)

Overburden/Fill to 15.0′

Glacial Till 15.0′ to 43.5′

Phyllite Bedrock 43.5′



Stickup above ground surface of riser pipe	30″
Thickness & Type of surface seal	Concrete from 4′ 24″ Diameter Sonotube
Type of backfill around riser	Grout
Diameter of PVC	2″
Diameter of Borehole	8″
Thickness & Type of seal	2′, Bentonite Chips
Depth of Shale Trap	43.5′
Open Bedrock Well (NQ Core, 3″ Nominal Hole Diameter)	
Depth to bottom of well	63.5′

GROUNDWATER OBSERVATION WELL REPORT

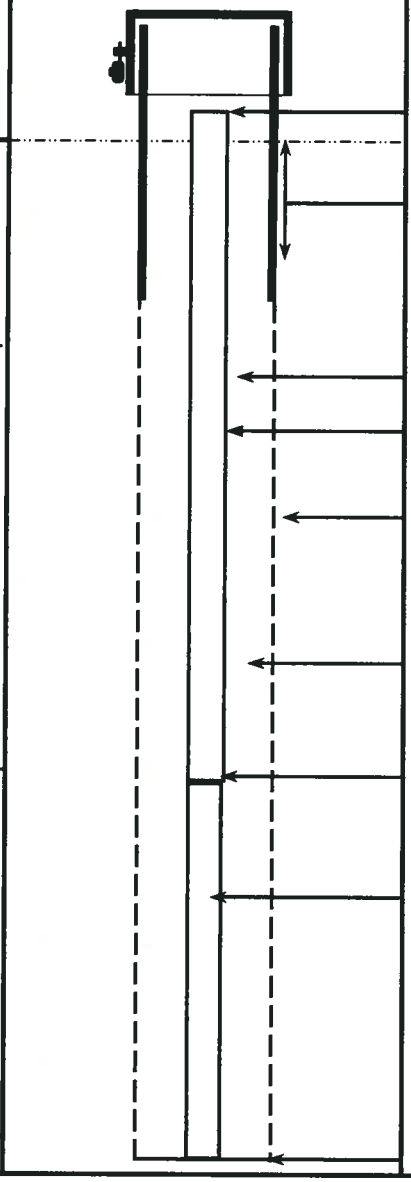
Project	Mayer Landfill			**Project No.**	26239-05		
Location	Blooming Grove, New York			**Well No.**	BR-5		
Client	OP-Tech Environmental Services, Inc.			**Boring No.**	Not Applicable		
Contractor	CME Associates, Inc.			**Location**	See Boring Location Sketch		
Driller	Al Linstruth	**Driller**	Chris Marshall	**Surface Elevation**	As Obtained By Client		
Installation Date	06/03/09 – 06/05/09			**Sheet**	1	**of**	1

Summarize Soil Conditions (not to scale)

Overburden/Fill to 13.0′

Glacial Till 13.0′ to 72.5′

Phyllite Bedrock 72.5′



Stickup above ground surface of riser pipe	30″
Thickness & Type of surface seal	Concrete from 4′ 24″ Diameter Sonotube
Type of backfill around riser	Grout
Diameter of PVC	2″
Diameter of Borehole	8″
Thickness & Type of seal	2′, Bentonite Chips
Depth of Shale Trap	72.5′
Open Bedrock Well (NQ Core, 3″ Nominal Hole Diameter)	
Depth to bottom of well	92.5′

CME Associates, Inc.

GROUNDWATER OBSERVATION WELL REPORT

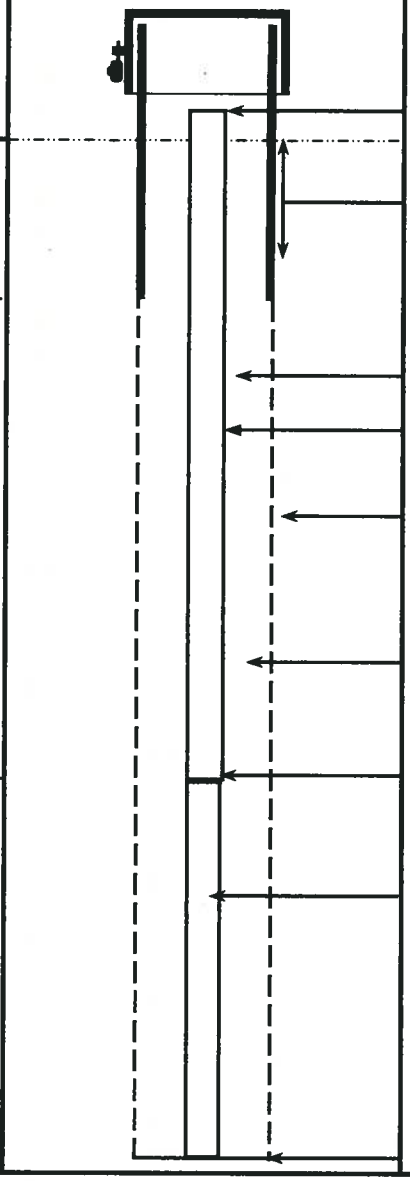
Project	Mayer Landfill			**Project No.**	26239-05
Location	Blooming Grove, New York			**Well No.**	BR-6
Client	OP-Tech Environmental Services, Inc.			**Boring No.**	Not Applicable
Contractor	CME Associates, Inc.			**Location**	See Boring Location Sketch
Driller	Al Linstruth	**Driller**	Chris Marshall	**Surface Elevation**	As Obtained By Client
Installation Date	06/08/09 – 06/11/09			**Sheet**	1 **of** 1

Summarize Soil Conditions (not to scale)

Overburden/Fill to 15.0′

Glacial Till 15.0′ to 79.0′

Phyllite Bedrock 79.0′



Stickup above ground surface of riser pipe	30″
Thickness & Type of surface seal	Concrete from 4′ 24″ Diameter Sonotube
Type of backfill around riser	Grout
Diameter of PVC	2″
Diameter of Borehole	8″
Thickness & Type of seal	2′, Bentonite Chips
Depth of Shale Trap	79.0′
Open Bedrock Well (NQ Core, 3″ Nominal Hole Diameter)	
Depth to bottom of well	99.0′

CME Associates, Inc.

GROUNDWATER OBSERVATION WELL REPORT

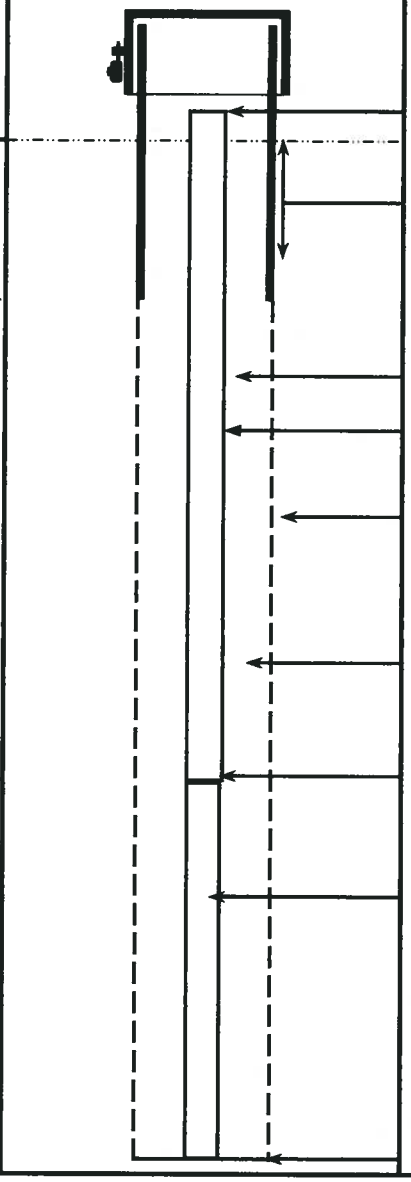
Project	Mayer Landfill			**Project No.**	26239-05		
Location	Blooming Grove, New York			**Well No.**	BR-7		
Client	OP-Tech Environmental Services, Inc.			**Boring No.**	Not Applicable		
Contractor	CME Associates, Inc.			**Location**	See Boring Location Sketch		
Driller	Al Linstruth	**Driller**	Chris Marshall	**Surface Elevation**	As Obtained By Client		
Installation Date	06/12/09 – 06/16/09			**Sheet**	1	**of**	1

Summarize Soil Conditions (not to scale)

Overburden/Fill to 15.0′

Glacial Till 15.0′ to 23.5′

Phyllite Bedrock 23.5′



Stickup above ground surface of riser pipe	30″
Thickness & Type of surface seal	Concrete from 4′ 24″ Diameter Sonotube
Type of backfill around riser	Grout
Diameter of PVC	2″
Diameter of Borehole	8″
Thickness & Type of seal	2′, Bentonite Chips
Depth of Shale Trap	23.5′
Open Bedrock Well (NQ Core, 3″ Nominal Hole Diameter)	
Depth to bottom of well	43.5′

GROUNDWATER OBSERVATION WELL REPORT

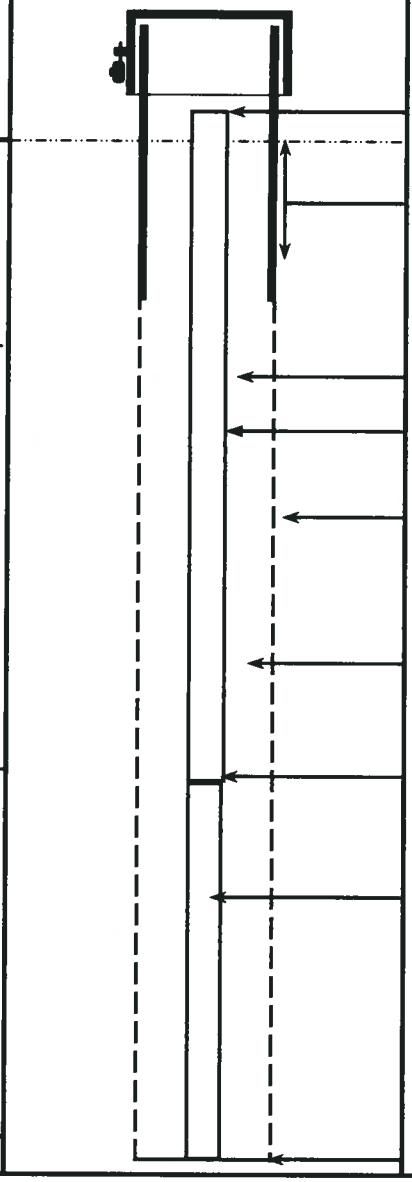
Project	Mayer Landfill			**Project No.**	26239-05
Location	Blooming Grove, New York			**Well No.**	MWD4R
Client	OP-Tech Environmental Services, Inc.			**Boring No.**	Not Applicable
Contractor	CME Associates, Inc.			**Location**	See Boring Location Sketch
Driller	Al Linstruth	**Driller**	Chris Marshall	**Surface Elevation**	As Obtained By Client
Installation Date	05/27/09 – 05/29/09			**Sheet**	1 **of** 1

Summarize Soil Conditions (not to scale)

Overburden/Fill to 15.0′

Glacial Till 15.0′ to 56.0′

Phyllite Bedrock 56.0′



Stickup above ground surface of riser pipe	30″
Thickness & Type of surface seal	Concrete from 4′ 24″ Diameter Sonotube
Type of backfill around riser	Grout
Diameter of PVC	2″
Diameter of Borehole	8″
Thickness & Type of seal	2′, Bentonite Chips
Depth of Shale Trap	56.0′
Open Bedrock Well (NQ Core, 3″ Nominal Hole Diameter)	
Depth to bottom of well	76.0′

MONITORING WELL / BORING NO. MW-4

Site Name: MAYER LANDFILL | Date Drilled: 04/28/09

Location: Blooming Grove, NY | Drilling Co.: Aztech Technologies, Inc.

Client: OPTECH | Driller: Marty Harrington

Phone No.: | Logged by: J. McCormick

Drilling Method: HSA (Dia): 4.25" | Sampling Method: Split Spoon (Dia): 2"

Drilled TD: 20 (Dia): ~8" | Sampled TD: 21' (Dia): 2"

Well TD: 20' (Dia): 2" | Well Type: Groundwater Monitoring Well

Screen Interval: (8-20)' | Slot Size: 0.010-slot | Diameter: 2"

Cased Interval: 8' | Type: PVC | Diameter: 2"

Sand Pack Interval: (7-20)' | Type: 0 | Wellhead Prot: N/A

Bentonite Seal Interval: (4-7)' | Type: hydrated chips | Grouted Interval: N/A

Aztech Technologies, Inc.

EXPERTISE YOU CAN COUNT ON

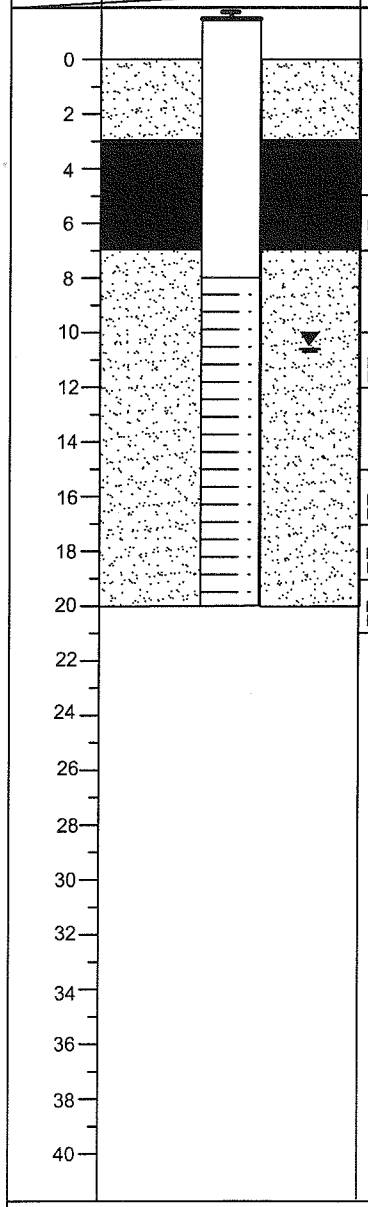
5 McCrea Hill Road
Ballston Spa
New York 12020

Phone: 518-885-5383
Fax: 518-885-5385
www.aztechtech.com

KEY:

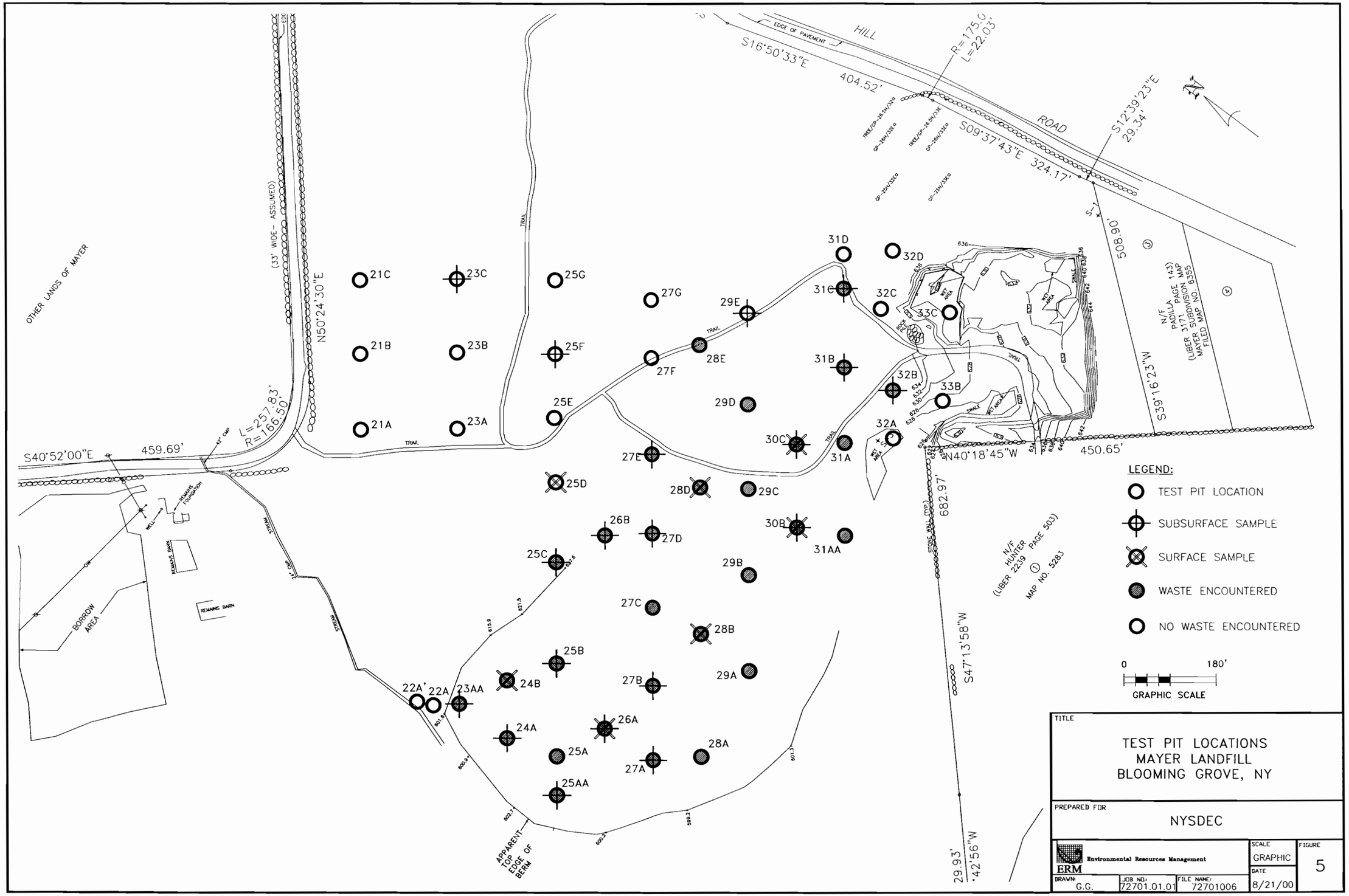
- Observed Water Table While Drilling
- 0 Sand
- Bentonite
- 10-slot Screen
- PVC Riser
- Gripper Cap
- Concrete
- WOH: Weight of Hammer
- TD: Total Depth (ft.)

LOCATION:



Depth (Feet)	Monitoring Well Construction	Sample ID / % Recovery / Blow Count	PID (ppm)	Description / Soil Classification
0–6				~(0-7)' - FILL - comprised of fine- to medium-grained sand and fine gravel; No odors or staining.
6		Sample: (5-7)' Rec: 0.5/2' (25%) Blow Ct: 24,19,9,11	0 ppm	(FILL)
8				~(7-11.5)' - CLAY, little subangular gravel; gray-green, malleable, dry to moist, slight to moderate petroleum odors and staining. 7'
10		Sample: (10-12)' Rec: 1/2' (50%) Blow Ct: 3,5,11,23	646 ppm	~(11.5-12)' - CLAY, some to little silt, little to trace subangular gravel; black, hard, moist to wet, slight to moderate petroleum odors and staining. (CLAY)
12–14				~(12-17)' - Garbage - slight to moderate petroleum odors and staining. 12'
16		Sample: (15-17)' Rec: 0/2' (0%) Blow Ct: 13,6,2,3	NA	(GARBAGE)
18		Sample: (17-19)' Rec: 1/2' (50%) Blow Ct: 3,10,25,32	19.5 ppm	~(17-21)' - CLAY, some Silt; gray-green, trace fine gravel, hard, wet, very slight petroleum odors, no staining. 17'
20		Sample: (19-21)' Rec: 1.25/2' (62.5%) Blow Ct: 10,18,21,33	19.5 ppm	@ 20' Augering terminated to set monitoring well.
22–40				@ 21' Soil sampling terminated; WOH - 140 lbs.

APPENDIX A Exhibit 2
SOIL CONTAMINATION DATA PACKAGE



TITLE

TEST PIT LOCATIONS
MAYER LANDFILL
BLOOMING GROVE, NY

PREPARED FOR

NYSDEC

ERM Environmental Resources Management			SCALE: GRAPHIC	FIGURE: 5
DRAWN: G.G.	JOB NO.: 72701.01.01	FILE NAME: 72701006	DATE: 8/21/00	

TABLE 1
Target Compound List Volatile Organics
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-23 AA 10' 62364001 11-30-99 ug/kg	SS-23C 8' 62355009 11-29-99 ug/kg	SS-24A 11' 62383002 12-01-99 ug/kg	SS-24B SURFACE 62383001 12-01-99 ug/kg	SS-25 AA 13' 62364002 11-30-99 ug/kg	SS-25 B 13.5' 62364003 11-30-99 ug/kg	SS-25 C 2.5'-3.5' 62364004 11-30-99 ug/kg	SS-25 D SURFACE 62364005 11-30-99 ug/kg	SS-25F 2' 62355007 11-29-99 ug/kg	SS-26A SURFACE 62383004 12-01-99 ug/kg
Chloromethane		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Bromomethane		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Vinyl Chloride	200	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Chloroethane	1900	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Methylene Chloride	100	64 U	11 U	96 U	12 U	6 J	67 U	4 U	2 U	11 U	12 U
Acetone	200	**330**	**2 J**	**170 S**	**1200 DB**	**130 B**	**560 B**	**12**	**6 J**	**2 J**	**2 JS**
Carbon Disulfide	2700	**14 J**	11 U	23 J	12 U	17 J	**36 J**	10 U	12 U	11 U	12 U
1,1-Dichloroethene	400	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
1,1-Dichloroethane	200	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
1,2-Dichloroethene (Total)	300	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Chloroform	300	68 U	11 U	63 U	12 U	23 U	**6 J**	10 U	12 U	11 U	12 U
1,2-Dichloroethane	100	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
2-Butanone	300	**140**	11 U	**25 J**	**5 J**	**42**	**230**	10 U	12 U	11 U	12 U
1,1,1-Trichloroethane	800	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Carbon Tetrachloride	600	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Bromodichloromethane		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
1,2-Dichloropropane		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
cis-1,3-Dichloropropene		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Trichloroethene	700	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Dibromochloromethane		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
1,1,2-Trichloroethane		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Benzene	60	**25 J**	11 U	**27 J**	**1 J**	**18 J**	**22 J**	10 U	12 U	11 U	12 UJ
trans-1,3-Dichloropropene		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Bromoform		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
4-Methyl-2-Pentanone	1000	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
2-Hexanone		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Tetrachloroethene	1400	68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
1,1,2,2-Tetrachloroethane	600	68 U	11 U	63 U	12 U	23 UJ	110 U	10 U	12 U	11 U	12 U
Toluene	1500	**79**	11 U	**94**	**2 J**	**6 J**	**50 J**	10 U	12 U	11 U	12 U
Chlorobenzene	1700	**750**	11 U	**630**	**21**	**100**	**370**	10 U	**2 J**	11 U	12 U
Ethylbenzene	550	**22 J**	11 U	**48 J**	**1 J**	**4 J**	**22 J**	10 U	**2 J**	11 U	12 U
Styrene		68 U	11 U	63 U	12 U	23 U	110 U	10 U	12 U	11 U	12 U
Xylene (Total)	1200	**2400**	11 U	**2000**	**12 J**	**130**	**920**	**1 J**	**17**	11 U	6 J

Bolded: Detected Concentration
Exceeds Criteria

TABLE 1
Target Compound List Volatile Organics
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-26A 6' 62383005 12-01-99 ug/kg	SS-26B 8' 62383011 12-01-99 ug/kg	SS-27A 15' 62355003 11-29-99 ug/kg	SS-27B 15' 62355006 11-29-99 ug/kg	SS-27D 14' 62355008 11-29-99 ug/kg	SS-27E 8-9' 62355005 11-29-99 ug/kg	SS-28B SURFACE 62383010 12-01-99 ug/kg	SS-28D SURFACE 62383009 12-01-99 ug/kg	SS-29E 9' 62355004 11-29-99 ug/kg	SS-30-B SURFACE 62383003 12-01-99 ug/kg
Chloromethane		21 U	280 U	16 U	12 U	150 U	2 J	15 U	11 U	12 U	12 U
Bromomethane		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Vinyl Chloride	200	21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Chloroethane	1900	21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Methylene Chloride	100	21 U	280 U	16 U	17 BS	150 U	16 U	15 U	11 U	12 U	12 U
Acetone	200	66 S	790 S	130	59	270	170	39 BS	11 U	22	3 JS
Carbon Disulfide	2700	21 U	82 J	4 J	3 J	16 J	5 J	15 U	11 U	12 U	12 U
1,1-Dichloroethene	400	21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
1,1-Dichloroethane	200	21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
1,2-Dichloroethene (Total)	300	21 U	280 U	16 U	12 U	150 U	2 J	15 U	11 U	12 U	12 U
Chloroform	300	21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
1,2-Dichloroethane	100	21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	2 J	12 U
2-Butanone	300	21 U	330	44	22	120 J	51	15 U	11 U	3 J	12 U
1,1,1-Trichloroethane	800	21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Carbon Tetrachloride	600	21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Bromodichloromethane		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
1,2-Dichloropropane		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
cis-1,3-Dichloropropene		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Trichloroethene	700	21 U	280 U	16 U	12 U	150 U	11 J	15 U	11 U	12 U	12 U
Dibromochloromethane		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
1,1,2-Trichloroethane		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Benzene	60	21 UJ	30 J	4 J	5 J	41 J	6 J	15 U	11 UJ	110	12 UJ
trans-1,3-Dichloropropene		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Bromoform		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
4-Methyl-2-Pentanone	1000	21 U	280 U	2 J	12 U	150 U	16 U	15 U	11 U	12 U	12 U
2-Hexanone		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Tetrachloroethene	1400	21 U	280 U	16 U	12 U	150 U	4 J	15 U	11 U	12 U	1 J
1,1,2,2-Tetrachloroethane	600	21 U	280 U	16 U	12 U	150 U	16 U	15 UJ	11 U	12 U	12 U
Toluene	1500	7 J	150 J	23	40	210	15 J	15 U	4 J	160	10 J
Chlorobenzene	1700	42	2200	15 J	140	960	140	15 U	11 U	2 J	12 U
Ethylbenzene	550	57	170 J	10 J	14	160	220	2 J	5 J	240	6 J
Styrene		21 U	280 U	16 U	12 U	150 U	16 U	15 U	11 U	12 U	12 U
Xylene (Total)	1200	160	3000	64	230	1000	1600 D	19	41	510	46

Bolded: Detected Concentration

Exceeds Criteria

TABLE 1
Target Compound List Volatile Organics
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-30B 12' 62383006 12-01-99 ug/kg	SS-30C SURFACE 62383007 12-01-99 ug/kg	SS-30C 3' 62383008 12-01-99 ug/kg	SS-31B 13' 62355001 11-29-99 ug/kg	SS-32 B 6' 62364006 11-30-99 ug/kg	SS-31C 7' 62355002 11-29-99 ug/kg	DUP112999 62355010 11-29-99 ug/kg Dup of SS-27B	FB112999 62355011 11-29-99 ug/l	TB112999 62355012 11-29-99 ug/l
Chloromethane		11 U	12 U	26 U	1 J	130 U	12 U	13 U	10 U	10 U
Bromomethane		11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 UJ	10 U
Vinyl Chloride	200	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
Chloroethane	1900	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
Methylene Chloride	100	11 U	12 U	**7 J**	14 U	**19 J**	12 U	13 U	10 U	10 U
Acetone	200	**12** U	12 U	**98 BS**	**74**	**1200 B**	**49**	**56**	10 U	10 U
Carbon Disulfide	2700	11 U	12 U	16 J	**5 J**	130 U	**2 J**	13 U	10 U	10 U
1,1-Dichloroethene	400	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
1,1-Dichloroethane	200	11 U	12 U	26 U	14 U	130 U	**3 J**	13 U	10 UJ	10 U
1,2-Dichloroethene (Total)	300	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
Chloroform	300	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	**11**
1,2-Dichloroethane	100	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
2-Butanone	300	11 U	12 U	**33**	**27**	**100 J**	**14**	**17**	10 U	10 U
1,1,1-Trichloroethane	800	11 U	12 U	26 U	14 U	130 U	**69**	13 U	10 U	10 U
Carbon Tetrachloride	600	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
Bromodichloromethane		11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
1,2-Dichloropropane		11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
cis-1,3-Dichloropropene		11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
Trichloroethene	700	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
Dibromochloromethane		11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
1,1,2-Trichloroethane		11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
Benzene	60	11 U	12 U	26 U	**200**	**16 J**	**2 J**	**2 J**	10 U	10 U
trans-1,3-Dichloropropene		11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
Bromoform		11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
4-Methyl-2-Pentanone	1000	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
2-Hexanone		11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
Tetrachloroethene	1400	11 U	12 U	26 U	14 U	130 U	12 U	13 U	10 U	10 U
1,1,2,2-Tetrachloroethane	600	11 UJ	12 UJ	26 U	14 U	130 UJ	12 U	13 U	10 U	10 U
Toluene	1500	11 U	3 J	25 UJ	**2 J**	**79 J**	**5 J**	**24**	10 U	10 U
Chlorobenzene	1700	9 J	12 U	**290**	**41**	130 U	**3 J**	**63**	10 U	10 U
Ethylbenzene	550	11 U	**2 J**	**88**	**4 J**	**20 J**	**13**	**12 J**	10 U	10 U
Styrene		11 U	12 U	26 U	**2 J**	130 U	12 U	13 U	10 U	10 U
Xylene (Total)	1200	**4 J**	**15**	**400**	**35**	**100 J**	**190**	**140**	10 U	10 U

Bolded: Detected Concentration
Exceeds Criteria

TABLE 1
Target Compound List Volatile Organics
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	FB 113099 62364007 11-30-99 ug/l	TB 113099 62364008 11-30-99 ug/l	DUP120199 62383012 12-01-99 ug/kg Dup of 26A Surface	FB120199 62383013 12-01-99 ug/l	TB120199 62383014 12-01-99 ug/l
Chloromethane		10 U	10 U	14 U	10 U	10 U
Bromomethane		10 U	10 UJ	14 U	10 U	10 U
Vinyl Chloride	200	10 U	10 U	14 U	10 U	10 U
Chloroethane	1900	10 U	10 U	14 U	10 U	10 U
Methylene Chloride	100	10 U	10 U	14 U	10 U	10 U
Acetone	200	**5 J**	**4 J**	**2 JS**	**4 J**	10 U
Carbon Disulfide	2700	10 U	10 U	14 U	10 U	10 U
1,1-Dichloroethene	400	10 U	10 U	14 U	10 U	10 U
1,1-Dichloroethane	200	10 U	10 UJ	14 U	10 U	10 U
1,2-Dichloroethene (Total)	300	10 U	10 U	14 U	10 U	10 U
Chloroform	300	10 U	**10**	14 U	10 U	**10**
1,2-Dichloroethane	100	10 U	10 U	14 U	10 U	10 U
2-Butanone	300	10 U	10 U	14 U	10 U	10 U
1,1,1-Trichloroethane	800	10 U	10 U	14 U	10 U	10 U
Carbon Tetrachloride	600	10 U	10 U	14 U	10 U	10 U
Bromodichloromethane		10 U	10 U	14 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	14 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	14 U	10 U	10 U
Trichloroethene	700	10 U	10 U	14 U	10 U	10 U
Dibromochloromethane		10 U	10 U	14 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	14 U	10 U	10 U
Benzene	60	10 U	10 U	14 UJ	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	14 U	10 U	10 U
Bromoform		10 U	10 U	14 U	10 U	10 U
4-Methyl-2-Pentanone	1000	10 U	10 U	14 U	10 U	10 U
2-Hexanone		10 U	10 U	14 U	10 U	10 U
Tetrachloroethene	1400	10 U	10 U	14 U	10 U	10 U
1,1,2,2-Tetrachloroethane	600	10 U	10 U	14 U	10 U	10 U
Toluene	1500	10 U	10 U	**3 J**	10 U	10 U
Chlorobenzene	1700	10 U	10 U	14 U	10 U	10 U
Ethylbenzene	550	10 U	10 U	14 U	10 U	10 U
Styrene		10 U	10 U	14 U	10 U	10 U
Xylene (Total)	1200	10 U	10 U	**9 J**	10 U	10 U

Bolded: Detected Concentration
Exceeds Criteria

TABLE 2
Target Compound List - Semi Volatile Organic Compounds
Mayer Landfill, Blooming, Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-23 AA 10' 62364001 11-30-99 ug/kg	SS-23C 8' 62355009 11-29-99 ug/kg	SS-24A 11' 62383002 12-01-99 ug/kg	SS-24B SURFACE 62383001 12-01-99 ug/kg	SS-25 AA 13' 62364002 11-30-99 ug/kg	SS-25 B 13.5' 62364003 11-30-99 ug/kg	SS-26B 8' 62383011 12-01-99 ug/kg	SS-25 C 2.5'-3.5' 62364004 11-30-99 ug/kg	SS-25 D SURFACE 62364005 11-30-99 ug/kg
Phenol	30	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
bis(-2-Chloroethyl)Ether		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2-Chlorophenol	800	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
1,3-Dichlorobenzene	1,600	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
1,4-Dichlorobenzene	8,500	720 J	360 U	1600	420 U	530 J	470 J	2900	380 U	77 J
1,2-Dichlorobenzene	7,900	350 J	360 U	1100 U	420 U	950 U	820 U	1200	380 U	380 U
2-Methylphenol	100	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2,2-oxybis(1-Chloropropane)		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
4-Methylphenol	900	1200 U	360 U	1100 U	420 U	140 J	170 J	600	380 U	380 U
N-Nitroso-di-n-propylamine		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Hexachloroethane		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Nitrobenzene	200	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Isophorone	4,400	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2-Nitrophenol	330	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2,4-Dimethyphenol		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2,4-Dichlorophenol		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
1,2,4-Trichlorobenzene	3,400	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Naphthalene	13,000	4700	360 U	5800	420 U	1300	3100	2100	380 U	380 U
4-Chloroaniline	220	1200 U	360 U	1100 U	420 U	950 U	150 J	540 U	380 U	380 U
bis(2-Chloroethoxy)methane		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Hexachlorobutadiene		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
4-Chloro-3-methylphenol	240	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2-Methylnaphthalene	36,400	640 J	360 U	1500	420 U	830 J	910	380 J	380 U	380 U
Hexachlorocyclopentadiene		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2,4,6-Trichlorophenol		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2,4,5-Trichlorophenol	100	2900 U	900 U	2600 U	1000 U	2400 U	2100 U	1300 U	940 U	960 U
2-Chloronaphthalene		1200 U	360 U	1100 U	420 U	950 U	160 J	540 U	380 U	380 U
2-Nitroaniline	430	2900 U	900 U	2600 U	1000 U	2400 U	2100 U	1300 U	940 U	960 U
Dimethylphthalate	2,000	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Acenaphthylene	41,000	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2,6-Dinitrotoluene	1,000	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
3-Nitroaniline	500	2900 U	900 U	2600 U	1000 U	2400 U	2100 U	1300 U	940 U	960 U
Acenaphthene	50,000	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2,4-Dinitrophenol	200	2900 U	900 U	2600 U	1000 U	2400 U	2100 U	1300 U	940 U	960 U
4-Nitrophenol	100	2900 U	900 U	2600 U	1000 U	2400 U	2100 U	1300 U	940 U	960 U

TABLE 2
Target Compound List - Semi Volatile Organic Compounds
Mayer Landfill, Blooming, Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-23 AA 10' 62364001 11-30-99 ug/kg	SS-23C 8' 62355009 11-29-99 ug/kg	SS-24A 11' 62383002 12-01-99 ug/kg	SS-24B SURFACE 62383001 12-01-99 ug/kg	SS-25 AA 13' 62364002 11-30-99 ug/kg	SS-25 B 13.5' 62364003 11-30-99 ug/kg	SS-26B 8' 62383011 12-01-99 ug/kg	SS-25 C 2.5'-3.5' 62364004 11-30-99 ug/kg	SS-25 D SURFACE 62364005 11-30-99 ug/kg
Dibenzofuran	6,200	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
2,4-Dinitrotoluene		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Diethylphthalate	7,100	1200 U	360 U	**1400**	420 U	**170 J**	**120 J**	540 U	380 U	380 U
4-Chlorophenyl-phenylether		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Fluorene	50,000	**180 J**	360 U	1100 U	420 U	**170 J**	**130 J**	540 U	380 U	380 U
4-Nitroaniline		2900 U	900 U	2600 U	1000 U	2400 U	2100 U	1300 U	940 U	960 U
4,6-Dinitro-2-methylphenol		2900 U	900 U	2600 U	1000 U	2400 U	2100 U	1300 U	940 U	960 U
N-Nitrosodiphenylamine (1)		**160 J**	360 U	1100 U	420 U	**290 J**	820 U	540 U	380 U	380 U
4-Bromophenyl-phenylether		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Hexachlorobenzene	410	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Pentachlorophenol	1,000	2900 U	900 U	2600 U	1000 U	2400 U	2100 U	1300 U	940 U	960 U
Phenanthrene	50,000	**920 J**	360 U	1100 U	420 U	**600 J**	**390 J**	540 U	380 U	380 U
Anthracene	50,000	1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Carbazole		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Di-n-butylphthalate	8,100	**250 J**	360 U	1100 U	420 U	**650 J**	**390 J**	**470 J**	380 U	380 U
Fluoranthene	50,000	**640 J**	360 U	1100 U	420 U	**210 J**	**210 J**	540 U	380 U	380 U
Pyrene	50,000	**770 J**	360 U	1100 U	420 U	**680 J**	**470 J**	540 U	380 U	380 U
Butylbenzylphthalate	50,000	**1100 J**	360 U	1100 U	420 U	**11000 D**	**770 J**	540 U	380 U	380 U
3,3-Dichlorobenzidine		1200 U	360 U	1100 U	420 U	950 U	820 U	540 U	380 U	380 U
Benzo(a)anthracene	224	**200 J**	360 U	1100 U	420 U	**130 J**	**110 J**	540 U	380 U	380 U
Chrysene	400	**240 J**	360 U	1100 U	420 U	**150 J**	**110 J**	540 U	380 U	380 U
bis(2-Ethylhexyl)phthalate	50,000	**16000 D**	**44 J**	**28000 D**	420 U	**18000 D**	**240000 D**	**3800**	**44 J**	**47 J**
Di-n-octylphthalate	50,000	1200 UJ	360 UJ	**26000 DJ**	420 U	950 U	**83 J**	540 U	380 U	380 U
Benzo(b)fluoranthene	1,100	**260 J**	360 UJ	4200 U	420 U	**120 J**	**94 J**	540 U	380 U	380 U
Benzo(k)fluoranthene	1,100	**120 J**	360 UJ	4200 U	420 UJ	950 UJ	820 UJ	540 UJ	380 UJ	380 U
Benzo(a)pyrene	61	**130 J**	360 UJ	**850 DJ**	420 U	950 UJ	820 UJ	540 U	380 U	380 U
Indeno(1,2,3-cd)pyrene	3,200	1200 UJ	360 UJ	**450 DJ**	420 U	950 UJ	820 UJ	540 U	380 U	380 U
Dibenzo(a,h)anthracene	14	1200 UJ	360 UJ	4200 U	420 U	950 UJ	820 UJ	540 U	380 U	380 U
Benzo(g,h,i)perylene	50,000	1200 UJ	360 UJ	**490 DJ**	420 U	950 UJ	820 UJ	540 U	380 U	380 U
Total PAHs		8800	0	9090	0	4190	5524	2480	0	0
Cacinogenic PAHs		950	0	1790	0	400	314	0	0	0
BaP Equivilants		177.44	0	895	0	25.15	20.51	0	0	0

Bolded: Detected Concentration
Exceeds Criteria

TABLE 2
Target Compound List - Semi Volatile Organic Compounds
Mayer Landfill, Blooming, Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-25F 2' 62355007 11-29-99 ug/kg	SS-26A SURFACE 62383004 12-01-99 ug/kg	SS-26A 6' 62383005 12-01-99 ug/kg	SS-27A 15' 62355003 11-29-99 ug/kg	SS-27B 15' 62355006 11-29-99 ug/kg	SS-27D 14' 62355008 11-29-99 ug/kg	SS-27E 8-9' 62355005 11-29-99 ug/kg	SS-28B SURFACE 62383010 12-01-99 ug/kg	SS-28D SURFACE 62383009 12-01-99 ug/kg
Phenol	30	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
bis(-2-Chloroethyl)Ether		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2-Chlorophenol	800	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
1,3-Dichlorobenzene	1,600	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
1,4-Dichlorobenzene	8,500	370 U	110 J	1200	840 J	680	270 J	300 J	490 U	420 U
1,2-Dichlorobenzene	7,900	370 U	410 U	620 U	170 J	92 J	82 J	420 U	490 U	420 U
2-Methylphenol	100	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2,2-oxybis(1-Chloropropane)		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
4-Methylphenol	900	370 U	410 U	180 J	210 J	48 J	170 J	170 J	490 U	420 U
N-Nitroso-di-n-propylamine		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Hexachloroethane		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Nitrobenzene	200	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Isophorone	4,400	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2-Nitrophenol	330	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2,4-Dimethyphenol		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2,4-Dichlorophenol		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
1,2,4-Trichlorobenzene	3,400	370 U	410 U	310 J	1000 U	400 U	610 U	420 U	490 U	420 U
Naphthalene	13,000	370 U	70 J	270 J	1700	1600	360 J	620	490 U	420 U
4-Chloroaniline	220	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
bis(2-Chloroethoxy)methane		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Hexachlorobutadiene		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
4-Chloro-3-methylphenol	240	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2-Methylnaphthalene	36,400	370 U	410 U	190 J	650 J	2200	140 J	160 J	490 U	420 U
Hexachlorocyclopentadiene		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2,4,6-Trichlorophenol		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2,4,5-Trichlorophenol	100	930 U	1000 U	1500 U	2600 U	1000 U	1500 U	1100 U	1200 U	1000 U
2-Chloronaphthalene		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2-Nitroaniline	430	930 U	1000 U	1500 U	2600 U	1000 U	1500 U	1100 U	1200 U	1000 U
Dimethylphthalate	2,000	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Acenaphthylene	41,000	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
2,6-Dinitrotoluene	1,000	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
3-Nitroaniline	500	930 U	1000 U	1500 U	2600 U	1000 U	1500 U	1100 U	1200 U	1000 U
Acenaphthene	50,000	370 U	410 U	620 U	1000 U	170 J	610 U	420 U	490 U	420 U
2,4-Dinitrophenol	200	930 U	1000 U	1500 U	2600 U	1000 U	1500 U	1100 U	1200 U	1000 U
4-Nitrophenol	100	930 U	1000 U	1500 U	2600 U	1000 U	1500 U	1100 U	1200 U	1000 U

TABLE 2
Target Compound List - Semi Volatile Organic Compounds
Mayer Landfill, Blooming, Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-25F 2' 62355007 11-29-99 ug/kg	SS-26A SURFACE 62383004 12-01-99 ug/kg	SS-26A 6' 62383005 12-01-99 ug/kg	SS-27A 15' 62355003 11-29-99 ug/kg	SS-27B 15' 62355006 11-29-99 ug/kg	SS-27D 14' 62355008 11-29-99 ug/kg	SS-27E 8-9' 62355005 11-29-99 ug/kg	SS-28B SURFACE 62383010 12-01-99 ug/kg	SS-28D SURFACE 62383009 12-01-99 ug/kg
Dibenzofuran	6,200	370 U	410 U	620 U	1000 U	**68 J**	610 U	420 U	490 U	420 U
2,4-Dinitrotoluene		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Diethylphthalate	7,100	370 U	410 U	**84 J**	1000 U	**76 J**	610 U	420 U	490 U	420 U
4-Chlorophenyl-phenylether		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Fluorene	50,000	370 U	410 U	620 U	1000 U	**280 J**	610 U	420 U	490 U	420 U
4-Nitroaniline		930 U	1000 U	1500 U	2600 U	1000 U	1500 U	1100 U	1200 U	1000 U
4,6-Dinitro-2-methylphenol		930 U	1000 U	1500 U	2600 U	1000 U	1500 U	1100 U	1200 U	1000 U
N-Nitrosodiphenylamine (1)		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
4-Bromophenyl-phenylether		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Hexachlorobenzene	410	370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Pentachlorophenol	1,000	930 U	1000 U	1500 U	2600 U	1000 U	1500 U	1100 U	1200 U	1000 U
Phenanthrene	50,000	370 U	410 U	**92 J**	**180 J**	**830**	610 U	**170 J**	490 U	**120 J**
Anthracene	50,000	370 U	410 U	620 U	1000 U	**120 J**	610 U	420 U	490 U	420 U
Carbazole		370 U	410 U	620 U	1000 U	400 U	610 U	420 U	490 U	420 U
Di-n-butylphthalate	8,100	370 U	410 U	**110 J**	**5800**	**270 J**	610 U	**630**	490 U	420 U
Fluoranthene	50,000	370 U	410 U	620 U	1000 U	**170 J**	610 U	**160 J**	**88 J**	**140 J**
Pyrene	50,000	370 U	410 U	620 U	**200 J**	**1000 J**	610 U	**250 J**	**79 J**	**110 J**
Butylbenzylphthalate	50,000	370 U	410 U	130 J	**1300 J**	**930 J**	610 U	**990 J**	490 U	420 U
3,3-Dichlorobenzidine		370 U	410 U	620 U	1000 UJ	4000 U	610 U	420 UJ	490 U	420 U
Benzo(a)anthracene	224	370 U	410 U	620 U	1000 UJ	4000 U	610 U	**58 J**	490 U	**47 J**
Chrysene	400	370 U	410 U	620 U	1000 UJ	**220 J**	610 U	**63 J**	490 U	**53 J**
bis(2-Ethylhexyl)phthalate	50,000	**42 J**	410 U	**7100 D**	**6000 DJ**	**16000 D**	**1900**	**5500 D**	490 U	420 U
Di-n-octylphthalate	50,000	370 U	410 U	620 U	1000 UJ	**2900 J**	610 U	**290 J**	490 U	420 U
Benzo(b)fluoranthene	1,100	370 U	410 U	620 U	1000 UJ	**150 J**	610 U	420 UJ	**58 J**	420 U
Benzo(k)fluoranthene	1,100	370 U	410 UJ	620 UJ	1000 UJ	**62 J**	610 U	420 UJ	490 UJ	420 UJ
Benzo(a)pyrene	61	370 U	410 U	620 U	1000 UJ	**160 J**	610 U	420 UJ	490 U	420 U
Indeno(1,2,3-cd)pyrene	3,200	370 U	410 U	620 U	1000 UJ	**86 J**	610 U	420 UJ	490 U	420 U
Dibenzo(a,h)anthracene	14	370 U	410 U	620 U	1000 UJ	4000 U	610 U	420 UJ	490 U	420 U
Benzo(g,h,i)perylene	50,000	370 U	410 U	620 U	1000 UJ	**130 J**	610 U	420 UJ	490 U	420 U
Total PAHs		0	70	552	1030	7246	500	1481	225	470
Cacinogenic PAHs		0	0	0	0	808	0	121	58	100
BaP Equivilants		0	0	0	0	184.44	0	5.863	5.8	4.753

Bolded: Detected Concentration
Exceeds Criteria

TABLE 2
Target Compound List - Semi Volatile Organic Compounds
Mayer Landfill, Blooming, Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-29E 9' 62355004 11-29-99 ug/kg	SS-30-B SURFACE 62383003 12-01-99 ug/kg	SS-30B 12' 62383006 12-01-99 ug/kg	SS-30C SURFACE 62383007 12-01-99 ug/kg	SS-30C 3' 62383008 12-01-99 ug/kg	SS-31B 13' 62355001 11-29-99 ug/kg	SS-31C 7' 62355002 11-29-99 ug/kg	SS-32 B 6' 62364006 11-30-99 ug/kg	DUP112999 62355010 11-29-99 ug/kg Dup of SS-27B
Phenol	30	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
bis(-2-Chloroethyl)Ether		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2-Chlorophenol	800	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
1,3-Dichlorobenzene	1,600	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
1,4-Dichlorobenzene	8,500	380 U	420 U	380 U	410 U	**670**	**180 J**	**65 J**	**200 J**	**1200**
1,2-Dichlorobenzene	7,900	380 U	420 U	380 U	410 U	**120 J**	190 J	440 U	710 U	150 J
2-Methylphenol	100	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2,2-oxybis(1-Chloropropane)		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
4-Methylphenol	900	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
N-Nitroso-di-n-propylamine		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Hexachloroethane		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Nitrobenzene	200	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Isophorone	4,400	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2-Nitrophenol	330	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2,4-Dimethyphenol		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2,4-Dichlorophenol		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
1,2,4-Trichlorobenzene	3,400	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	42 J
Naphthalene	13,000	**2600**	420 U	380 U	410 U	**770**	**1400**	**49 J**	**200 J**	970
4-Chloroaniline	220	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
bis(2-Chloroethoxy)methane		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Hexachlorobutadiene		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
4-Chloro-3-methylphenol	240	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2-Methylnaphthalene	36,400	**630**	420 U	380 U	410 U	**1100**	**490 J**	440 U	710 U	600
Hexachlorocyclopentadiene		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2,4,6-Trichlorophenol		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2,4,5-Trichlorophenol	100	960 U	1000 U	960 U	1000 U	1400 U	2900 U	1100 U	1800 U	990 U
2-Chloronaphthalene		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2-Nitroaniline	430	960 U	1000 U	960 U	1000 U	1400 U	2900 U	1100 U	1800 U	990 U
Dimethylphthalate	2,000	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Acenaphthylene	41,000	87 J	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2,6-Dinitrotoluene	1,000	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
3-Nitroaniline	500	960 U	1000 U	960 U	1000 U	1400 U	2900 U	1100 U	1800 U	990 U
Acenaphthene	50,000	**360 J**	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	**52 J**
2,4-Dinitrophenol	200	960 U	1000 U	960 U	1000 U	1400 U	2900 U	1100 U	1800 U	990 U
4-Nitrophenol	100	960 U	1000 U	960 U	1000 U	1400 U	2900 U	1100 U	1800 U	990 U

TABLE 2
Target Compound List - Semi Volatile Organic Compounds
Mayer Landfill, Blooming, Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-29E 9' 62355004 11-29-99 ug/kg	SS-30-B SURFACE 62383003 12-01-99 ug/kg	SS-30B 12' 62383006 12-01-99 ug/kg	SS-30C SURFACE 62383007 12-01-99 ug/kg	SS-30C 3' 62383008 12-01-99 ug/kg	SS-31B 13' 62355001 11-29-99 ug/kg	SS-31C 7' 62355002 11-29-99 ug/kg	SS-32 B 6' 62364006 11-30-99 ug/kg	DUP112999 62355010 11-29-99 ug/kg Dup of SS-27B
Dibenzofuran	6,200	**320 J**	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
2,4-Dinitrotoluene		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Diethylphthalate	7,100	380 U	420 U	380 U	410 U	550 U	**160 J**	440 U	710 U	**130 J**
4-Chlorophenyl-phenylether		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Fluorene	50,000	**520**	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	**74 J**
4-Nitroaniline		960 U	1000 U	960 U	1000 U	1400 U	2900 U	1100 U	1800 U	990 U
4,6-Dinitro-2-methylphenol		960 U	1000 U	960 U	1000 U	1400 U	2900 U	1100 U	1800 U	990 U
N-Nitrosodiphenylamine (1)		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
4-Bromophenyl-phenylether		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Hexachlorobenzene	410	380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Pentachlorophenol	1,000	960 U	1000 U	960 U	1000 U	1400 U	2900 U	1100 U	1800 U	990 U
Phenanthrene	50,000	**2700**	420 U	380 U	410 U	550 U	**320 J**	440 U	**160 J**	**250 J**
Anthracene	50,000	**490**	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	**50 J**
Carbazole		**440**	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	**58 J**
Di-n-butylphthalate	8,100	380 U	420 U	380 U	410 U	170 J	**240 J**	**220 J**	**110 J**	**120 J**
Fluoranthene	50,000	**1600**	420 U	380 U	410 U	**250 J**	**120 J**	440 U	**420 J**	**110 J**
Pyrene	50,000	**1500**	420 U	380 U	410 U	**330 J**	**260 J**	440 U	**660 J**	**260 J**
Butylbenzylphthalate	50,000	380 U	420 U	380 U	410 U	550 U	**1900**	440 U	**100 J**	**4900 D**
3,3-Dichlorobenzidine		380 U	420 U	380 U	410 U	550 U	1200 U	440 U	710 U	400 U
Benzo(a)anthracene	224	**460**	420 U	380 U	410 U	550 U	1200 U	440 U	**250 J**	**55 J**
Chrysene	400	**450**	420 U	380 U	410 U	550 U	1200 U	440 U	**260 J**	**57 J**
bis(2-Ethylhexyl)phthalate	50,000	**54 J**	420 U	380 U	410 U	**3300**	**75000 D**	**7300 D**	**2100**	**9900 D**
Di-n-octylphthalate	50,000	380 U	420 U	380 U	410 U	550 U	1200 UJ	440 U	710 UJ	**5200 J**
Benzo(b)fluoranthene	1,100	**390**	420 U	380 U	410 U	550 U	1200 UJ	440 U	**410 J**	**62 J**
Benzo(k)fluoranthene	1,100	**190 J**	420 UJ	380 UJ	410 UJ	550 UJ	1200 UJ	440 U	**150 J**	**23 J**
Benzo(a)pyrene	61	**300 J**	420 U	380 U	410 U	550 U	1200 UJ	440 U	**240 J**	400 UJ
Indeno(1,2,3-cd)pyrene	3,200	**170 J**	420 U	380 U	410 U	550 U	1200 UJ	440 U	**130 J**	400 UJ
Dibenzo(a,h)anthracene	14	380 U	420 U	380 U	410 U	550 U	1200 UJ	440 U	710 U	400 UJ
Benzo(g,h,i)perylene	50,000	**150 J**	420 U	380 U	410 U	550 U	1200 UJ	440 U	**110 J**	400 UJ
Total PAHs		12340	0	0	0	2450	2590	49	2990	2563
Cacinogenic PAHs		2110	0	0	0	0	0	0	1550	197
BaP Equivilants		104.35	0	0	0	0	0	0	320.76	11.987

Bolded: Detected Concentration

Exceeds Criteria

TABLE 2
Target Compound List - Semi Volatile Organic Compounds
Mayer Landfill, Blooming, Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	FB112999 62355011 11-29-99 ug/l	FB 113099 62364007 11-30-99 ug/l	DUP120199 62383012 Dup of 26A Surface 12-01-99 ug/kg	FB120199 62383013 12-01-99 ug/l
Phenol	30	10 U	10 U	420 U	10 U
bis(-2-Chloroethyl)Ether		10 U	10 U	420 U	10 U
2-Chlorophenol	800	10 U	10 U	420 U	10 U
1,3-Dichlorobenzene	1,600	10 U	10 U	420 U	10 U
1,4-Dichlorobenzene	8,500	10 U	10 U	420 U	10 U
1,2-Dichlorobenzene	7,900	10 U	10 U	420 U	10 U
2-Methylphenol	100	10 U	10 U	420 U	10 U
2,2-oxybis(1-Chloropropane)		10 U	10 U	420 U	10 U
4-Methylphenol	900	10 U	10 U	420 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	420 U	10 U
Hexachloroethane		10 U	10 U	420 U	10 U
Nitrobenzene	200	10 U	10 U	420 U	10 U
Isophorone	4,400	10 U	10 U	420 U	10 U
2-Nitrophenol	330	10 U	10 U	420 U	10 U
2,4-Dimethyphenol		10 U	10 U	420 U	10 U
2,4-Dichlorophenol		10 U	10 U	420 U	10 U
1,2,4-Trichlorobenzene	3,400	10 U	10 U	420 U	10 U
Naphthalene	13,000	10 U	10 U	420 U	10 U
4-Chloroaniline	220	10 U	10 U	420 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	420 U	10 U
Hexachlorobutadiene		10 U	10 U	420 U	10 U
4-Chloro-3-methylphenol	240	10 U	10 U	420 U	10 U
2-Methylnaphthalene	36,400	10 U	10 U	420 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	420 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	420 U	10 U
2,4,5-Trichlorophenol	100	25 U	25 U	1000 U	25 U
2-Chloronaphthalene		10 U	10 U	420 U	10 U
2-Nitroaniline	430	25 U	25 U	1000 U	25 U
Dimethylphthalate	2,000	10 U	10 U	420 U	10 U
Acenaphthylene	41,000	10 U	10 U	420 U	10 U
2,6-Dinitrotoluene	1,000	10 U	10 U	420 U	10 U
3-Nitroaniline	500	25 U	25 U	1000 U	25 U
Acenaphthene	50,000	10 U	10 U	420 U	10 U
2,4-Dinitrophenol	200	25 U	25 U	1000 U	25 U
4-Nitrophenol	100	25 U	25 U	1000 U	25 U

TABLE 2
Target Compound List - Semi Volatile Organic Compounds
Mayer Landfill, Blooming, Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	FB112999 62355011 11-29-99 ug/l	FB 113099 62364007 11-30-99 ug/l	DUP120199 62383012 Dup of 26A Surface 12-01-99 ug/kg	FB120199 62383013 12-01-99 ug/l
Dibenzofuran	6,200	10 U	10 U	420 U	10 U
2,4-Dinitrotoluene		10 U	10 U	420 U	10 U
Diethylphthalate	7,100	10 U	10 U	420 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	420 U	10 U
Fluorene	50,000	10 U	10 U	420 U	10 U
4-Nitroaniline		25 U	25 U	1000 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	1000 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	420 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	420 U	10 U
Hexachlorobenzene	410	10 U	10 U	420 U	10 U
Pentachlorophenol	1,000	25 U	25 U	1000 U	25 U
Phenanthrene	50,000	10 U	10 U	420 U	10 U
Anthracene	50,000	10 U	10 U	420 U	10 U
Carbazole		10 U	10 U	420 U	10 U
Di-n-butylphthalate	8,100	10 U	10 U	420 U	10 U
Fluoranthene	50,000	10 U	10 U	420 U	10 U
Pyrene	50,000	10 U	10 U	420 U	10 U
Butylbenzylphthalate	50,000	10 U	10 U	420 U	10 U
3,3-Dichlorobenzidine		10 U	10 U	420 U	10 U
Benzo(a)anthracene	224	10 U	10 U	420 U	10 U
Chrysene	400	10 U	10 U	420 U	10 U
bis(2-Ethylhexyl)phthalate	50,000	10 U	10 U	420 U	10 U
Di-n-octylphthalate	50,000	10 U	10 U	420 U	10 U
Benzo(b)fluoranthene	1,100	10 U	10 U	420 U	10 U
Benzo(k)fluoranthene	1,100	10 U	10 U	420 UJ	10 U
Benzo(a)pyrene	61	10 U	10 U	420 U	10 U
Indeno(1,2,3-cd)pyrene	3,200	10 U	10 U	420 U	10 U
Dibenzo(a,h)anthracene	14	10 U	10 U	420 U	10 U
Benzo(g,h,i)perylene	50,000	10 U	10 U	420 U	10 U
Total PAHs		0	0	0	0
Cacinogenic PAHs		0	0	0	0
BaP Equivilants		0	0	0	0

Bolded: Detected Concentration
Exceeds Criteria

TABLE 3
Target Compound List
Pesticides and Polychlorinate Biphenyls (PCBs)
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-23 AA 10' 62364001 11-30-99 ug/kg	SS-23C 8' 62355009 11-29-99 ug/kg	SS-24A 11' 62383002 12-01-99 ug/kg	SS-24B SURFACE 62383001 12-01-99 ug/kg	SS-25 AA 13' 62364002 11-30-99 ug/kg	SS-25 B 13.5' 62364003 11-30-99 ug/kg	SS-25 C 2.5'-3.5' 62364004 11-30-99 ug/kg	SS-25 D SURFACE 62364005 11-30-99 ug/kg	SS-25F 2' 62355007 11-29-99 ug/kg	SS-26A SURFACE 62383004 12-01-99 ug/kg	SS-26A 6' 62383005 12-01-99 ug/kg	SS-26B 8' 62383011 12-01-99 ug/kg
alpha-BHC	110	6 U	1.9 U	5.3 U	2.1 U	4.8 U	**15 PJ**	1.9 U	1.9 U	1.9 U	2 U	3.1 U	2.7 U
beta-BHC	200	6 U	1.9 U	5.3 U	2.1 U	16 J	**4.7 PJ**	1.9 U	1.9 U	1.9 U	2 U	3.1 U	2.7 U
delta-BHC	300	**14 P**	1.9 U	5.3 U	2.1 U	**7.3 P**	4.2 U	1.9 U	1.9 U	1.9 U	2 U	3.1 U	2.7 U
gamma-BHC (Lindane)	60	6 U	1.9 U	5.3 U	2.1 U	4.8 U	4.2 U	1.9 U	1.9 U	1.9 U	2 U	3.1 U	2.7 U
Heptachlor	100	**29 P**	1.9 U	**23 P**	2.1 U	**16 P**	**9.8 P**	1.9 U	1.9 U	1.9 U	**2.9 P**	3.1 U	2.7 U
Aldrin	41	**14 P**	1.9 U	**8.5 P**	2.1 U	**41**	**4.2** U	1.9 U	1.9 U	1.9 U	2 U	3.1 U	2.7 U
Heptachlor epoxide	20	**36 P**	1.9 U	**17 P**	2.1 U	**17 P**	**10 P**	1.9 U	1.9 U	1.9 U	2 U	3.1 U	**3.1 P**
Endosulfan I	900	6 U	1.9 U	5.3 U	2.1 U	**12 P**	4.2 U	1.9 U	1.9 U	1.9 U	2 U	3.1 U	2.7 U
Dieldrin	44	**53 P**	3.6 U	10 U	4 U	**48**	**8.3**	3.8 U	3.8 U	3.6 U	4 U	6.1 U	5.3 U
4,4-DDE	2,100	**46**	3.6 U	10 U	4 U	**32**	8.1 U	3.8 U	3.8 U	3.6 U	4 U	**7.5**	5.3 U
Endrin	100	12 U	3.6 U	10 U	4 U	9.3 U	8.1 U	3.8 U	3.8 U	3.6 U	4 U	6.1 U	5.3 U
Endosulfan II	900	**22 P**	3.6 U	10 U	4 U	**11 P**	8.1 U	3.8 U	3.8 U	3.6 U	4 U	6.1 U	5.3 U
4,4-DDD	2,900	**39 P**	3.6 U	10 U	4 U	**28**	8.1 U	3.8 U	3.8 U	3.6 U	4 U	6.1 U	5.3 U
Endosulfan sulfate	1,000	**12 P**	3.6 U	10 U	4 U	9.3 U	8.1 U	3.8 U	3.8 U	3.6 U	4 U	6.1 U	5.3 U
4,4-DDT	2,100	**13 P**	3.6 U	10 U	4 U	9.3 U	8.1 U	3.8 U	3.8 U	3.6 U	4 U	6.1 U	5.3 U
Methoxychlor	***	60 U	19 U	53 U	21 U	48 U	**67 P**	19 U	19 U	19 U	20 U	31 U	27 U
Endrin ketone	N/A	12 U	3.6 U	10 U	4 U	9.3 U	8.1 U	3.8 U	3.8 U	3.6 U	4 U	6.1 U	5.3 U
Endrin aldehyde		12 U	3.6 U	10 U	4 U	9.3 U	8.1 U	3.8 U	3.8 U	3.6 U	4 U	6.1 U	5.3 U
alpha-Chlordane	540	6 U	1.9 U	5.3 U	2.1 U	11 P	4.2 U	1.9 U	1.9 U	1.9 U	2 U	3.1 U	2.7 U
gamma-Chlordane	540	**32 P**	1.9 U	**5.5 P**	2.1 U	**25 P**	**9.7 P**	1.9 U	1.9 U	1.9 U	2 U	**4.3**	**3.5 P**
Toxaphene		600 U	190 U	530 U	210 U	480 U	420 U	190 U	190 U	190 U	200 U	310 U	270 U
Aroclor-1016	1,000-surface 10,000-subsurface	120 U	36 U	100 U	40 U	93 U	81 U	38 U	38 U	36 U	40 U	61 U	53 U
Aroclor-1221	1,000-surface 10,000-subsurface	240 U	74 U	210 U	82 U	190 U	160 U	76 U	77 U	74 U	80 U	120 U	110 U
Aroclor-1232	1,000-surface 10,000-subsurface	120 U	36 U	100 U	40 U	93 U	81 U	38 U	38 U	36 U	40 U	61 U	53 U
Aroclor-1242	1,000-surface 10,000-subsurface	**1300**	36 U	**1200 P**	40 U	**620 P**	**570**	38 U	38 U	36 U	**210**	61 U	**140**
Aroclor-1248	1,000-surface 10,000-subsurface	120 U	36 U	100 U	40 U	93 U	81 U	38 U	38 U	36 U	40 U	61 U	53 U
Aroclor-1254	1,000-surface 10,000-subsurface	**700 P**	36 U	100 U	40 U	**700**	**93 P**	38 U	38 U	36 U	40 U	**120 P**	68 P
Aroclor-1260	1,000-surface 10,000-subsurface	120 U	36 U	100 U	40 U	93 U	81 U	38 U	38 U	36 U	40 U	61 U	53 U

***: As per TAGM #4046, Total VOCs<10 ppm.
N/A: Not available
Bolded: Detected Concentration
Exceeds Criteria

TABLE 3
Target Compound List
Pesticides and Polychlorinate Biphenyls (PCBs)
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-27A 15' 62355003 11-29-99 ug/kg	SS-27B 15' 62355006 11-29-99 ug/kg	SS-27D 14' 62355008 11-29-99 ug/kg	SS-27E 8-9' 62355005 11-29-99 ug/kg	SS-28B SURFACE 62383010 12-01-99 ug/kg	SS-28D SURFACE 62383009 12-01-99 ug/kg	SS-29E 9' 62355004 11-29-99 ug/kg	SS-30-B SURFACE 62383003 12-01-99 ug/kg	SS-30B 12' 62383006 12-01-99 ug/kg	SS-30C SURFACE 62383007 12-01-99 ug/kg	SS-30C 3' 62383008 12-01-99 ug/kg	SS-31B 13' 62355001 11-29-99 ug/kg
alpha-BHC	110	**2.6** U	2 U	3.1 U	2.2 U	2.5 U	2.1 U	1.9 U	2.2 U	2 U	2.1 U	2.8 U	6.1 U
beta-BHC	200	2.6 U	2 U	3.1 U	2.2 U	2.5 U	2.1 U	1.9 U	2.2 U	2 U	2.1 U	2.8 U	6.1 U
delta-BHC	300	**3**	2 U	3.1 U	**3** P	2.5 U	2.1 U	**2.1** P	2.2 U	2 U	2.1 U	2.8 U	**8.9**
gamma-BHC (Lindane)	60	2.6 U	2 U	3.1 U	2.2 U	2.5 U	2.1 U	1.9 U	2.2 U	2 U	2.1 U	2.8 U	6.1 U
Heptachlor	100	**4.5** P	**3.9** P	3.1 U	**3.8** P	2.5 U	2.1 U	1.9 U	2.2 U	2 U	2.1 U	2.8 U	6.1 U
Aldrin	41	2.6 U	**64** PD	3.1 U	**6.8** P	2.5 U	2.1 U	1.9 U	2.2 U	2 U	2.1 U	2.8 U	6.1 U
Heptachlor epoxide	20	**6.2**	**3.5** P	3.1 U	**10**	2.5 U	2.1 U	1.9 U	2.2 U	2 U	2.1 U	2.8 U	**17** P
Endosulfan I	900	2.6 U	**3.7** P	3.1 U	**6.4** P	2.5 U	2.1 U	1.9 U	2.2 U	2 U	2.1 U	2.8 U	6.1 U
Dieldrin	44	5.1 U	**15** P	5.9 U	**11** P	4.9 U	4.1 U	3.8 U	4.2 U	3.8 U	4 U	5.3 U	**14**
4,4-DDE	2,100	**8.9** P	**17** P	5.9 U	**5.9** P	4.9 U	4.1 U	**6.1**	4.2 U	3.8 U	4 U	**6**	12 U
Endrin	100	5.1 U	4 U	5.9 U	4.3 U	4.9 U	4.1 U	3.8 U	4.2 U	3.8 U	4 U	5.3 U	12 U
Endosulfan II	900	5.1 U	4 U	5.9 U	4.3 U	4.9 U	4.1 U	3.8 U	4.2 U	3.8 U	4 U	5.3 U	12 U
4,4-DDD	2,900	**5.9** P	**66** PD	5.9 U	**14**	4.9 U	4.1 U	3.8 U	4.2 U	3.8 U	4 U	5.3 U	12 U
Endosulfan sulfate	1,000	5.1 U	4 U	5.9 U	4.3 U	4.9 U	4.1 U	3.8 U	4.2 U	3.8 U	4 U	5.3 U	12 U
4,4-DDT	2,100	5.1 U	4 U	5.9 U	4.3 U	4.9 U	4.1 U	3.8 U	4.2 U	3.8 U	4 U	5.3 U	12 U
Methoxychlor	***	26 U	20 U	31 U	22 U	25 U	21 U	19 U	22 U	20 U	21 U	28 U	61 U
Endrin ketone	N/A	5.1 U	4 U	5.9 U	4.3 U	4.9 U	4.1 U	3.8 U	4.2 U	3.8 U	4 U	5.3 U	12 U
Endrin aldehyde		**5.2** P	4 U	5.9 U	4.3 U	4.9 U	4.1 U	3.8 U	4.2 U	3.8 U	4 U	5.3 U	12 U
alpha-Chlordane	540	2.6 U	**3**	3.1 U	**5.6** P	2.5 U	2.1 U	1.9 U	2.2 U	2 U	2.1 U	2.8 U	6.1 U
gamma-Chlordane	540	**5.9**	**4.6** P	3.1 U	**13** P	2.5 U	2.1 U	1.9 U	2.2 U	2 U	2.1 U	**5.1**	**9.3** P
Toxaphene		260 U	200 U	310 U	220 U	250 U	210 U	190 U	220 U	200 U	210 U	280 U	610 U
Aroclor-1016	1,000-surface 10,000-subsurface	51 U	40 U	59 U	43 U	49 U	41 U	38 U	42 U	38 U	40 U	53 U	120 U
Aroclor-1221	1,000-surface 10,000-subsurface	100 U	81 U	120 U	87 U	99 U	84 U	77 U	85 U	78 U	81 U	110 U	240 U
Aroclor-1232	1,000-surface 10,000-subsurface	51 U	40 U	59 U	43 U	49 U	41 U	38 U	42 U	38 U	40 U	53 U	120 U
Aroclor-1242	1,000-surface 10,000-subsurface	**210**	**130** P	80	**190** P	49 U	41 U	**45** P	42 U	38 U	40 U	**88**	**340**
Aroclor-1248	1,000-surface 10,000-subsurface	51 U	40 U	59 U	43 U	49 U	41 U	38 U	42 U	38 U	40 U	53 U	120 U
Aroclor-1254	1,000-surface 10,000-subsurface	**120**	**88** P	59 U	270	49 U	41 U	38 U	42 U	38 U	40 U	**100**	120 U
Aroclor-1260	1,000-surface 10,000-subsurface	**51** U	40 U	59 U	43 U	49 U	41 U	38 U	42 U	38 U	40 U	53 U	120 U

*** As per TAGM #4046, Total VOCs<10 ppm.
N/A: Not available
Bolded: Detected Concentration
Exceeds Criteria

TABLE 3
Target Compound List
Pesticides and Polychlorinate Biphenyls (PCBs)
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	TAGM 4046 Recommended Soil Cleanup Objectives ug/kg	SS-31C 7' 62355002 11-29-99 ug/kg	SS-32 B 6' 62364006 11-30-99 ug/kg	DUP112999 62355010 11-29-99 ug/kg Dup of SS-27B	FB112999 62355011 11-29-99 ug/l	FB 113099 62364007 11-30-99 ug/l	DUP120199 62383012 12-01-99 ug/kg Dup of 26A Surface	FB120199 62383013 12-01-99 ug/l
alpha-BHC	110	2.2 U	3.7 U	.05 U	.05 U	.05 U	2.1 U	.05 U
beta-BHC	200	2.2 U	3.7 U	.05 U	.05 U	.05 U	2.1 U	.05 U
delta-BHC	300	2.2 U	**3.9 P**	.05 U	.05 U	.05 U	2.1 U	.05 U
gamma-BHC (Lindane)	60	2.2 U	**5.4 P**	.05 U	.05 U	.05 U	2.1 U	.05 U
Heptachlor	100	2.2 U	**7.6 P**	.05 U	.05 U	.05 U	2.1 U	.05 U
Aldrin	41	2.2 U	3.7 U	.05 U	.05 U	.05 U	2.1 U	.05 U
Heptachlor epoxide	20	**2.9 P**	**13 P**	.05 U	.05 U	.05 U	2.1 U	.05 U
Endosulfan I	900	2.2 U	**12**	.05 U	.05 U	.05 U	2.1 U	.05 U
Dieldrin	44	4.3 U	**12 P**	.1 U	.1 U	.1 U	4.2 U	.1 U
4,4-DDE	2,100	4.3 U	**9.6 P**	.1 U	.1 U	.1 U	4.2 U	.1 U
Endrin	100	4.3 U	7.1 U	.1 U	.1 U	.1 U	4.2 U	.1 U
Endosulfan II	900	**4.4 P**	7.1 U	.1 U	.1 U	.1 U	4.2 U	.1 U
4,4-DDD	2,900	4.3 U	**25**	.1 U	.1 U	.1 U	4.2 U	.1 U
Endosulfan sulfate	1,000	4.3 U	7.1 U	.1 U	.1 U	.1 U	4.2 U	.1 U
4,4-DDT	2,100	4.3 U	7.1 U	.1 U	.1 U	.1 U	4.2 U	.1 U
Methoxychlor	***	22 U	37 U	.5 U	.5 U	.5 U	21 U	.5 U
Endrin ketone	N/A	4.3 U	7.1 U	.1 U	.1 U	.1 U	4.2 U	.1 U
Endrin aldehyde		4.3 U	7.1 U	.1 U	.1 U	.1 U	4.2 U	.1 U
alpha-Chlordane	540	2.2 U	**11**	.05 U	.05 U	.05 U	2.1 U	.05 U
gamma-Chlordane	540	**2.9 P**	**26**	.05 U	.05 U	.05 U	2.1 U	.05 U
Toxaphene		220 U	370 U	5 U	5 U	5 U	210 U	5 U
Aroclor-1016	1,000-surface 10,000-subsurface	43 U	71 U	1 U	1 U	1 U	42 U	1 U
Aroclor-1221	1,000-surface 10,000-subsurface	88 U	140 U	2 U	2 U	2 U	84 U	2 U
Aroclor-1232	1,000-surface 10,000-subsurface	43 U	71 U	1 U	1 U	1 U	42 U	1 U
Aroclor-1242	1,000-surface 10,000-subsurface	**51 P**	**320**	1 U	1 U	1 U	42 U	1 U
Aroclor-1248	1,000-surface 10,000-subsurface	43 U	71 U	1 U	1 U	1 U	42 U	1 U
Aroclor-1254	1,000-surface 10,000-subsurface	**48 P**	**200 P**	1 U	1 U	1 U	42 U	1 U
Aroclor-1260	1,000-surface 10,000-subsurface	43 U	71 U	1 U	1 U	1 U	42 U	1 U

***: As per TAGM #4046, Total VOCs<10 ppm.
N/A: Not available
Bolded: Detected Concentration
Exceeds Criteria

TABLE 4
Target Analyte List Metals
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	Eastern USA Background ppm	TAGM 4046 Rec.soil Clnup Objct. * ppm	SS-23 AA 10' 62364001 11-30-99 mg/kg		SS-23C 8' 62355009 11-29-99 mg/kg		SS-24A 11' 62383002 12-01-99 mg/kg		SS-24B SURFACE 62383001 12-01-99 mg/kg		SS-25 AA 13' 62364002 11-30-99 mg/kg		SS-25 B 13.5' 62364003 11-30-99 mg/kg		SS-25 C 2.5'-3.5' 62364004 11-30-99 mg/kg		SS-25 D SURFACE 62364005 11-30-99 mg/kg		SS-25F 2' 62355007 11-29-99 mg/kg	
Aluminum	33,000	14318.93	41600		10500		9960		11100		15800		7460		12300		13300		13500	
Antimony	N/A	1.95	1.3	U	R		346		0.43	U	9.1	B	0.73	U	0.34	U	0.4	U	0.32	U
Arsenic	3-12 **	6.99	5.6	B	6		5		5.9		8.1		3.1	B	4.4		5.2		5.8	
Barium	15-600	80.07	126	B	50.8		143		46.6		276		106		56		61.5		60.6	
Beryllium	0-1.75	0.64	0.43	B	0.48	B	0.17	B	0.52	B	0.3	B	0.096	B	0.55	B	0.55	B	0.55	B
Cadmium	0.1-1	1.41	3	B	0.45	B	2.4	B	0.15	B	5.7		1.9		0.26	B	0.11	B	0.49	B
Calcium	130 - 35,000 **	2945.53	23100		2500		38900		2330		27900		18600		437	B	337	B	1370	
Chromium	1.5 - 40 **	18.50	112		13.9		26.6		12.8	J	339		23.9		15.4		13.2		15.7	
Cobalt	2.5 - 60 **	9.29	11.7	B	10	B	10.2	B	10.2	B	18.6	B	8.3	B	8.4		8	B	12.4	
Copper	1-50	17.54	67.8		25.3		37.7		19.7		2210		143		22.6		17.5		26.9	
Cyanide	N/A	N/A	2		0.31	U	0.26	B	0.22	B	0.35	B	2.8		0.049	U	0.048	B	0.037	
Iron	2,000 - 550,000	23723.42	104000		24400		57600		22600		95500		62000		22900		19400		26100	
Lead	***	27.82	374		14.5	J	266		14.3		3130		191		15.6		32.5		18.4	
Magnesium	100 - 5,000	4390.39	6730		4090		4540		4470		6030		1430	B	4290		3450		4860	
Manganese	50 - 5,000	513.92	707		751		990		775		1170		1940		258		345		1080	
Mercury	0.001- 0.2	0.12	0.66		0.71	J	0.54		0.06	U	0.48		0.11	U	0.057	U	0.06	B	0.056	U
Nickel	0.5- 25	18.64	47.1		27		51.7		25.7		458		42.7		27.8		20.6		30.1	
Potassium	8,500 - 43,000 **	1040.60	1150	B	1010	B	633	B	825	B	1450	B	560	B	661	B	410	B	1200	
Selenium	0.1- 3.9	1.39	39.4		4.5		2.4	U	15.4		39.2		17.5		23.1		21.4		10.8	
Silver	N/A	2.20	R		R		5.8		1.4	B	R		R		R		R		R	
Sodium	6,000 - 8,000	161.61	911	B	86.5	B	1180	B	67.3	B	2080	B	1080	B	76.8	B	27.1	U	92.8	B
Thallium	N/A	2.42	2.6	U	1	B	2.3	B	0.87	U	2	U	1.5	U	0.67	U	0.81	U	0.63	U
Vanadium	1-300	23.41	25.9	B	17.8		13.5	B	17.4		23.9	B	8.3	B	18.4		18.6		19.5	
Zinc	9-50	55.27	678		74.3		791		60.1		1970		1290		109		96		80	

* = comparison criteria is 95% UCL of average site background concentrations (Table 5)

**: New York State background

***: Average Levels in underdeveloped, rural areas may range from 4-61 ppm.

N/A: Not available

Exceeds Criteria

TABLE 4
Target Analyte List Metals
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	Eastern USA Background ppm	TAGM 4046 Rec.soil Clnup Objct. * ppm	SS-26A SURFACE 62383004 12-01-99 mg/kg		SS-26A 6' 62383005 12-01-99 mg/kg		SS-26B 8' 62383011 12-01-99 mg/kg		SS-27A 15' 62355003 11-29-99 mg/kg		SS-27B 15' 62355006 11-29-99 mg/kg		SS-27D 14' 62355008 11-29-99 mg/kg		SS-27E 8-9' 62355005 11-29-99 mg/kg		SS-28B SURFACE 62383010 12-01-99 mg/kg		SS-28D SURFACE 62383009 12-01-99 mg/kg	
Aluminum	33,000	14318.93	12700		35500		6680		11600		12500		17800		11000		11900		11800	
Antimony	N/A	1.95	0.34	U	1	U	0.69	U	0.5	U	0.45	U	0.49	U	0.46	U	0.54	UJ	0.46	U
Arsenic	3-12 **	6.99	3		11.8		3.9		5.5		5.8		6.1		5.4		2.3	B	4.9	
Barium	15-600	80.07	55.8		98	B	79.3		54.3		1220		73.2		79.2		45.4	B	53.5	
Beryllium	0-1.75	0.64	0.57	B	1.6	B	0.15	B	0.43	B	0.47	B	0.68	B	0.4	B	0.43	B	0.48	B
Cadmium	0.1-1	1.41	0.034	B	0.64	B	0.56	B	1.4		4.4		0.95	B	2.5		0.027	U	0.12	B
Calcium	130 - 35,000 **	2945.53	194	B	2550	B	14000		5660		4510		2300		3240		269	B	435	B
Chromium	1.5 - 40 **	18.50	13.5		70.3		15.9		20.6		55.8		25.6		27.4		10.9		11	
Cobalt	2.5 - 60 **	9.29	8	B	22.7	B	7.1	B	11.1	B	10	B	14.7		9	B	5.3	B	7.4	B
Copper	1-50	17.54	16.3		126		18.2		44.8		37.3		42		42.3		9.2		13.1	
Cyanide	N/A	N/A	0.051	B	0.43	B	14.7		0.046	B	0.74		0.055		0.1	B	0.86	J	0.19	B
Iron	2,000 - 550,000	23723.42	16900		71700		68400		38100		25300		37500		37600		14800		17900	
Lead	***	27.82	24.9		173		48.1		105		116		47.4		122		16.5		23.9	
Magnesium	100 - 5,000	4390.39	4060		15900		2510		5250		5240		5580		3890		3070		3170	
Manganese	50 - 5,000	513.92	183		589		521		642		621		1420		680		185	J	849	
Mercury	0.001- 0.2	0.12	R		R		R		0.065	U	0.26		0.15		0.11	B	0.059	U	0.057	U
Nickel	0.5- 25	18.64	21.9		148		23.2		32.3		31		37.2		31.9		17.3		17.7	
Potassium	8,500 - 43,000 **	1040.60	563	B	1730	B	570	B	1560		655	B	910	B	808	B	448	B	561	B
Selenium	0.1- 3.9	1.39	17.7		67.2		1.7	U	5.8		1.8		12.8		10		6.3	J	7.2	
Silver	N/A	2.20	0.82	B	8.3		4.5		R		47.2		R		R		0.67	B	0.92	B
Sodium	6,000 - 8,000	161.61	34.9	B	285	B	535	B	955	B	639	B	310	B	359	B	36.2	U	30.8	U
Thallium	N/A	2.42	0.68	U	2.1	U	1.4	U	1	U	0.9	B	1.3	B	1.8	B	1.1	U	0.92	U
Vanadium	1-300	23.41	17.8		55.2		14.4	B	17.3		17.4		28.8		17.1		15.8		18.2	
Zinc	9-50	55.27	57.5		321		168		340		987		231		496		50.6		59.5	

* = comparison criteria is 95% UCL of average site background concentrations (Table 5)

**: New York State background

***: Average Levels in underdeveloped, rural areas may range from 4-61 ppm.

N/A: Not available

Exceeds Criteria

TABLE 4
Target Analyte List Metals
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	Eastern USA Background ppm	TAGM 4046 Rec.soil Clnup Objct. * ppm	SS-29E 9' 62355004 11-29-99 mg/kg		SS-30-B SURFACE 62383003 12-01-99 mg/kg		SS-30B 12' 62383006 12-01-99 mg/kg		SS-30C SURFACE 62383007 12-01-99 mg/kg		SS-30C 3' 62383008 12-01-99 mg/kg		SS-31B 13' 62355001 11-29-99 mg/kg		SS-31C 7' 62355002 11-29-99 mg/kg		SS-32 B 6' 62364006 11-30-99 mg/kg		DUP112999 62355010 11-29-99 mg/kg	
Aluminum	33,000	14318.93	13300		11100		13000		11700		12600		4140		12800		5070		13600	
Antimony	N/A	1.95	0.32	U	0.37	U	0.31	U	0.33	U	0.4	U	2.4	B	0.34	U	2.8	B	0.43	U
Arsenic	3-12 **	6.99	6.1		4.7		4.7		4.8		4.9		2.6	U	3.9		5.1		3.7	
Barium	15-600	80.07	52.7		51.3		51.5		45.1		74.3		206		54.9		52.8	B	59.8	
Beryllium	0-1.75	0.64	0.56	B	0.49	B	0.56	B	0.45	B	0.5	B	0.13	U	0.52	B	0.12	B	0.57	B
Cadmium	0.1-1	1.41	0.39	B	0.033	B	0.015	U	0.016	U	3.7		2.9	B	0.37	B	6.5		0.47	B
Calcium	130 - 35,000 **	2945.53	3140		161	B	2800		116	B	1330		38400		1070		2240	B	1080	B
Chromium	1.5 - 40 **	18.50	16.1		11.1		15		11.6		19.2		52		14.8		76		19	
Cobalt	2.5 - 60 **	9.29	11.9		9	B	13.3		8.9		10.2		3.9	B	10		7.7	B	13.1	
Copper	1-50	17.54	25.2		12.3		21.6		12		31.3		44.4		20.2		95.4		26.8	
Cyanide	N/A	N/A	0.032	U	0.06	U	0.055	U	0.099	B	0.13	B	0.49	B	0.077	B	9.1		0.065	B
Iron	2,000 - 550,000	23723.42	25600		18700		24100		19300		22400		45400		22700		192000		23600	
Lead	***	27.82	19.9		17.2		15.9		15.6		94.9		380		27.9		248		19.3	
Magnesium	100 - 5,000	4390.39	5220		3160		4660		3400		4460		6440		4120		1260	B	4800	
Manganese	50 - 5,000	513.92	976		821		851		940		266		1280		637		450		542	
Mercury	0.001- 0.2	0.12	0.048	U	R		0.048	U	0.058	U	R		1.8		0.058	U	1		0.14	
Nickel	0.5- 25	18.64	29.7		18.6		27.7		19.4		27.9		18	B	25.2		139		31.8	
Potassium	8,500 - 43,000 **	1040.60	817		469	B	1070		619	B	1040		716	B	793	B	376	B	1120	
Selenium	0.1- 3.9	1.39	6		19.9		15.5		20		18.2		3.2	U	10		176		9.9	
Silver	N/A	2.20	R		1.1	B	1.2	B	1	B	1.2	B	R		R		R		1.2	B
Sodium	6,000 - 8,000	161.61	130	B	26.5	B	153	B	21.8	U	198	B	1810	B	81.8	B	530	B	138	B
Thallium	N/A	2.42	0.64	U	0.89	B	0.72	B	0.65	U	0.81	U	2.6	U	0.69	U	1.9	U	0.9	B
Vanadium	1-300	23.41	20.5		17.2		18.9		17.1		18.4		11.6	B	18.7		15.7	B	20	
Zinc	9-50	55.27	72		50.2		80.2		46.8		251		888		70.2		722		153	

* = comparison criteria is 95% UCL of average site background concentrations (Table 5)

**: New York State background

***: Average Levels in underdeveloped, rural areas may range from 4-61 ppm.

N/A: Not available

Exceeds Criteria

TABLE 4
Target Analyte List Metals
Mayer Landfill, Blooming Grove, NY
Test Pit Investigation
November, 1999

ANALYTE	Eastern USA Background ppm	TAGM 4046 Rec.soil Clnup Objct. * ppm	DUP120199 62383012 62383012 12-01-99 mg/kg	FB112999 62355011 11-29-99 ug/l	FB 113099 62364007 11-30-99 ug/l	FB120199 62383013 12-01-99 ug/l
Aluminum	33,000	14318.93	11500	20 U	20 U	20 U
Antimony	N/A	1.95	0.45 U	2 U	2 U	2 U
Arsenic	3-12 **	6.99	5.7	4 U	4 U	4 U
Barium	15-600	80.07	46.2	18 B	12 B	13.5 B
Beryllium	0-1.75	0.64	0.49 B	0.2 U	0.2 U	0.2 U
Cadmium	0.1-1	1.41	0.022 U	1.2 B	0.53 B	0.62 B
Calcium	130 - 35,000 **	2945.53	90.1 B	203 U	203 U	203 U
Chromium	1.5 - 40 **	18.50	12.4	1.8 B	2.1 B	0.88 B
Cobalt	2.5 - 60 **	9.29	8.1 B	1.5 B	0.85 B	0.92 B
Copper	1-50	17.54	11.2	7.3 B	1.4 B	1.7 B
Cyanide	N/A	N/A	0.077 B	1 U	1 U	1.9 B
Iron	2,000 - 550,000	23723.42	20600	27.3 B	20.2 B	22 B
Lead	***	27.82	17.1	9	5.6	4.7
Magnesium	100 - 5,000	4390.39	3100	38.2 B	22.1 B	29.5 B
Manganese	50 - 5,000	513.92	743	2.6 B	1.8 B	1.8 B
Mercury	0.001- 0.2	0.12	0.048 U	0.14 U	0.14 U	0.13 U
Nickel	0.5- 25	18.64	18.5	2.1 B	1.6 B	0.7 B
Potassium	8,500 - 43,000 **	1040.60	424 B	185 B	107 B	74 U
Selenium	0.1- 3.9	1.39	8.2	5 U	5 U	5 U
Silver	N/A	2.20	1 B	R	R	1.3 B
Sodium	6,000 - 8,000	161.61	29.9 U	134 U	134 U	134 U
Thallium	N/A	2.42	0.89 U	4 U	4 U	4 U
Vanadium	1-300	23.41	17.8	0.55 B	0.4 U	0.4 U
Zinc	9-50	55.27	45.7	22	13.4 B	13 U

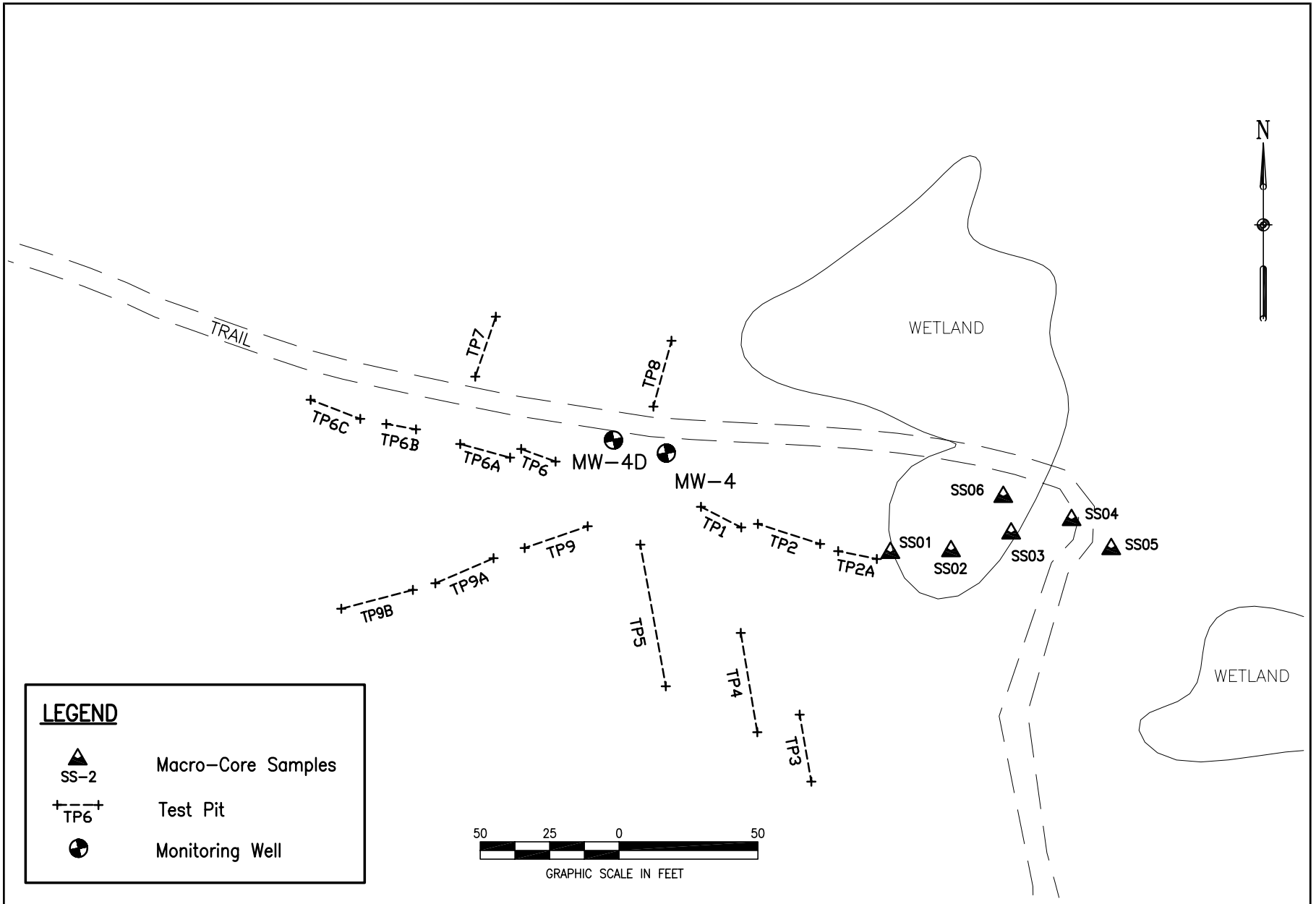
* = comparison criteria is 95% UCL of average site background concentrations (Table 5)

**: New York State background

***: Average Levels in underdeveloped, rural areas may range from 4-61 ppm.

N/A: Not available

Exceeds Criteria



EA ENGINEERING, P.C. AND IT'S AFFILIATE EA SCIENCE AND TECHNOLOGY	MAYER LANDFILL SITE (3-36-027) BLOOMING GROVE, NEW YORK	FIGURE 3 TEST PIT AND MACRO-CORE SAMPLING LOCATIONS	DESIGNED BY LJW	DRAWN BY LJW	DATE 12-19-07	PROJECT NO. 14474.03
			CHECKED BY JF	PROJECT MGR. DWE	SCALE 1" = 50'	FIGURE 3

F:\Projects\Syracuse\NYSDEC\1447403 - Mayer Landfill\Basis of Design\Fig3_SAMPLES.dwg, 12/19/2007 4:12:25 PM

Table 1
Summary of Volatile Organic Compounds (VOCs) in Test Pit Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8260	SAMPLE ID	MAYER-TP-02A		MAYER-TP-03		MAYER-TP-05		MAYER-TP-06C		MAYER-TP-07		MAYER-TP-08		MAYER-TP-09		MAYER-TP05 MS		MAYER-TP05 MSD		DUP		NYSDEC TAGM Guidance Values	NYSDEC Part 375 Soil Cleanup Objectives
	SAMPLE TYPE	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		AC31823-010			
	SAMPLE DATE	7/18/2007		7/17/2007		7/17/2007		7/17/2007		7/18/2007		7/18/2007		7/18/2007		7/17/2007		7/17/2007		7/18/2007			
1,1,1-Trichloroethane	mg/Kg		U		U		U		U		U		U		U	0.29		0.33			U	0.8	0.68
1,1,2,2-Tetrachloroethane	mg/Kg		U		U		U		U		U		U		U	0.23		0.27			U	0.6	
1,1,2-trichloro-1,2,2-trifluoroethane	mg/Kg		U		U		U		U		U		U		U	0.33		0.37			U	6	
1,1,2-Trichloroethane	mg/Kg		U		U		U		U		U		U		U	0.24		0.26			U	NA	
1,1-Dichloroethane	mg/Kg		U		U		U		U		U		U		U	**0.27**		**0.3**			U	0.2	0.27
1,1-Dichloroethene	mg/Kg		U		U		U		U		U		U		U	**0.39**		**0.44**			U	0.4	0.33
1,2,4-Trichlorobenzene	mg/Kg		U		U		U		U		U		U		U	0.21		0.23			U	3.4	
1,2-Dibromo-3-chloropropane	mg/Kg		U		U		U		U		U		U		U	0.21		0.28			U		
1,2-Dibromoethane	mg/Kg		U		U		U		U		U		U		U	0.24		0.27			U		
1,2-Dichlorobenzene	mg/Kg		U		U		U		U	0.0036	J		U		U	0.22		0.25			U	7.9	1.1
1,2-Dichloroethane	mg/Kg		U		U		U		U		U		U		U	**0.27**		**0.31**			U	0.1	0.02
1,2-Dichloropropane	mg/Kg		U		U		U		U		U		U		U	0.25		0.28			U	NA	
1,3-Dichlorobenzene	mg/Kg		U		U		U		U		U		U		U	0.22		0.26			U	1.6	2.4
1,4-Dichlorobenzene	mg/Kg		U	0.035		ND	U		U	0.0049	J		U		U	0.22		0.25			U	8.5	1.8
2-Butanone	mg/Kg		U		U	ND	U		U		U		U		U	**0.26**		**0.32**			U	0.3	0.12
2-Hexanone	mg/Kg		U		U	ND	U		U		U		U		U	0.22		0.26			U	NA	
4-Methyl-2-Pentanone	mg/Kg		U		U	ND	U		U		U		U		U	0.25		0.28			U	1	
Acetone	mg/Kg	**0.13**	U	**0.061**		0.047		0.03		0.038		**0.067**			U	**1.4**		**1.5**		**0.063**		0.2	0.05
Benzene	mg/Kg		U	0.013		**0.14**			U	0.025		0.0019		**0.81**		**0.27**		**0.34**		0.0046		0.06	0.06
Bromodichloromethane	mg/Kg		U		U		U		U		U		U		U	0.26		0.3			U	NA	
Bromoform	mg/Kg		U		U		U		U		U		U		U	0.24		0.28			U	NA	
Bromomethane	mg/Kg		U		U		U		U		U		U		U	0.26		0.32			U	NA	
Carbon disulfide	mg/Kg	0.0022	J		U		U		U		U		U		U	0.29		0.32			U	2.7	
Carbon tetrachloride	mg/Kg		U		U		U		U		U		U		U	0.31		0.34			U	0.6	0.76
Chlorobenzene	mg/Kg	0.0025	J		U		U	0.0013	J	0.0046	J	0.0022	J		U	0.23		0.26		0.0081		1.7	1.1
Chloroethane	mg/Kg		U		U		U		U		U		U		U	0.25		0.28			U	1.9	
Chloroform	mg/Kg		U		U		U		U		U		U		U	0.25		0.29			U	0.3	0.37
Chloromethane	mg/Kg		U		U		U		U		U		U		U	0.2		0.23			U	NA	
cis-1,2-Dichloroethene	mg/Kg		U	0.0034	J		U		U		U		U		U	**0.27**		**0.31**			U	NA	0.25
cis-1,3-Dichloropropene	mg/Kg		U		U		U		U		U		U		U	0.25		0.29			U	NA	
Cyclohexane	mg/Kg		U		U	0.0031	J		U	0.01			U	0.81		0.32		0.38			U		
Dibromochloromethane	mg/Kg		U		U		U		U		U		U		U	0.25		0.27			U	NA	
Dichlorodifluoromethane	mg/Kg		U		U		U		U		U		U		U	0.25		0.28			U		
Ethylbenzene	mg/Kg	0.0022		0.016		0.028			U	0.1			U	**2.7**		0.25		0.43			U	5.5	1
Isopropylbenzene	mg/Kg		U		U	0.0016			U	0.0089			U	0.29		0.26		0.31			U		
m&p-Xylenes	mg/Kg	0.0051		0.03		0.074			U	0.13			U	**4.6**		**0.51**		**0.81**		0.0021	J	1.2	0.26
Methyl Acetate	mg/Kg		U		U		U		U		U		U		U	0.37		0.41			U		
Methylcyclohexane	mg/Kg		U	0.0015	J	0.0066			U	0.032			U	3.5		0.29		0.34			U		
Methylene chloride	mg/Kg	0.029	B	0.036	B	0.014	B	0.011	JB	0.0098	JB	0.025	B		U	**0.34**	**B**	**0.37**	B	0.017	B	0.1	0.05
Methyl-t-butyl ether	mg/Kg		U		U		U		U		U		U		U	0.24		0.27			U		0.93
o-Xylene	mg/Kg	0.0012		0.011		0.034			U	0.048			U	**2.4**		0.25		**0.39**			U	1.2	0.26
Styrene	mg/Kg		U		U	0.07			U	0.0069			U		U	0.26		0.47			U	NA	
Tetrachloroethene	mg/Kg		U	0.0072			U		U		U		U		U	**0.25**		**0.29**			U	1.4	1.3
Toluene	mg/Kg		U	0.0018		0.15			U	0.039			U	**1.6**		0.24		0.42			U	1.5	0.7
trans-1,2-Dichloroethene	mg/Kg		U		U		U		U		U		U		U	**0.28**		**0.31**			U	0.3	0.19
trans-1,3-dichloropropene	mg/Kg		U		U		U		U		U		U		U	0.25		0.28			U	NA	
Trichloroethene	mg/Kg		U		U		U		U		U		U		U	0.24		0.29			U	0.7	0.47
Trichlorofluoromethane	mg/Kg		U		U		U		U		U		U		U	0.33		0.35			U	NA	
Vinyl chloride	mg/Kg		U		U		U		U		U		U		U	**0.25**		**0.3**			U	0.2	0.02

Notes:

All analytical data results provided by Hampton Clarke-Veritech Laboratory.

Only parameters that had at least oe deteection from the data set are shown.

Bold values indicates that the analyted was detected above the NYSDEC TAGM Guidance Values and/or Part 375 Cleanup Objectives.

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Analyte was analyzed for but was not detected above the sample reporting limit.

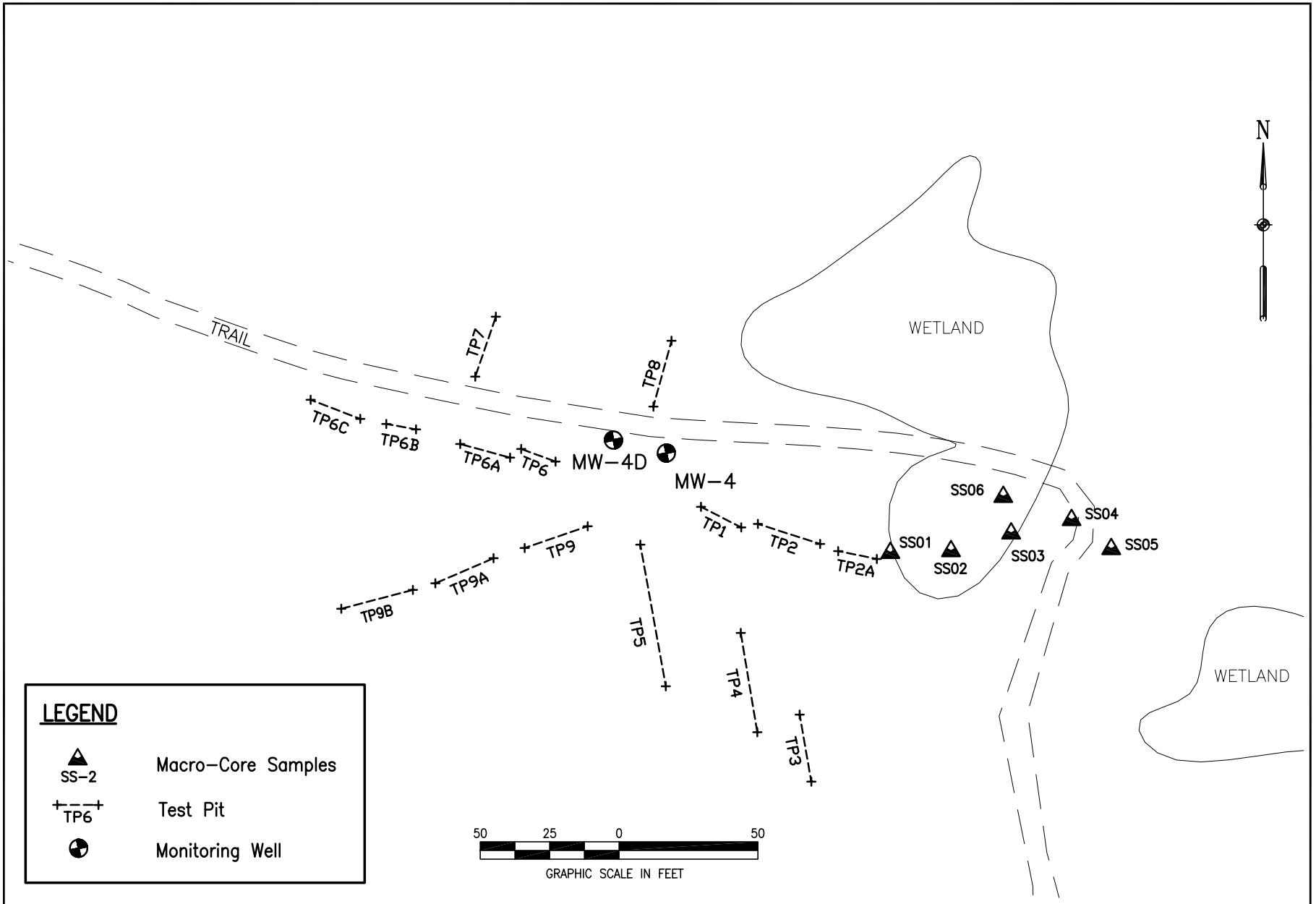
B = Analyte found in blank and may be result of laboratory contamination.

Table 2
Summary of Toxicity Characteristic Leaching Procedure (TCLP) Parameters in Test Pit Soil Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List Full TCLP	Sample ID	MAYER-TP-02A		MAYER-TP-02P		MAYER-TP-03		MAYER-TP-05		MAYER-TP-06C		MAYER-TP-07		MAYER-TP-08		MAYER-TP-09		TCLP Criteria
	Sample Type	Soil		Soil/Product		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	7/18/2007		7/18/2007		7/17/2007		7/17/2007		7/17/2007		7/18/2007		7/18/2007		7/18/2007		
Volatile Organics																		
1,1-Dichloroethene	mg/L		U	MAYER-TP-02P	U		U		U		U		U		U		U	0.7
1,2-Dichloroethane	mg/L		U		U		U		U		U		U		U		U	0.5
1,4-Dichlorobenzene	mg/L		U		U		U		U		U		U		U		U	7.5
2-Butanone	mg/L		U		U		U		U		U		U		U		U	200
Benzene	mg/L		U	0.39			U	0.022		0.0012			U		U	**2**		0.5
Carbon tetrachloride	mg/L		U		U		U		U		U		U		U		U	0.5
Chlorobenzene	mg/L		U		U		U		U	0.0014	J		U		U		U	100
Chloroform	mg/L	0.024		0.02		0.017		0.017		0.027		0.027		0.027		0.025	J	6
Tetrachloroethene	mg/L		U		U		U		U		U		U		U		U	0.7
Trichloroethene	mg/L		U		U		U		U		U		U		U		U	0.5
Vinyl chloride	mg/L		U		U		U		U		U		U		U		U	0.2
Base Neutral Organics																		
2,4,5-Trichlorophenol	mg/L		U		U		U		U		U		U		U		U	400
2,4,6-Trichlorophenol	mg/L		U		U		U		U		U		U		U		U	2
2,4-Dinitrotoluene	mg/L		U		U		U		U		U		U		U		U	0.13
2-Methylphenol	mg/L		U		U		U		U		U		U		U		U	200
3&4-Methylphenol	mg/L		U		U		U		U		U		U		U	0.1		200
Hexachlorobenzene	mg/L		U		U		U		U		U		U		U		U	0.13
Hexachlorobutadiene	mg/L		U		U		U		U		U		U		U		U	0.5
Hexachloroethane	mg/L		U		U		U		U		U		U		U		U	3
Nitrobenzene	mg/L		U		U		U		U		U		U		U		U	2
Pentachlorophenol	mg/L		U		U		U		U		U		U		U		U	100
Pyridine	mg/L		U		U		U		U		U		U		U		U	5
Metals																		
Mercury (TCLP)	mg/L		U		U		U		U		U		U		U		U	0.2
Arsenic (TCLP)	mg/L		U		U		U		U		U		U		U		U	5
Barium (TCLP)	mg/L	0.3		0.76		0.75		0.7		0.48		0.45		0.31		0.49		100
Cadmium (TCLP)	mg/L		U		U		U		U		U		U		U		U	1
Chromium (TCLP)	mg/L		U		U		U		U		U		U		U		U	5
Lead (TCLP)	mg/L		U	0.21			U		U		U		U		U		U	5
Nickel (TCLP)	mg/L		U		U		U		U		U		U		U	0.22		NA
Selenium (TCLP)	mg/L		U		U		U		U		U		U		U		U	1
Silver (TCLP)	mg/L		U		U		U		U		U		U		U		U	5
PCBS																		
Chlordane	mg/L		U		U		U		U		U		U		U		U	0.03
Endrin	mg/L		U		U		U		U		U		U		U		U	0.02
Gamma-BHC	mg/L		U		U		U		U		U		U		U		U	0.4
Heptachlor	mg/L		U		U		U		U		U		U		U		U	0.008
Heptachlor Epoxide	mg/L		U		U		U		U		U		U		U		U	0.008
Methoxychlor	mg/L		U		U		U		U		U		U		U		U	10
Toxaphene	mg/L		U		U		U		U		U		U		U		U	0.5
Other Parameters																		
2,4-D	mg/L		U		U		U		U		U		U		U		U	10
Silvex	mg/L		U		U		U		U		U		U		U		U	1

Notes:
All analytical data results provided by Hampton Clarke-Veritech Laboratory.
Only parameters that had at least oe deteection from the data set are shown.
Bold values indicates that the analyted was detected above the TCLP Criteria
EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.
U = Analyte was analyzed for but was not detected above the sample reporting limit.

APPENDIX A Exhibit 3
LNAPL PRODUCT DATA PACKAGE



EA ENGINEERING, P.C. AND IT'S AFFILIATE EA SCIENCE AND TECHNOLOGY	MAYER LANDFILL SITE (3-36-027) BLOOMING GROVE, NEW YORK	FIGURE 3 TEST PIT AND MACRO-CORE SAMPLING LOCATIONS	DESIGNED BY LJW	DRAWN BY LJW	DATE 12-19-07	PROJECT NO. 14474.03
			CHECKED BY JF	PROJECT MGR. DWE	SCALE 1" = 50'	FIGURE 3

F:\Projects\Syracuse\NYSDEC\1447403 - Mayer Landfill\Basis of Design\Fig3_SAMPLES.dwg, 12/19/2007 4:12:25 PM

Table 7
Summary of Volatile Organic Compounds (VOCs) in Test Pit Product Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8260	Sample ID	MAYER-TP-02P		MAYER-TP-05P		MAYER-TP-06P		MAYER-TP-07P		NYSDEC TAGM Guidance Values	NYSDEC Part 375 Soil Cleanup Objectives
	Sample Type	Soil/Product		Soil/Product		Soil/Product		Soil/Product			
	Sample Date	7/18/2007		7/17/2007		7/17/2007		7/18/2007			
Benzene	mg/Kg	**52**		**420**		**43**		**75**		0.06	0.06
Chlorobenzene	mg/Kg		U		U	**3.5**	J		U	1.7	1.1
Cyclohexane	mg/Kg	33			U	20		13		---	---
Ethylbenzene	mg/Kg	**200**		**720**		**350**		**150**		5.5	1
Isopropylbenzene	mg/Kg	14		43		35		9.1		---	---
m&p-Xylenes	mg/Kg	**250**		**890**		**470**		**200**		1.2	0.26
Methylcyclohexane	mg/Kg	130		150		120		54		---	---
o-Xylene	mg/Kg	**96**		**360**		**130**		**70**		1.2	0.26
Styrene	mg/Kg		U		U		U	40		---	---
Toluene	mg/Kg	**28**		**190**		**6.5**		**180**		1.5	0.7

Notes:

All analytical data results provided by Hampton Clarke-Veritech Laboratory.

Only parameters that had at least oe deteection from the data set are shown.

Bold values indicates that the analyted was detected above the NYSDEC TAGM Guidance Values and/or Part 375 Cleanup Objectives.

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Analyte was analyzed for but was not detected above the sample reporting limit.

Table 8
Summary of Semi-Volatile Organic Compounds (SVOCs) in Test Pit Product Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8270	Sample ID	MAYER-TP-02P		MAYER-TP-05P		MAYER-TP-06P		MAYER-TP-07P		NYSDEC TAGM Guidance Values	NYSDEC Part 375 Soil Cleanup Objectives
	Sample Type	Soil/Product		Soil/Product		Soil/Product		Soil/Product			
	Sample Date	7/18/2007		7/17/2007		7/17/2007		7/18/2007			
2-Methylnaphthalene	mg/Kg	**650**		**1600**	J	**2200**		**1400**		36.4	
Acenaphthene	mg/Kg	**380**	J	**1100**	J	**1600**		**950**		50	20
Acenaphthylene	mg/Kg	**120**	J	**200**	J	**170**	J	**290**	J	41	100
Anthracene	mg/Kg	**530**		**1300**	J	**1800**		**1600**		50	100
Benzo[a]anthracene	mg/Kg	**560**		**1300**	J	**1900**		**1700**		0.224 (M)	1
Benzo[a]pyrene	mg/Kg	**460**		**990**	J	**1500**		**1500**		0.061 (M)	1
Benzo[b]fluoranthene	mg/Kg	**520**		**1100**	J	**1600**		**1700**		1.1	1
Benzo[g,h,i]perylene	mg/Kg	**330**	J	**620**	J	**910**		**970**		50	100
Benzo[k]fluoranthene	mg/Kg	**160**	J	**410**	J	**550**		**480**	J	1.1	0.8
Bis(2-Ethylhexyl)phthalate	mg/Kg		U	**210**	J	**320**	J		U	50	
Butylbenzylphthalate	mg/Kg		U		U	**510**			U	50	
Carbazole	mg/Kg	230	J	840	J	340	J	840		NA	
Chrysene	mg/Kg	**530**		**1100**	J	**1500**		**1600**		0.4	1
Dibenzo[a,h]anthracene	mg/Kg	**68**	J		U	**220**	J	**230**	J	0.014 (M)	0.33
Dibenzofuran	mg/Kg	**320**	J	**960**	J	**990**		**760**		6.2	7
Fluoranthene	mg/Kg	**1600**		**4000**		**5800**		**4600**		50	100
Fluorene	mg/Kg	**500**		**1400**	J	**1700**		**1200**		50	30
Indeno[1,2,3-cd]pyrene	mg/Kg	**270**	J	**560**	J	**790**		**810**		3.2	0.5
Naphthalene	mg/Kg	**2600**		**7600**		**8400**		**6800**		13	12
Phenanthrene	mg/Kg	**2400**		**6200**		**9600**		**6800**		50	100
Pyrene	mg/Kg	**1700**		**4100**		**6100**		**4700**		50	100

Notes:

All analytical data results provided by Hampton Clarke-Veritech Laboratory.

Only parameters that had at least oe deteection from the data set are shown.

Bold values indicates that the analyted was detected above the NYSDEC TAGM Guidance Values and/or Part 375 Cleanup Objectives.

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Analyte was analyzed for but was not detected above the sample reporting limit.

Table 9
Summary of Metals in Test Pit Product Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 6010/7470	Sample ID	MAYER-TP-02P		MAYER-TP-05P		MAYER-TP-06P		MAYER-TP-07P		NYSDEC TAGM Guidance Values	NYSDEC Part 375 Soil Cleanup Objectives
	Sample Type	Soil/Product		Soil/Product		Soil/Product		Soil/Product			
	Sample Date	7/18/2007		7/17/2007		7/17/2007		7/18/2007			
Aluminum	mg/Kg	16000		5000		280		11000		SB	
Antimony	mg/Kg	3.7			U		U		U	SB	
Arsenic	mg/Kg	12		4.2			U	5.2		7.5 or SB	13
Barium	mg/Kg	220		83			U	82		300 or SB	350
Cadmium	mg/Kg	1.8		**3.7**		0.62			U	1.0 or SB	2.5
Calcium	mg/Kg	3500		9400			U	2500		SB	
Chromium	mg/Kg	29		**86**			U	15		10 or SB	30
Cobalt	mg/Kg	11		5.3			U	8.6		30 or SB	
Copper	mg/Kg	**54**		33		9.4		31		25 or SB	50
Iron	mg/Kg	**32000**		**20000**		1400		**19000**		2000 or SB	
Lead	mg/Kg	280		80		5.1		82		Note Pb	63
Magnesium	mg/Kg	4500		2100			U	3900		SB	
Manganese	mg/Kg	**580**		**710**		40		**1900**		SB	1600
Nickel	mg/Kg	28		18			U	21		13 or SB	30
Potassium	mg/Kg	1600		940			U	1400		SB	
Sodium	mg/Kg	520		400			U		U	SB	
Vanadium	mg/Kg	39		47		44		53		150 or SB	
Zinc	mg/Kg	**460**		**650**		13		**140**		20 or SB	109
Mercury	mg/Kg	**0.63**		**0.82**			U		U	0.1	0.18

Notes:

All analytical data results provided by Hampton Clarke-Veritech Laboratory.

Only parameters that had at least oe deteection from the data set are shown.

Bold values indicates that the analyted was detected above the NYSDEC TAGM Guidance Values and/or Part 375 Cleanup Objectives.

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Analyte was analyzed for but was not detected above the sample reporting limit.

Table 10
Summary of PCBs in Test Pit Product Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8082	Sample ID	MAYER-TP-02P		MAYER-TP-05P		MAYER-TP-06P		MAYER-TP-07P		NYSDEC TAGM Guidance Values	NYSDEC Part 375 Soil Cleanup Objectives
	Sample Type	Soil/Product		Soil/Product		Soil/Product		Soil/Product			
	Sample Date	7/18/2007		7/17/2007		7/17/2007		7/18/2007			
Aroclor-1260	mg/Kg		U	0.46			U		U	SEE BELOW	0.1

Notes:

All analytical data results provided by Hampton Clarke-Veritech Laboratory.

Only parameters that had at least oe deteection from the data set are shown.

Bold values indicates that the analyted was detected above the NYSDEC TAGM Guidance Values and/or Part 375 Cleanup Objectives.

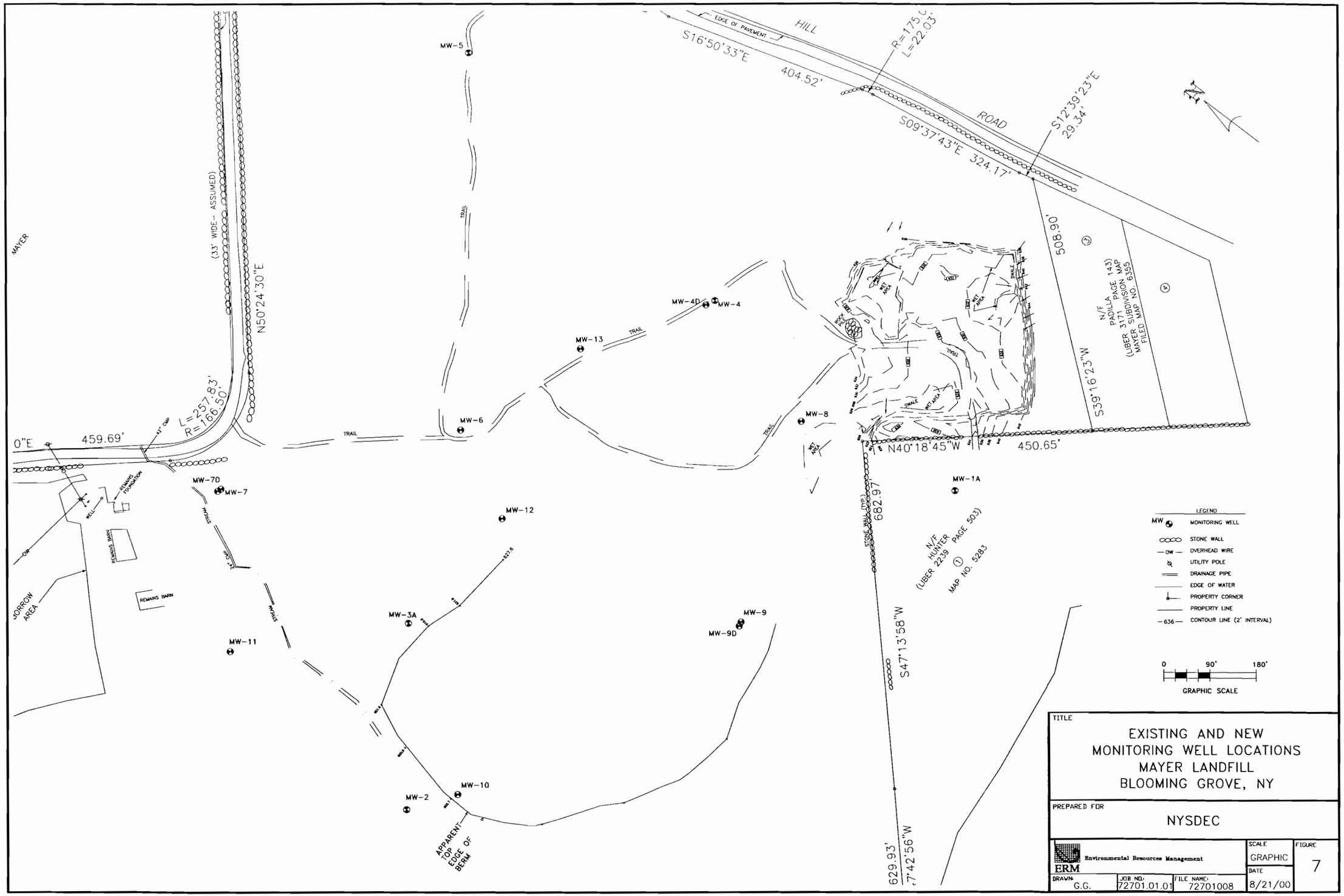
EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Analyte was analyzed for but was not detected above the sample reporting limit.

APPENDIX A Exhibit 4
GROUNDWATER CONTAMINATION DATA PACKAGE



TITLE

EXISTING AND NEW MONITORING WELL LOCATIONS MAYER LANDFILL BLOOMING GROVE, NY

PREPARED FOR

NYSDEC

Environmental Resources Management

ERM

DRAWN	JOB NO.	FILE NAME	SCALE	FIGURE
G.G.	72701.01.01	72701008	GRAPHIC	7
			DATE 8/21/00	

TABLE 10
Target Compounds List
Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-01A MW-1A ug/l	MW-02 MW-2 ug/l	MW-03A MW-3A ug/l	MW-04D MW-4D ug/l	MW-05 MW-5 ug/l	MW-06 MW-6 ug/l	MW-07 MW-7 ug/l	MW-07D MW-7D ug/l	MW-08 MW-8 ug/l
Chloromethane			10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Bromomethane	5		10U	10UJ	10U	10U	10U	10U	10U	10UJ	10U
Vinyl chloride	2	2	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Chloroethane	5	50	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Methylene chloride	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Acetone	50	50	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Carbon disulfide		50	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
1,1-Dichloroethene	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
1,1-Dichloroethane	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
1,2-Dichloroethene (Total)	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Chloroform	7	7	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
1,2-Dichloroethane	1	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
2-Butanone	50	50	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
1,1,1-Trichloroethane	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Carbon tetrachloride	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Bromodichloromethane	50		10U	10U	10U	10U	10U	10U	10U	10UJ	10U
1,2-Dichloropropane	1		10U	10U	10U	10U	10U	10U	10U	10UJ	10U
cis-1,3-Dichloropropene	0.4		10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Trichloroethene	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Dibromochloromethane	50		10U	10U	10U	10U	10U	10U	10U	10UJ	10U
1,1,2-Trichloroethane	1		10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Benzene	1	1	10U	10U	**8J**	10U	10U	10U	10U	10UJ	10U
trans-1,3-Dichloropropene	0.4		10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Bromoform	50		10U	10U	10U	10U	10U	10U	10U	10UJ	10U
4-Methyl-2-pentanone		50	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
2-Hexanone	50		10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Tetrachloroethene	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
1,1,2,2-Tetrachloroethane	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Toluene	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Chlorobenzene	5	5	10U	10U	**29**	10U	10U	10U	10U	10UJ	10U
Ethylbenzene	5	5	10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Styrene	5		10U	10U	10U	10U	10U	10U	10U	10UJ	10U
Xylene (total)	5	5	10U	10U	**36**	10U	10U	10U	10U	10UJ	10U
Sum of Constituents			0.00	0.00	73.00	0.00	0.00	0.00	0.00	0.00	0.00

Bolded: Detected Concentration
Exceeds Criteria

TABLE 10
Target Compounds List
Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-09D MW-9D ug/l	MW-09S MW-9S ug/l	MW-10 MW-10 ug/l	MW-11 MW-11 ug/l	MW-12 MW-12 ug/l	MW-13 MW-13 ug/l
Chloromethane			10U	10U	10U	10U	10U	10U
Bromomethane	5		10U	10UJ	10UJ	10UJ	10U	10UJ
Vinyl chloride	2	2	10U	10U	10U	10U	10U	10U
Chloroethane	5	50	10U	10U	10U	10U	10U	10U
Methylene chloride	5	5	10U	10U	10U	10U	10U	10U
Acetone	50	50	10U	**45**	10U	10U	10U	10U
Carbon disulfide		50	10U	10U	10U	10U	10U	10U
1,1-Dichloroethene	5	5	10U	10U	10U	10U	10U	10U
1,1-Dichloroethane	5	5	10U	10U	10U	10U	10U	10U
1,2-Dichloroethene (Total)	5	5	10U	10U	10U	10U	10U	10U
Chloroform	7	7	10U	10U	10U	10U	10U	10U
1,2-Dichloroethane	1	5	10U	10U	10U	10U	10U	10U
2-Butanone	50	50	10U	10U	10U	10U	10U	10U
1,1,1-Trichloroethane	5	5	10U	10U	10U	10U	10U	10U
Carbon tetrachloride	5	5	10U	10U	10U	10U	10U	10U
Bromodichloromethane	50		10U	10U	10U	10U	10U	10U
1,2-Dichloropropane	1		10U	10U	10U	10U	10U	10U
cis-1,3-Dichloropropene	0.4		10U	10U	10U	10U	10U	10U
Trichloroethene	5	5	10U	10U	10U	10U	10U	10U
Dibromochloromethane	50		10U	10U	10U	10U	10U	10U
1,1,2-Trichloroethane	1		10U	10U	10U	10U	10U	10U
Benzene	1	1	10U	10U	**6J**	10U	10U	10U
trans-1,3-Dichloropropene	0.4		10U	10U	10U	10U	10U	10U
Bromoform	50		10U	10U	10U	10U	10U	10U
4-Methyl-2-pentanone		50	10U	10U	10U	10U	10U	10U
2-Hexanone	50		10U	10U	10U	10U	10U	10U
Tetrachloroethene	5	5	10U	10U	10U	10U	10U	10U
1,1,2,2-Tetrachloroethane	5	5	10U	10U	10U	10U	10U	10U
Toluene	5	5	10U	10U	1J	10U	10U	10U
Chlorobenzene	5	5	10U	10U	**57**	10U	10U	10U
Ethylbenzene	5	5	10U	10U	**1J**	10U	10U	10U
Styrene	5		10U	10U	10U	10U	10U	10U
Xylene (total)	5	5	10U	10U	**43**	10U	10U	10U
Sum of Constituents			0.00	45.00	108.00	0.00	0.00	0.00

Bolded: Detected Concentration
Exceeds Criteria

TABLE 11
Target Compounds List
Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Ground 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-01A MW-1A ug/l	MW-02 MW-2 ug/l	MW-03A MW-3A ug/l	MW-04D MW-4D ug/l	MW-05 MW-5 ug/l	MW-06 MW-6 ug/l	MW-07 MW-7 ug/l	MW-07D MW-7D ug/l	MW-08 MW-8 ug/l	MW-09D MW-9D ug/l	MW-09S MW-9S ug/l
Phenol	1	1	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
bis(-2-Chloroethyl)Ether	1		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2-Chlorophenol	1	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
1,3-Dichlorobenzene	3		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
1,4-Dichlorobenzene	3		10U	10U	6J	10U	10U	10U	10U	10U	10U	10U	10U
1,2-Dichlorobenzene	3		10U	10U	2J	10U	10U	10U	10U	10U	10U	10U	10U
2-Methylphenol	1	5	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2,2-oxybis(1-Chloropropane)			10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
4-Methylphenol	1	50	10U	10U	2J	10U	10U	10U	10U	10U	10U	10U	2J
N-Nitroso-di-n-propylamine			10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Hexachloroethane	5		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Nitrobenzene	0.4	5	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Isophorone	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2-Nitrophenol		5	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2,4-Dimethyphenol	50		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2,4-Dichlorophenol	1		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
1,2,4-Trichlorobenzene	5	1	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Naphthalene	10		10U	10U	21	10U	10U	10U	10U	10U	10U	10U	10U
4-Chloroaniline	5	10	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
bis(2-Chloroethoxy)methane	5	5	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Hexachlorobutadiene	0.5		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
4-Chloro-3-methylphenol	1	5	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2-Methylnaphthalene	42	50	10U	10U	2J	10U	10U	10U	10U	10U	10U	10U	10U
Hexachlorocyclopentadiene	5		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2,4,6-Trichlorophenol	1		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2,4,5-Trichlorophenol	1	1	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U
2-Chloronaphthalene	10		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2-Nitroaniline	5	5	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U
Dimethylphthalate	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Acenaphthylene	48	20	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2,6-Dinitrotoluene	5	5	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
3-Nitroaniline	5	5	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U
Acenaphthene	20	20	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2,4-Dinitrophenol	5	5	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U
4-Nitrophenol		5	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U
Dibenzofuran		5	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2,4-Dinitrotoluene	5		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Diethylphthalate	50	50	10U	10U	2J	10U	10U	10U	10U	10U	10U	10U	10U
4-Chlorophenyl-phenylether			10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Fluorene	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
4-Nitroaniline	5		25U	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U

TABLE 11
Target Compounds List
Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Ground 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-01A MW-1A ug/l	MW-02 MW-2 ug/l	MW-03A MW-3A ug/l	MW-04D MW-4D ug/l	MW-05 MW-5 ug/l	MW-06 MW-6 ug/l	MW-07 MW-7 ug/l	MW-07D MW-7D ug/l	MW-08 MW-8 ug/l	MW-09D MW-9D ug/l	MW-09S MW-9S ug/l
4,6-Dinitro-2-methylphenol			25U	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U
N-Nitrosodiphenylamine (1)	50		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Hexachlorobenzene	0.04	0.35	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Pentachlorophenol	1	1	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U	25U
Phenanthrene	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	**1J**
Anthracene	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Carbazole			10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Di-n-butylphthalate	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	**2J**
Fluoranthene	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Pyrene	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Butylbenzylphthalate	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
3,3-Dichlorobenzidine	5		10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Benzo(a)anthracene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Chrysene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
bis(2-Ethylhexyl)phthalate	5	50	10U	10U	10U	**4J**	10U	10U	10U	10U	10U	10U	10U
Di-n-octylphthalate	50	50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Benzo(b)fluoranthene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Benzo(k)fluoranthene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Benzo(a)pyrene		0.002	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Indeno(1,2,3-cd)pyrene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Dibenzo(a,h)anthracene		50	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Benzo(g,h,i)perylene		5	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U

Bolded: Detected Concentration
Exceeds Criteria

TABLE 11
Target Compounds List
Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Ground 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-10 MW-10 ug/l	MW-11 MW-11 ug/l	MW-12 MW-12 ug/l	MW-13 MW-13 ug/l
Phenol	1	1	10U	10U	10U	10U
bis(-2-Chloroethyl)Ether	1		10U	10U	10U	10U
2-Chlorophenol	1	50	10U	10U	10U	10U
1,3-Dichlorobenzene	3		10U	10U	10U	10U
1,4-Dichlorobenzene	3		**11**	10U	10U	10U
1,2-Dichlorobenzene	3		**2J**	10U	10U	10U
2-Methylphenol	1	5	10U	10U	10U	10U
2,2-oxybis(1-Chloropropane)			10U	10U	10U	10U
4-Methylphenol	1	50	**11**	10U	**2J**	10U
N-Nitroso-di-n-propylamine			10U	10U	10U	10U
Hexachloroethane	5		10U	10U	10U	10U
Nitrobenzene	0.4	5	10U	10U	10U	10U
Isophorone	50	50	10U	10U	10U	10U
2-Nitrophenol		5	10U	10U	10U	10U
2,4-Dimethyphenol	50		10U	10U	10U	10U
2,4-Dichlorophenol	1		10U	10U	10U	10U
1,2,4-Trichlorobenzene	5	1	10U	10U	10U	10U
Naphthalene	10		**9J**	10U	10U	10U
4-Chloroaniline	5	10	10U	10U	10U	10U
bis(2-Chloroethoxy)methane	5	5	10U	10U	10U	10U
Hexachlorobutadiene	0.5		10U	10U	10U	10U
4-Chloro-3-methylphenol	1	5	10U	10U	10U	10U
2-Methylnaphthalene	42	50	**1J**	10U	**2J**	10U
Hexachlorocyclopentadiene	5		10U	10U	10U	10U
2,4,6-Trichlorophenol	1		10U	10U	10U	10U
2,4,5-Trichlorophenol	1	1	25U	25U	25U	25U
2-Chloronaphthalene	10		10U	10U	10U	10U
2-Nitroaniline	5	5	25U	25U	25U	25U
Dimethylphthalate	50	50	10U	10U	10U	10U
Acenaphthylene	48	20	10U	10U	10U	10U
2,6-Dinitrotoluene	5	5	10U	10U	10U	10U
3-Nitroaniline	5	5	25U	25U	25U	25U
Acenaphthene	20	20	10U	10U	10U	10U
2,4-Dinitrophenol	5	5	25U	25U	25U	25U
4-Nitrophenol		5	25U	25U	25U	25U
Dibenzofuran		5	10U	10U	**1J**	10U
2,4-Dinitrotoluene	5		10U	10U	10U	10U
Diethylphthalate	50	50	**3J**	10U	10U	10U
4-Chlorophenyl-phenylether			10U	10U	10U	10U
Fluorene	50	50	10U	10U	**2J**	10U
4-Nitroaniline	5		25U	25U	25U	25U

TABLE 11
Target Compounds List
Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Ground 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-10 MW-10 ug/l	MW-11 MW-11 ug/l	MW-12 MW-12 ug/l	MW-13 MW-13 ug/l
4,6-Dinitro-2-methylphenol			25U	25U	25U	25U
N-Nitrosodiphenylamine (1)	50		**2J**	10U	10U	10U
Hexachlorobenzene	0.04	0.35	10U	10U	10U	10U
Pentachlorophenol	1	1	25U	25U	25U	25U
Phenanthrene	50	50	10U	10U	**11**	10U
Anthracene	50	50	10U	10U	10U	10U
Carbazole			10U	10U	10U	10U
Di-n-butylphthalate	50	50	10U	10U	10U	10U
Fluoranthene	50	50	10U	10U	10U	10U
Pyrene	50	50	10U	10U	10U	10U
Butylbenzylphthalate	50	50	10U	10U	10U	10U
3,3-Dichlorobenzidine	5		10U	10U	10U	10U
Benzo(a)anthracene	0.002	0.002	10U	10U	10U	10U
Chrysene	0.002	0.002	10U	10U	10U	10U
bis(2-Ethylhexyl)phthalate	5	50	**1J**	10U	10U	**2J**
Di-n-octylphthalate	50	50	10U	10U	10U	10U
Benzo(b)fluoranthene	0.002	0.002	10U	10U	10U	10U
Benzo(k)fluoranthene	0.002	0.002	10U	10U	10U	10U
Benzo(a)pyrene		0.002	10U	10U	10U	10U
Indeno(1,2,3-cd)pyrene	0.002	0.002	10U	10U	10U	10U
Dibenzo(a,h)anthracene		50	10U	10U	10U	10U
Benzo(g,h,i)perylene		5	10U	10U	10U	10U

Bolded: Detected Concentration
Exceeds Criteria

TABLE 12
Target Compound List Pesticides/PCBs
Mayer Landfill, Blooming Grove, New York
Ground Water Sampling Round 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-01A MW-1A ug/l	MW-02 MW-2 ug/l	MW-03A MW-3A ug/l	MW-04D MW-4D ug/l	MW-05 MW-5 ug/l	MW-06 MW-6 ug/l	MW-07 MW-7 ug/l	MW-07D MW-7D ug/l
alpha-BHC	0.01	0.05	0.050U	0.050U	0.050U	0.05U	0.050U	0.050U	0.05U	0.05U
beta-BHC	0.04	0.05	0.050U	0.050U	0.050U	0.05U	0.050U	0.050U	0.05U	0.05U
delta-BHC	0.04	0.05	0.050U	0.050U	0.050U	0.05U	0.050U	0.050U	0.05U	0.05U
gamma-BHC (Lindane)	0.05	0.05	0.050U	0.050U	0.050U	0.05U	0.050U	0.050U	0.05U	0.05U
Heptachlor	0.04	0.01	0.050U	0.050U	0.050U	0.05U	0.050U	**0.2**	0.05U	0.05U
Aldrin	ND	0.01	0.050U	0.050U	0.050U	0.05U	0.050U	0.050U	0.05U	0.05U
Heptachlor Epoxide	0.03	0.01	0.050U	0.050U	0.050U	0.05U	0.050U	0.050U	0.05U	0.05U
Endosulfan I	0.22	0.1	0.050U	0.050U	0.050U	0.05U	0.050U	0.050U	0.05U	0.05U
Dieldrin	0.004	0.01	0.10U	0.10U	0.10U	0.1U	0.10U	**0.14P**	0.1U	0.1U
4,4'-DDE	0.2	0.01	0.10U	0.10U	0.10U	0.1U	0.10U	0.10U	0.1U	0.1U
Endrin	ND	0.01	0.10U	0.10U	0.10U	0.1U	0.10U	**0.3P**	0.1U	0.1U
Endosulfan II		0.1	0.10U	0.10U	0.10U	0.1U	0.10U	0.10U	0.1U	0.1U
4,4'-DDD	0.3	0.01	0.10U	0.10U	0.10U	0.1U	0.10U	0.10U	0.1U	0.1U
Endosulfan Sulfate		0.1	0.10U	0.10U	0.10U	0.1U	0.10U	0.10U	0.1U	0.1U
4,4'-DDT	0.2	0.01	0.10U	0.10U	0.10U	0.1U	0.10U	0.10U	0.1U	0.1U
Methoxychlor	35		0.50U	0.50U	0.50U	0.5U	0.50U	0.50U	0.5U	0.5U
Endrin Ketone	5		0.10U	0.10U	0.10U	0.1U	0.10U	0.10U	0.1U	0.1U
Endrin Aldehyde	5		0.10U	0.10U	0.10U	0.1U	0.10U	0.10U	0.1U	0.1U
alpha-Chlordane	0.05		0.050U	0.050U	0.050U	0.05U	0.050U	0.050U	0.05U	0.05U
gamma-Chlordane	0.05	0.1	0.050U	0.050U	0.050U	0.05U	0.050U	0.050U	0.05U	0.05U
Toxaphene	0.06		5.0U	5.0U	5.0U	5U	5.0U	5.0U	5U	5U
Aroclor-1016	0.09*	0.1	1.0U	1.0U	1.0U	1U	1.0U	1.0U	1U	1U
Aroclor-1221	0.09*	0.1	2.0U	2.0U	2.0U	2U	2.0U	2.0U	2U	2U
Aroclor-1232	0.09*	0.1	1.0U	1.0U	1.0U	1U	1.0U	1.0U	1U	1U
Aroclor-1242	0.09*	0.1	1.0U	1.0U	1.0U	1U	1.0U	1.0U	1U	1U
Aroclor-1248	0.09*	0.1	1.0U	1.0U	1.0U	1U	1.0U	1.0U	1U	1U
Aroclor-1254	0.09*	0.1	1.0U	1.0U	1.0U	1U	1.0U	1.0U	1U	1U
Aroclor-1260	0.09*	0.1	1.0U	1.0U	1.0U	1U	1.0U	**2.4P**	1U	1U

ND: Non-Detectable

*: Applies to sum of these compounds

Bolded: Detected Concentration

Exceeds Criteria

TABLE 12
Target Compound List Pesticides/PCBs
Mayer Landfill, Blooming Grove, New York
Ground Water Sampling Round 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-08 MW-8 ug/l	MW-09D MW-9D ug/l	MW-09S MW-9S ug/l	MW-10 MW-10 ug/l	MW-11 MW-11 ug/l	MW-12 MW-12 ug/l	MW-13 MW-13 ug/l
alpha-BHC	0.01	0.05	0.050U	0.050U	0.050U	0.050U	0.050U	**0.14J**	0.050U
beta-BHC	0.04	0.05	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
delta-BHC	0.04	0.05	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
gamma-BHC (Lindane)	0.05	0.05	0.050U	0.050U	0.050U	0.050U	0.050U	**0.34J**	0.050U
Heptachlor	0.04	0.01	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Aldrin	ND	0.01	0.050U	0.050U	0.050U	**0.15P**	0.050U	0.050U	0.050U
Heptachlor Epoxide	0.03	0.01	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Endosulfan I	0.22	0.1	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Dieldrin	0.004	0.01	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
4,4'-DDE	0.2	0.01	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
Endrin	ND	0.01	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
Endosulfan II		0.1	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
4,4'-DDD	0.3	0.01	0.10U	0.10U	0.10U	0.10U	0.10U	**0.11J**	0.10U
Endosulfan Sulfate		0.1	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
4,4'-DDT	0.2	0.01	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
Methoxychlor	35		0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U
Endrin Ketone	5		0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
Endrin Aldehyde	5		0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
alpha-Chlordane	0.05		0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
gamma-Chlordane	0.05	0.1	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Toxaphene	0.06		5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
Aroclor-1016	0.09*	0.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1221	0.09*	0.1	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Aroclor-1232	0.09*	0.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1242	0.09*	0.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1248	0.09*	0.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1254	0.09*	0.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	0.09*	0.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

ND: Non-Detectable

*: Applies to sum of these compounds

Bolded: Detected Concentration

Exceeds Criteria

TABLE 13
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	MW-01A MW1A ug/l	MW-02 MW-2 ug/l	MW-03A MW3A ug/l	MW-04D MW-4D ug/l	MW-05 MW5 ug/l	MW-05 MW-5DISS Filtered	MW-06 MW6 ug/l	MW-06 MW-6DISS Filtered	MW-07 MW-7 ug/l	MW-07D MW-7D ug/l
Aluminum	100*	**302**	**11.7B**	**134B**	**337**	**4130**	**18.5B**	NA	**18.9B**	**67.4B**	**479**
Antimony	3	4U	3U	4U	4U	4U	4U	4U	4U	4U	4U
Arsenic	25	2U	3U	**7.2B**	2U	2U	2U	2U	2U	**7.7B**	2U
Barium	1000	**21.9B**	**13.7B**	**177B**	**16B**	**30.1B**	**9B**	**28.4B**	**31B**	**22.8B**	**7.8B**
Beryllium	3**	**0.44B**	0.3U	0.2U	0.2U	**0.25B**	0.2U	0.2U	0.2U	0.2U	0.2U
Cadmium	5	**0.26B**	0.3U	**4.5B**	**0.32B**	**0.27B**	0.2U	0.2U	0.2U	0.2U	0.2U
Calcium		**16600**	**39500**	**93000**	**48000**	**32200**	**37600**	**35100**	**47800**	**77000**	**77800**
Chromium	50	2U	2U	2U	0.6U	**4.7B**	2U	2U	2U	0.6U	0.6U
Cobalt	5*	**4.8B**	3U	**5.9B**	0.7U	**1.7B**	**0.88B**	**1.1B**	**0.71B**	0.7U	0.7U
Copper	200	**7.8B**	2U	5U	**17.2B**	**6.4B**	5U	5U	5U	**7.9B**	**7.7B**
Iron	300	**226E**	**106**	**46100E**	**456**	**3670E**	**36.4B**	**594**	**38.8B**	**424**	**523**
Lead	25	2U	2U	2U	**7.6**	2U	2U	2U	2U	**4.7**	**5.6**
Magnesium	35000**	**3450B**	**10800**	**33800**	**20100**	**6810**	**7180**	**5390**	**7850**	**14500**	**14300**
Manganese	300	**36.9**	**185**	**305**	**363**	**537**	**5.4J**	**335**	**300**	**2030**	**1260**
Mercury	0.7	0.14U	0.14U	0.14U	0.14U	0.15U	0.14U	0.14U	0.14U	0.14U	0.14U
Nickel	100	**5.9B**	3U	**41.9**	**1.9B**	**4.8B**	1.4B	**2.1B**	**1.2B**	**1B**	**1.6B**
Potassium		**591B**	**874B**	**59300**	**1980B**	**1760B**	**424B**	**1150B**	**1600B**	**671B**	**891B**
Selenium	10	3U	5U	**11.4**	8	**5.9**	**4.4B**	3U	**4.7B**	**4.9B**	**7.5**
Silver	50	**2B**	8UJ	**8.8B**	2U	2U	2U	2U	2U	2U	2U
Sodium	20,000	**1820B**	**12600**	**96400**	**19900**	**6670**	**7110**	**2080BE**	**2920B**	**8740**	**9960**
Thallium	0.5	2U	5U	2U	**4.7B**	2U	2U	2U	2U	**2.7B**	**3.1B**
Vanadium	14*	**8.6B**	3U	**20.4B**	**31.8B**	**11.8B**	**9.5B**	**7.7B**	**10.2B**	**23.3B**	**23.6B**
Zinc	2000**	**13.3BJ**	**6.5BJ**	**12.2BJ**	**18.9B**	**14.3BJ**	**10.2BJ**	**5.8BJ**	**4.5BJ**	**4.9B**	**5.2B**
Cyanide	200	2U	2U	2U	2U	2U	2U	2U	2U	2U	2U
Alkalinity (as CaCO3)	(mg/l)	53	180	1200	260	130		140		260	260
Ammonia (as N)	(mg/l)	0.2U	0.2U	150	0.2U	0.2U		0.4		0.2U	0.2U
Chloride	(mg/l)	5	5U	95	13	5U		5U		13	14
Hardness	(mg/kg)	56	140	370	200	110		110		250	250

Bolded: Detected Concentration

Exceeds Criteria

*: Protection for Fish Propogation

**: Guidance Value

TABLE 13
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	MW-07D MW-7DDISS Filtered	MW-08 MW8 ug/l	MW-09D MW9D ug/l	MW-09S MW9S ug/l	MW-09S MW-9SDISS Filtered	MW-10 MW-10 ug/l	MW-11 MW-11 ug/l	MW-12 MW12 ug/l	MW-12 MW-12DISS Filtered
Aluminum	100*	**11.7B**	**56.9B**	**206**	**493**	**101B**	**116B**	9U	**4100**	**20.8B**
Antimony	3	**4.1B**	4U	4U	4U	4U	3U	3U	4U	4U
Arsenic	25	2U	2U	2U	**10.9**	**9.6B**	3U	3U	**4B**	2U
Barium	1000	**3.9B**	**36.6B**	**82.7B**	**104B**	**90.2B**	**205**	**16.4B**	**91.3B**	**59.6B**
Beryllium	3**	0.2U	0.2U	0.2U	0.2U	0.2U	0.3U	0.3U	**0.24B**	0.2U
Cadmium	5	0.2U	0.2U	0.2U	0.2U	0.2U	**1.4B**	0.3U	**1.1B**	**0.29B**
Calcium		**89300**	**51400**	**113000**	**82900**	**74700**	**83800**	**4540B**	**154000**	**153000**
Chromium	50	0.6U	2U	2U	2U	2U	2U	2U	**6.8B**	2U
Cobalt	5*	0.7U	0.7U	**4.5B**	**2.5B**	**2.1B**	**3.6J**	**3U**	**5.3B**	**2.7B**
Copper	200	**5.8B**	5U	**12B**	5U	5U	2U	**2U**	**10.8B**	5U
Iron	300	**19.6B**	**243E**	**312**	**675**	**83B**	**67800**	**9.8B**	**10800E**	**3470E**
Lead	25	**5.9**	2U	2U	4.5	2U	**11**	2U	2U	2U
Magnesium	35000**	**15200**	**15500**	**28900**	**17400**	**15200**	**28700**	**1600J**	**48100**	**46600**
Manganese	300	**1620**	**711**	**3200**	**676**	**566**	**738**	**15.6J**	**4370**	**4560**
Mercury	0.7	0.14U	0.14U	0.14U	0.14U	0.15U	0.14U	0.14U	0.14U	0.14U
Nickel	100	**1B**	**1.5B**	**28.8B**	**28.6B**	**29.8B**	**22.3BJ**	3U	**12.4B**	**4.7B**
Potassium		**804B**	**1470B**	**17900**	**55300**	**70900**	**45800**	**509B**	**10300**	**6690**
Selenium	10	**6.4**	3U	3U	**4.2B**	**6.8**	5U	5U	**3.7B**	**3.2B**
Silver	50	2U	2U	2U	2U	2U	8UJ	8UJ	**2.5B**	2U
Sodium	20,000	11300	**14900**	**347000E**	**355000E**	**381000J**	**93100**	**1760B**	**14900**	**12000**
Thallium	0.5	**2.9B**	2U	2U	**2.5B**	2U	5U	5U	2U	2U
Vanadium	14*	**24.4B**	**17.7B**	**35.3B**	**29B**	**26.3B**	**7B**	3U	**50.3**	**44.9B**
Zinc	2000**	**5.6B**	**4.6BJ**	**4.2BJ**	**6BJ**	**4.2BJ**	**46.8**	**7BJ**	**19.1BJ**	**3.2BJ**
Cyanide	200	2U	2U	2U	2U	2U	**2.5B**	R	2U	2U
Alkalinity (as CaCO3)	(mg/l)		250	930	700		890	10	680	
Ammonia (as N)	(mg/l)		0.4	14	15		0.4	0.3	0.2	
Chloride	(mg/l)		11	170	280		98	5U	6	
Hardness	(mg/kg)		190	400	280		330	18	580	

Bolded: Detected Concentration

Exceeds Criteria

*: Protection for Fish Propogation

**: Guidance Value

TABLE 13
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 1
March, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	MW-13 MW13 ug/l	MW-13 MW-13DISS Filtered
Aluminum	100*	**335**	**64.9B**
Antimony	3	4U	4U
Arsenic	25	2U	2U
Barium	1000	**9.6B**	**6.3B**
Beryllium	3**	0.20U	0.2U
Cadmium	5	0.20U	0.2U
Calcium		**7620**	**7940**
Chromium	50	2.0U	2U
Cobalt	5*	**0.96B**	0.7U
Copper	200	5.0U	5U
Iron	300	**394**	**91.4B**
Lead	25	2.0U	2.0U
Magnesium	35000**	**1210B**	**1200B**
Manganese	300	**62.8**	**68**
Mercury	0.7	0.14U	0.14U
Nickel	100	**1.3B**	**1.1B**
Potassium		506B	**467B**
Selenium	10	**3.6B**	3U
Silver	50	2.0U	2U
Sodium	20,000	**1270B**	**1380B**
Thallium	0.5	2.0U	2U
Vanadium	14*	**2.2B**	**1.6B**
Zinc	2000**	**7.5BJ**	**7.8BJ**
Cyanide	200	2U	2U
Alkalinity (as CaCO3)	(mg/l)	23	
Ammonia (as N)	(mg/l)	0.2U	
Chloride	(mg/l)	5U	
Hardness	(mg/kg)	25	

Bolded: Detected Concentration

Exceeds Criteria

*: Protection for Fish Propogation

**: Guidance Value

TABLE 14
Target Compound List
Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 2
May, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-03A MW03A (ug/l)	MW-04D MW04D (ug/l)	MW-07D MW07D (ug/l)	MW-07 MW07 (ug/l)	MW-09S MW09S (ug/l)	MW-10 MW10 (ug/l)	MW-12 MW12 (ug/l)
Chloromethane			10U	10U	10U	10U	10U	10U	10U
Bromomethane	5		10U	10U	10U	10U	10U	10U	10U
Vinyl chloride	2	2	10U	10U	10U	10U	10U	10U	10U
Chloroethane	5	50	10U	10U	10U	10U	10U	10U	10U
Methylene chloride	5	5	10U	10U	10U	10U	10U	10U	**1JB**
Acetone	50	50	10U	10U	10U	10U	10U	**7J**	**21B**
Carbon disulfide		50	10U	10U	10U	10U	10U	10U	10U
1,1-Dichloroethene	5	5	10U	10U	10U	10U	10U	10U	10U
1,1-Dichloroethane	5	5	10U	10U	10U	10U	10U	10U	10U
1,2-Dichloroethene (Total)	5	5	10U	10U	10U	10U	10U	10U	10U
Chloroform	7	7	10U	10U	10U	10U	10U	10U	10U
1,2-Dichloroethane	1	5	10U	10U	10U	10U	10U	10U	10U
2-Butanone	50	50	10U	10U	10U	10U	10U	10U	10U
1,1,1-Trichloroethane	5	5	10U	10U	10U	10U	10U	10U	10U
Carbon tetrachloride	5	5	10U	10U	10U	10U	10U	10U	10U
Bromodichloromethane	50		10U	10U	10U	10U	10U	10U	10U
1,2-Dichloropropane	1		10U	10U	10U	10U	10U	10U	10U
cis-1,3-Dichloropropene	0.4		10U	10U	10U	10U	10U	10U	10U
Trichloroethene	5	5	10U	10U	10U	10U	10U	10U	10U
Dibromochloromethane	50		10U	10U	10U	10U	10U	10U	10U
1,1,2-Trichloroethane	1		10U	10U	10U	10U	10U	10U	10U
Benzene	1	1	10U	10U	10U	10U	10U	**6J**	10U
trans-1,3-Dichloropropene	0.4		10U	10U	10U	10U	10U	10U	10U
Bromoform	50		10U	10U	10U	10U	10U	10U	10U
4-Methyl-2-pentanone		50	10U	10U	10U	10U	10U	**2J**	10U
2-Hexanone	50		10U	10U	10U	10U	10U	**2J**	10U
Tetrachloroethene	5	5	10U	10U	10U	10U	10U	10U	10U
1,1,2,2-Tetrachloroethane	5	5	10U	10U	10U	10U	10U	10U	10U
Toluene	5	5	10U	10U	10U	10U	10U	**1J**	10U
Chlorobenzene	5	5	10U	10U	10U	10U	10U	**48**	10U
Ethylbenzene	5	5	10U	10U	10U	10U	10U	**34**	10U
Styrene	5		10U	10U	10U	10U	10U	10U	10U
Xylene (total)	5	5	10U	10U	10U	10U	10U	**29**	10U
Sum of Constituents			0.00	0.00	0.00	0.00	0.00	129.00	22.00

Bolded: Detected Concentration
Exceeds Criteria

TABLE 15
Target Compound List
Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 2
May, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-03A MW03A ug/l	MW-04D MW04D ug/l	MW-07D MW07D ug/l	MW-07 MW07 ug/l	MW-09S MW09S ug/l	MW-10 MW10 ug/l	MW-12 MW12 ug/l	MW-13 MW13 ug/l
Phenol	1	1	10U	10U	10U	10U	10U	10U	10U	10U
bis(-2-Chloroethyl)Ether	1		10U	10U	10U	10U	10U	10U	10U	10U
2-Chlorophenol	1	50	10U	10U	10U	10U	10U	10U	10U	10U
1,3-Dichlorobenzene	3		10U	10U	10U	10U	10U	10U	10U	10U
1,4-Dichlorobenzene	3		10U	10U	10U	10U	10U	**9J**	10U	10U
1,2-Dichlorobenzene	3		10U	10U	10U	10U	10U	10U	10U	10U
2-Methylphenol	1	5	10U	10U	10U	10U	10U	10U	10U	10U
2,2-oxybis(1-Chloropropane)			10U	10U	10U	10U	10U	10U	10U	10U
4-Methylphenol	1	50	10U	10U	10U	10U	10U	10U	10U	10U
N-Nitroso-di-n-propylamine			10U	10U	10U	10U	10U	10U	10U	10U
Hexachloroethane	5		10U	10U	10U	10U	10U	10U	10U	10U
Nitrobenzene	0.4	5	10U	10U	10U	10U	10U	10U	10U	10U
Isophorone	50	50	10U	10U	10U	10U	10U	10U	10U	10U
2-Nitrophenol		5	10U	10U	10U	10U	10U	10U	10U	10U
2,4-Dimethyphenol	50		10U	10U	10U	10U	10U	10U	10U	10U
2,4-Dichlorophenol	1		10U	10U	10U	10U	10U	10U	10U	10U
1,2,4-Trichlorobenzene	5	1	10U	10U	10U	10U	10U	10U	10U	10U
Naphthalene	10		10U	10U	10U	10U	10U	**8J**	10U	10U
4-Chloroaniline	5	10	10U	10U	10U	10U	10U	10U	10U	10U
bis(2-Chloroethoxy)methane	5	5	10U	10U	10U	10U	10U	10U	10U	10U
Hexachlorobutadiene	0.5		10U	10U	10U	10U	10U	10U	10U	10U
4-Chloro-3-methylphenol	1	5	10U	10U	10U	10U	10U	10U	10U	10U
2-Methylnaphthalene	42	50	10U	10U	10U	10U	10U	**1J**	10U	10U
Hexachlorocyclopentadiene	5		10U	10U	10U	10U	10U	10U	10U	10U
2,4,6-Trichlorophenol	1		10U	10U	10U	10U	10U	10U	10U	10U
2,4,5-Trichlorophenol	1	1	25U	25U	25U	25U	25U	25U	25U	25U
2-Chloronaphthalene	10		10U	10U	10U	10U	10U	10U	10U	10U
2-Nitroaniline	5	5	25U	25U	25U	25U	25U	25U	25U	25U
Dimethylphthalate	50	50	10U	10U	10U	10U	10U	10U	10U	10U
Acenaphthylene	48	20	10U	10U	10U	10U	10U	10U	10U	10U
2,6-Dinitrotoluene	5	5	10U	10U	10U	10U	10U	10U	10U	10U
3-Nitroaniline	5	5	25U	25U	25U	25U	25U	25U	25U	25U
Acenaphthene	20	20	10U	10U	10U	10U	10U	10U	10U	10U
2,4-Dinitrophenol	5	5	25U	25U	25U	25U	25U	25U	25U	25U
4-Nitrophenol		5	25U	25U	25U	25U	25U	25U	25U	25U

TABLE 15
Target Compound List
Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 2
May, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-03A MW03A ug/l	MW-04D MW04D ug/l	MW-07D MW07D ug/l	MW-07 MW07 ug/l	MW-09S MW09S ug/l	MW-10 MW10 ug/l	MW-12 MW12 ug/l	MW-13 MW13 ug/l
Dibenzofuran		5	10U	10U	10U	10U	10U	10U	10U	10U
2,4-Dinitrotoluene	5		10U	10U	10U	10U	10U	10U	10U	10U
Diethylphthalate	50	50	10U	10U	10U	10U	10U	**2J**	10U	10U
4-Chlorophenyl-phenylether			10U	10U	10U	10U	10U	10U	10U	10U
Fluorene	50	50	10U	10U	10U	10U	10U	10U	10U	10U
4-Nitroaniline	5		25U	25U	25U	25U	25U	25U	25U	25U
4,6-Dinitro-2-methylphenol			25U	25U	25U	25U	25U	25U	25U	25U
N-Nitrosodiphenylamine (1)	50		10U	10U	10U	10U	10U	**2J**	10U	10U
Hexachlorobenzene	0.04	0.35	10U	10U	10U	10U	10U	10U	10U	10U
Pentachlorophenol	1	1	25U	25U	25U	25U	25U	25U	25U	25U
Phenanthrene	50	50	10U	10U	10U	10U	10U	10U	**5J**	10U
Anthracene	50	50	10U	10U	10U	10U	10U	10U	10U	10U
Carbazole			10U	10U	10U	10U	10U	10U	10U	10U
Di-n-butylphthalate	50	50	10U	10U	10U	10U	**3J**	10U	10U	10U
Fluoranthene	50	50	10U	10U	10U	10U	10U	10U	10U	10U
Pyrene	50	50	10U	10U	10U	10U	10U	10U	10U	10U
Butylbenzylphthalate	50	50	10U	10U	10U	10U	10U	10U	10U	10U
3,3-Dichlorobenzidine	5		10U	10U	10U	10U	10U	10U	10U	10U
Benzo(a)anthracene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U
Chrysene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U
bis(2-Ethylhexyl)phthalate	5	50	10U	10U	10U	10U	10U	10U	10U	10U
Di-n-octylphthalate	50	50	10U	10U	10U	10U	10U	10U	10U	10U
Benzo(b)fluoranthene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U
Benzo(k)fluoranthene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U
Benzo(a)pyrene		0.002	10U	10U	10U	10U	10U	10U	10U	10U
Indeno(1,2,3-cd)pyrene	0.002	0.002	10U	10U	10U	10U	10U	10U	10U	10U
Dibenzo(a,h)anthracene		50	10U	10U	10U	10U	10U	10U	10U	10U
Benzo(g,h,i)perylene		5	10U	10U	10U	10U	10U	10U	10U	10U
Sum of Constituents			0.00	0.00	0.00	0.00	3.00	22.00	5.00	0.00

Bolded: Detected Concentration
Exceeds Criteria

TABLE 16
Target Compound List - Pesticides/PCBs
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 2
May, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	TAGM 4046 Groundwater Standards/ Criteria (ug/l)	MW-06 MW06 ug/l	MW-07 MW07D ug/l	MW-07 MW07 ug/l	MW-10 MW10 ug/l	MW-12 MW12 ug/l
alpha-BHC	0.01	0.05	0.050U	0.045U	0.050U	0.050U	0.050U
beta-BHC	0.04	0.05	0.050U	0.045U	0.050U	0.050U	0.050U
delta-BHC	0.04	0.05	0.050U	0.045U	0.050U	0.050U	0.050U
gamma-BHC (Lindane)	0.05	0.05	0.050U	0.045U	0.050U	0.050U	0.050U
Heptachlor	0.04	0.01	0.050U	0.045U	0.050U	0.050U	0.050U
Aldrin	ND	0.01	0.050U	0.045U	0.050U	0.050U	0.050U
Heptachlor Epoxide	0.03	0.01	0.050U	0.045U	0.050U	0.050U	0.050U
Endosulfan I	0.22	0.1	0.050U	0.045U	0.050U	0.050U	0.050U
Dieldrin	0.004	0.01	0.10U	0.090U	0.10U	0.10U	0.10U
4,4'-DDE	0.2	0.01	0.10U	0.090U	0.10U	0.10U	0.10U
Endrin	ND	0.01	0.10U	0.090U	0.10U	0.10U	0.10U
Endosulfan II		0.1	0.10U	0.090U	0.10U	0.10U	0.10U
4,4'-DDD	0.3	0.01	0.10U	0.090U	0.10U	0.10U	0.10U
Endosulfan Sulfate		0.1	0.10U	0.090U	0.10U	0.10U	0.10U
4,4'-DDT	0.2	0.01	0.10U	0.090U	0.10U	0.10U	0.10U
Methoxychlor	35		0.50U	0.45U	0.50U	0.50U	0.50U
Endrin Ketone	5		0.10U	0.090U	0.10U	0.10U	0.10U
Endrin Aldehyde	5.0		0.10U	0.090U	0.10U	0.10U	0.10U
alpha-Chlordane	0.05		0.050U	0.045U	0.050U	0.050U	0.050U
gamma-Chlordane	0.05	0.1	0.050U	0.045U	0.050U	0.050U	0.050U
Toxaphene	0.06		5.0U	4.5U	5.0U	5.0U	5.0U
Aroclor-1016	0.09*	0.1	1.0U	0.90U	1.0U	1.0U	1.0U
Aroclor-1221	0.09*	0.1	2.0U	1.8U	2.0U	2.0U	2.0U
Aroclor-1232	0.09*	0.1	1.0U	0.90U	1.0U	1.0U	1.0U
Aroclor-1242	0.09*	0.1	1.0U	0.90U	1.0U	1.0U	1.0U
Aroclor-1248	0.09*	0.1	1.0U	0.90U	1.0U	1.0U	1.0U
Aroclor-1254	0.09*	0.1	1.0U	0.90U	1.0U	1.0U	1.0U
Aroclor-1260	0.09*	0.1	1.0U	0.90U	1.0U	1.0U	1.0U

ND: Non-Detectable

*: Applies to sum of these compounds

Bolded: Detected Concentration

Exceeds Criteria

TABLE 17
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Ground Water Sampling Round 2
May, 2000

ANALYTE	TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values (ug/l)	MW-03A MW03A ug/l	MW-04D MW04D ug/l	MW-06 MW06 ug/l	MW-07D MW07D ug/l	MW-07 MW07 ug/l	MW-09D MW09D ug/l	MW-09S MW09S ug/l	MW-10 MW10 ug/l	MW-12 MW12 ug/l	MW-13 MW13 ug/l
Aluminum	100*	**463**	**27.2B**	**117B**	**106B**	**326**	**435**	**226**	**73B**	703	1370
Antimony	3	3U	3U	3U	3U	3U	3U	3U	3U	3U	3U
Arsenic	25	2U	2U	2U	2U	**4.8B**	2U	**7.4B**	2U	2.3B	2U
Barium	1000	**36.5B**	**4.1B**	**21.1B**	**3.7B**	**20.7B**	**79.4B**	**150B**	**206**	72.6B	14.3B
Beryllium	3**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Cadmium	5	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2B	**0.42B**	0.2U
Calcium		**52200**	**43400**	**33100**	**75300**	**71000**	**110000**	**116000**	**87100**	**171000**	**15900**
Chromium	50	0.4U	0.4U	**0.72B**	0.4U	0.4U	0.4U	0.4U	**5.2B**	0.4U	**2.2B**
Cobalt	5*	0.7U	0.7U	0.7U	0.7U	0.7U	**3.7B**	**2.4B**	0.7U	**2.4B**	**0.75B**
Copper	200	**6.3B**	**5.7B**	**3.5B**	**6.7B**	**3.4B**	**11.9B**	3U	3U	**11.7B**	**6.5B**
Iron	300	**569**	**62.6B**	**207**	**125**	**599**	**634**	**1010**	**67900**	**18700**	**1600**
Lead	25	2U	2U	2U	**2.7B**	**2.6B**	**4.2**	**4.9**	2U	2U	**2.2B**
Magnesium	35000**	**14900**	**17600**	**3620B**	**15000**	**13200**	**27100**	**26200**	**27300**	**51200**	**2240B**
Manganese	300	**648**	**281**	**186**	**977**	**1800**	**2810**	**1320**	**645**	**5790**	140
Mercury	0.7	0.13U	0.14U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U	0.14U	0.13U
Nickel	100	2U	2U	2U	2U	2U	**25.9B**	**25.4B**	**16.6B**	**6.6B**	2U
Potassium		**1590B**	**1290B**	**985B**	**831B**	**772B**	**17200**	**34100**	**47600**	5710	135U
Selenium	10	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Silver	50	5U	5U	5U	5U	5U	5U	5U	**12.1**	5U	5U
Sodium	20,000	**15300**	**16800**	**2370B**	**9610**	**8310**	**319000**	**346000**	**97800**	**11300**	**2770B**
Thallium	0.5	2U	2U	2U	**2.7B**	2U	2U	2U	2U	2U	2U
Vanadium	14*	**21.6B**	**24.2B**	**5.7B**	**18.7B**	**16.8B**	**42.2B**	**41.7B**	2U	44.3B	**3.9B**
Zinc	2000**	**17.8B**	**16.2B**	**10.7B**	**21.1**	**15.3B**	**30.9**	**6.8B**	**24**	**27.9**	**16.6B**
Cyanide	200	2U	2U	**10.4**	2U	2U	2U	2U	2U	2U	2U
Alkalinity (as CaCO3)	(mg/l)	220	240	91	270	260	850	910	940	710	47
Ammonia (as N)	(mg/l)	0.6	0.2U	0.3	0.3	0.3	15	14	110	0.2U	0.2U
Chloride	(mg/l)	13	13	5U	11	11	210	200	110	5U	5U
Hardness	(mg/kg)	190	180	98	230	250	400	390	330	640	49

Bolded: Detected Concentration

Exceeds Criteria

*: Protection for Fish Propogation

**: Guidance Value

Table 15
Summary of Detected Volatile Organic Compounds (VOCs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8260	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW5		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33317-001		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/27/2007		9/26/2007		9/26/2007		9/26/2007		
1,2-Dichlorobenzene	ug/L		U		U		U		U		U		U		U		U		U	3
1,4-Dichlorobenzene	ug/L		U		U		U		U		U		U		U		U		U	3
Acetone	ug/L		U		U		U		U		U		U		U		U		U	
Benzene	ug/L		U		U		U	**290**	J		U		U		U		U		U	1
Carbon disulfide	ug/L		U		U		U		U		U		U		U		U		U	60
Chlorobenzene	ug/L		U		U		U	3.1	J		U		U		U		U		U	5
Ethylbenzene	ug/L		U		U		U	**100**			U		U		U		U		U	5
Isopropylbenzene	ug/L		U		U		U	**8.1**			U		U		U		U		U	5
M&p-Xylenes	ug/L		U		U		U	**100**			U		U		U		U		U	5
Methylene chloride	ug/L		U		U		U	3.6	J		U	3.3	J	2	J		U		U	5
O-Xylene	ug/L		U		U		U	**42**			U		U		U		U		U	5
Toluene	ug/L		U		U		U	**30**		**1.4**	U		U		U		U		U	5

Parameter List EPA Method 8260	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		3-36-027-MW12		3-36-027-MW14D		3-36-027-MW-13		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		AC33317-005		AC33317-007		AC33257-004		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/27/2007		9/28/2007		9/27/2007		
1,2-Dichlorobenzene	ug/L	2	J		U		U	3	J		U		U		U		U	3
1,4-Dichlorobenzene	ug/L	**7.2**			U		U	**13**			U		U		U		U	3
Acetone	ug/L		U		U	1200			U		U		U		U	18	J	
Benzene	ug/L	**9.7**			U		U	**8.7**			U		U		U		U	1
Carbon disulfide	ug/L		U		U	**10**	J		U		U		U		U		U	60
Chlorobenzene	ug/L	**56**			U		U	**66**			U		U		U		U	5
Ethylbenzene	ug/L		U		U		U		U		U		U		U		U	5
Isopropylbenzene	ug/L	2.6			U		U	4.2			U		U		U		U	5
M&p-Xylenes	ug/L	**25**			U		U	**6.2**			U		U		U		U	5
Methylene chloride	ug/L		U		U		U		U		U		U		U		U	5
O-Xylene	ug/L	1.7			U		U		U		U		U		U		U	5
Toluene	ug/L		U		U		U		**U**		U		U		U		U	**5**

Notes:

All analytical data results provided by Hampton Clarke-Veritech.

Bold values indicate that the analyte was detected above the NYSDEC AWQS.

EPA = Environmental Protection Agency

NYSDEC = New State Department of Environmental Conservation

J = Estimated Value

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

ug/L = mircograms per liter (ppb)

Table 15
Summary of Detected Volatile Organic Compounds (VOCs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8260	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		TB		TB 02		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		AC33257-010		AC33317-009		
	Sample Type	Duplicate		MS		MSD		Rinse Blank		Trip Blank		Trip Blank		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		9/26/2007		9/27/2007		
1,1,1-Trichloroethane	ug/L		U	**21**		**20**			U		U		U	5
1,1,2,2-Tetrachloroethane	ug/L		U	**15**		**16**			U		U		U	5
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L		U	**25**		**24**			U		U		U	5
1,1,2-Trichloroethane	ug/L		U	**17**		**15**			U		U		U	1
1,1-Dichloroethane	ug/L		U	**22**		**23**			U		U		U	5
1,1-Dichloroethene	ug/L		U	**20**		**20**			U		U		U	5
1,2,4-Trichlorobenzene	ug/L		U	9.1		8.2			U		U		U	
1,2-Dibromo-3-chloropropane	ug/L		U	13		14			U		U		U	
1,2-Dibromoethane	ug/L		U	16		16			U		U		U	
1,2-Dichlorobenzene	ug/L		U	**14**		**14**			U		U		U	3
1,2-Dichloroethane	ug/L		U	**26**		**25**			U		U		U	0.6
1,2-Dichloropropane	ug/L		U	**21**		**20**			U		U		U	1
1,3-Dichlorobenzene	ug/L		U	**14**		**13**			U		U		U	3
1,4-Dichlorobenzene	ug/L		U	**16**		**15**			U		U		U	3
2-Butanone	ug/L		U	16		17			U		U		U	
2-Hexanone	ug/L		U	12		13			U		U		U	
4-Methyl-2-Pentanone	ug/L		U	17		15			U		U		U	
Acetone	ug/L		U	59		64			U		U		U	
Benzene	ug/L		U	**320**		**320**			U		U		U	1
Bromodichloromethane	ug/L		U	20		20			U		U		U	
Bromoform	ug/L		U	13		13			U		U		U	
Bromomethane	ug/L		U	**22**		**23**			U		U		U	5
Carbon disulfide	ug/L		U	**34**		**33**			U		U		U	60
Carbon tetrachloride	ug/L		U	**19**		**19**			U		U		U	5
Chlorobenzene	ug/L		U	**19**		**18**			U		U		U	5
Chloroethane	ug/L		U	**29**		**29**			U		U		U	5
Chloroform	ug/L		U	22		21			U		U		U	
Chloromethane	ug/L		U	**27**		**25**			U		U		U	5
Cis-1,2-Dichloroethene	ug/L		U	**21**		**20**			U		U		U	5
Cis-1,3-Dichloropropene	ug/L		U	15		14			U		U		U	
Cyclohexane	ug/L		U	24		25			U		U		U	
Dibromochloromethane	ug/L		U	**15**		**14**			U		U		U	5
Dichlorodifluoromethane	ug/L		U	**17**		**17**			U		U		U	5
Ethylbenzene	ug/L		U	**110**		**110**			U		U		U	5
Isopropylbenzene	ug/L		U	**20**		**20**			U		U		U	5
M&p-Xylenes	ug/L		U	**130**		**130**			U		U		U	5
Methyl Acetate	ug/L		U	24		24			U		U		U	
Methylcyclohexane	ug/L		U	17		19			U		U		U	
Methylene chloride	ug/L		U	**22**		**23**			U		U	2.5	J	5
Methyl-t-butyl ether	ug/L		U	**22**		**23**			U		U		U	10
O-Xylene	ug/L		U	**53**		**52**			U		U		U	5
Styrene	ug/L		U	**16**		**16**			U		U		U	5
Tetrachloroethene	ug/L		U	**15**		**15**			U		U		U	5
Toluene	ug/L		U	**47**		**46**			U		U		U	5
Trans-1,2-dichloroethene	ug/L		U	**21**		**22**			U		U		U	5
Trans-1,3-dichloropropene	ug/L		U	15		14			U		U		U	
Trichloroethene	ug/L		U	**17**		**17**			U		U		U	5
Trichlorofluoromethane	ug/L		U	**28**		**24**			U		U		U	5
Vinyl chloride	ug/L		U	**25**		**26**			U		U		U	2

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
J = Estimated Value
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D

Table 16
Summary of Detected Semi-Volatile Organic Compounds (SVOCs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8270	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/26/2007		9/26/2007		9/26/2007		
1,1'-Biphenyl	ug/L		U		U		U	**73**	J		U		U		U		U	
2-Methylnaphthalene	ug/L		U		U		U	**370**			U		U		U		U	
Acenaphthene	ug/L		U		U		U	**230**			U		U		U		U	20
Acenaphthylene	ug/L		U		U		U	**19**	J		U		U		U		U	
Anthracene	ug/L		U		U		U	**190**			U		U		U		U	
Benzo[a]Anthracene	ug/L		U		U		U	**210**			U		U		U		U	
Benzo[a]Pyrene	ug/L		U		U		U	**170**			U		U		U		U	ND
Benzo[b]Fluoranthene	ug/L		U		U		U	**200**			U		U		U		U	
Benzo[g,h,i]Perylene	ug/L		U		U		U	**85**	J		U		U		U		U	
Benzo[k]Fluoranthene	ug/L		U		U		U	**81**	J		U		U		U		U	
bis(2-Ethylhexyl)phthalate	ug/L		U		U		U			**33**	U		U		U		U	5
Carbazole	ug/L		U		U		U	**32**	J		U		U		U		U	
Chrysene	ug/L		U		U		U	**170**			U		U		U		U	
Dibenzo[a,h]Anthracene	ug/L		U		U		U	**18**	J		U		U		U		U	
Dibenzofuran	ug/L		U		U		U	**140**			U		U		U		U	
DI-n-octylphthalate	ug/L		U		U		U			**5.2**	J		U		U		U	
Fluoranthene	ug/L		U		U		U	**690**			U		U		U		U	
Fluorene	ug/L		U		U		U	**250**			U		U		U		U	
Indeno[1,2,3-cd]Pyrene	ug/L		U		U		U	**69**	J		U		U		U		U	
Naphthalene	ug/L		U		U		U	**1100**			U		U		U		U	
Phenanthrene	ug/L		U		U		U	**1100**			U		U		U		U	
Pyrene	ug/L		U		U		U	**700**			U		U		U		U	

Parameter List EPA Method 8270	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		3-36-027-MW12		3-36-027-MW-13		3-36-027-MW14D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		AC33317-005		AC33257-004		AC33317-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/27/2007		9/27/2007		9/28/2007		
2,4-Dimethylphenol	ug/L		U		U	**17**	J		U		U		U		U		U	1
bis(2-Ethylhexyl)phthalate	ug/L	**11**	J		U		U		U		U		U		U		U	5
Butylbenzylphthalate	ug/L		U		U		U		U		U		U		U		U	
Caprolactam	ug/L		U		U		U	**3.1**	J		U		U		U	**2**	J	
Naphthalene	ug/L	**17**			U		U	**6.7**	J		U		U		U		U	
Phenol	ug/L		U		U	**190**			U		U		U		U		U	1

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)

Table 16
Summary of Detected Semi-Volatile Organic Compounds (SVOCs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8270	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		
1,1'-Biphenyl	ug/L			260	J	290	J			
2-Methylnaphthalene	ug/L			1200		1300				
Acenaphthene	ug/L			1000		1000				20
Acenaphthylene	ug/L			130	J	130	J			
Anthracene	ug/L			1100		1200				
Benzo[a]Anthracene	ug/L			1300		1400				
Benzo[a]Pyrene	ug/L			1100		1100				ND
Benzo[b]Fluoranthene	ug/L			1300		1400				
Benzo[g,h,i]Perylene	ug/L			590		640				
Benzo[k]Fluoranthene	ug/L			510	J	450	J			
Chrysene	ug/L			990		1000				
Dibenzo[a,h]Anthracene	ug/L			150	J	140	J			
Dibenzofuran	ug/L			620		630				
Fluoranthene	ug/L			4000		4100				
Fluorene	ug/L			1200		1300				
Indeno[1,2,3-cd]Pyrene	ug/L			470	J	550				
Naphthalene	ug/L			1300		1400				
Phenanthrene	ug/L			5800		6000				
Pyrene	ug/L			4300		4500				

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D

Table 17
Summary of Detected Metals In Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 6010/7470	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW5		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33317-001		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/27/2007		9/26/2007		9/26/2007		9/26/2007		
Aluminum	ug/L		U		U		U		U	430		180000		420			U	180		
Arsenic	ug/L		U		U		U		U		U	**85**			U		U		U	25
Barium	ug/L		U		U	**50**		**85**			U	**1100**			U		U		U	1000
Beryllium	ug/L		U		U		U		U		U	**12**			U		U		U	11*
Cadmium	ug/L		U		U		U		U		U	3.8			U		U		U	5
Calcium	ug/L	21000	J	38000		52000		79000		25000		160000		79000		72000	J	76000	J	
Chromium	ug/L		U		U		U		U		U	**300**			U		U		U	50
Cobalt	ug/L		U		U		U		U		U	180			U		U		U	
Copper	ug/L		U		U		U		U		U	**850**			U		U		U	200
Iron	ug/L		U		U	**610**		**43000**			U	**340000**		650		420			U	300
Lead	ug/L		U		U		U		U		U	**320**			U		U		U	25
Magnesium	ug/L	**3400**	U	**10000**		15000		13000		15000		75000		6500		13000		12000		
Manganese	ug/L		U	**61**		**810**		**1200**		89		**21000**			U	**1400**	J	**4300**	J	300
Nickel	ug/L		U		U		U		U		U	**440**			U		U		U	100
Potassium	ug/L		U		U		U	11000		5000		14000			U		U		U	
Sodium	ug/L		U	**13000**		**15000**		**30000**		12000		10000			U	9600		12000		20000
Vanadium	ug/L		U		U		U		U		U	230			U		U		U	
Zinc	ug/L		U	**70**			U		U		U	1300			U		U		U	

Parameter List EPA Method 6010/7470	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		3-36-027-MW12		3-36-027-MW-13		3-36-027-MW14D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		AC33317-005		AC33257-004		AC33317-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/27/2007		9/27/2007		9/28/2007		
Aluminum	ug/L		U		U		U		U	490		600		7200		450		
Barium	ug/L	200		250		190		230			U	55		53		100		1000
Calcium	ug/L	99000	J	91000	J	13000		93000		4600	J	170000		66000		27000		
Iron	ug/L	**44000**		**6900**			U	**52000**		**660**		**18000**		**13000**		**870**		300
Lead	ug/L	15			U		U	4.7			U		U		U		U	25
Magnesium	ug/L	27000		11000			U	22000				37000		9300		4500		
Manganese	ug/L	**340**	J	**340**	J		U	**450**				**4000**		**320**		120		300
Mercury	ug/L		U		U		U		U		U		U		U		U	0.7
Nickel	ug/L		U		U	**220**			U		U		U		U		U	100
Potassium	ug/L	44000		6400		27000		33000			U		U		U		U	
Sodium	ug/L	**64000**		**24000**		**150000**		**71000**				5200				**62000**		20000

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)

Table 17
Summary of Detected Metals In Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 6010/7470	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		
Aluminum	ug/L		U	4500		4700			U	
Antimony	ug/L		U	**430**		**460**			U	3
Arsenic	ug/L		U	**440**		**460**			U	25
Barium	ug/L		U	540		590			U	1000
Beryllium	ug/L		U	**440**		**450**			U	11*
Cadmium	ug/L		U	**440**		**460**			U	5
Calcium	ug/L	79000	J	130000		140000			U	
Chromium	ug/L		U	**440**		**460**			U	50
Cobalt	ug/L		U	440		460			U	
Copper	ug/L		U	**470**		**490**			U	200
Iron	ug/L		U	**50000**		**75000**			U	300
Lead	ug/L		U	**440**		**460**			U	25
Magnesium	ug/L	12000		58000		62000			U	
Manganese	ug/L	**4500**	J	**1800**		**1600**			U	300
Mercury	ug/L		U	**9.7**		**11**			U	0.7
Nickel	ug/L		U	**450**		**470**			U	100
Potassium	ug/L		U	58000		63000			U	
Selenium	ug/L		U	**450**		**480**			U	10
Silver	ug/L		U	**92**		**97**			U	50
Sodium	ug/L	11000		**79000**		**88000**			U	20000
Thallium	ug/L		U	430		440			U	
Vanadium	ug/L		U	440		460			U	
Zinc	ug/L		U	450		480			U	

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D

Table 18
Summary of Detected Polychlorinated Biphenyls (PCBs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 608	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/26/2007		9/26/2007		9/26/2007		
Aroclor-1016	ug/L		U		U		U		U		U		U		UJ		U	5
Aroclor-1260	ug/L		U		U		U		U		U		U		UJ		U	5

Parameter List EPA Method 608	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		3-36-027-MW14D		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		AC33317-007		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/28/2007		
Aroclor-1016	ug/L		U		U		U		U		U		U		U	5
Aroclor-1260	ug/L		U		U		U		U		U		U		U	5

Parameter List EPA Method 608	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		
Aroclor-1016	ug/L		U	**12**		**12**			U	5
Aroclor-1260	ug/L		U	**11**		**12**			U	5

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D

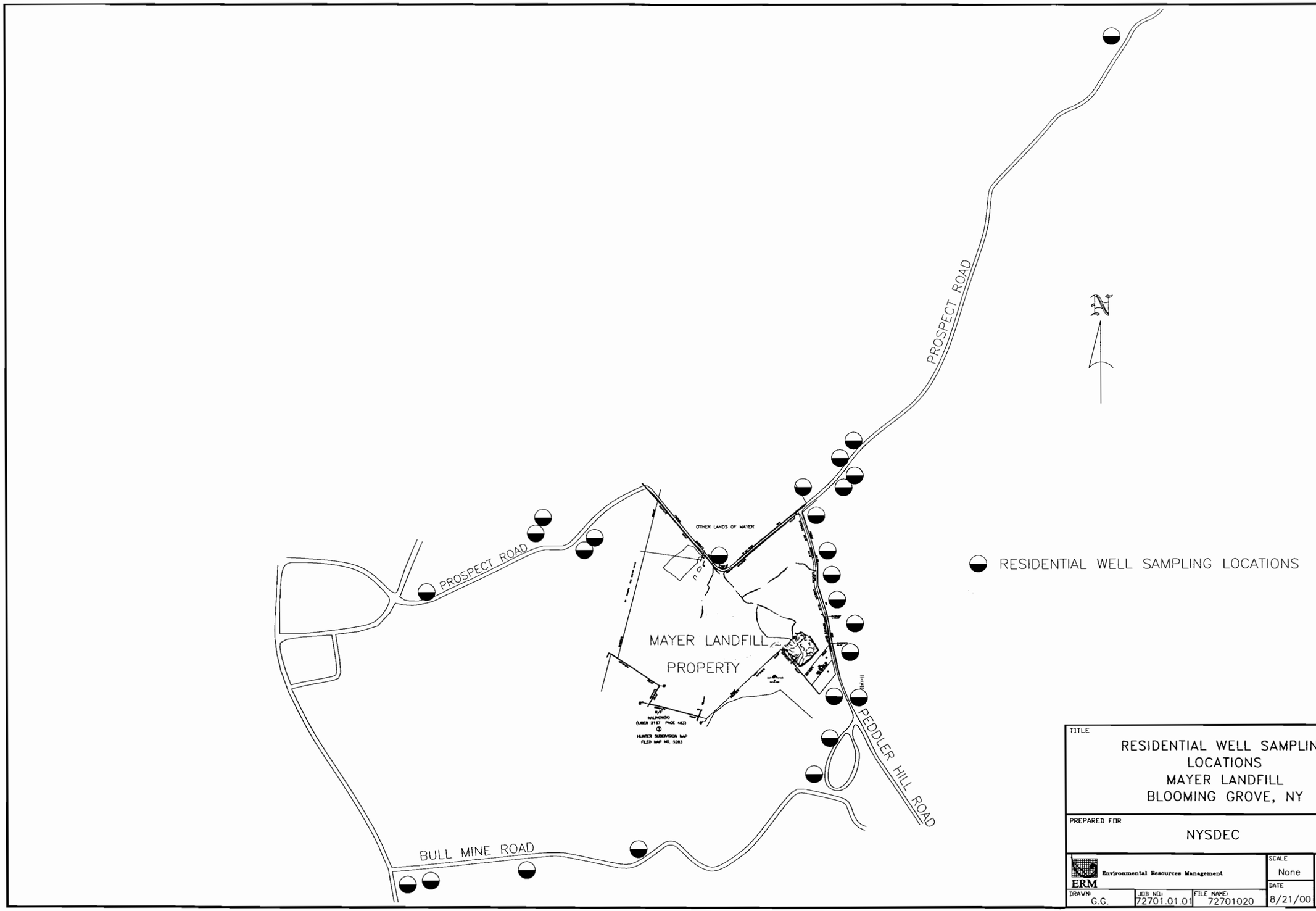
Table 19
Summary of Detected Pesticides in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 608	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/26/2007		9/26/2007		9/26/2007		
p,p'-DDT	ug/L	**0.027**														**0.023**		0.2

Parameter List EPA Method 608	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		
p,p'-DDT	ug/L	0.026			U		U		U	0.02		0.2

Parameter List EPA Method 608	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		
Aldrin	ug/L		U	**0.93**		**0.85**			U	ND
Alpha-BHC	ug/L		U	0.89		0.8			U	
beta-BHC	ug/L		U	1		0.85			U	
Chlordane	ug/L									0.05
delta-BHC	ug/L		U	0.93		0.8			U	
Dieldrin	ug/L		U	**1.1**		**0.99**			U	0.004
Endosulfan I	ug/L		U	1.1		1			U	
Endosulfan II	ug/L		U	1.4		1.1			U	
Endosulfan Sulfate	ug/L		U	1.2		1.1			U	
Endrin	ug/L		U	**1.1**		**1**			U	ND
Endrin Aldehyde	ug/L		U	1.1		0.85			U	5
Endrin Ketone	ug/L		U	1.1		1			U	5
Gamma-BHC	ug/L		U	1		0.89			U	
Heptachlor	ug/L		U	**1**		**0.99**			U	0.04
Heptachlor Epoxide	ug/L		U	**1.1**		**1**			U	0.03
Methoxychlor	ug/L		U	1.2		1.1			U	35
p,p'-DDD	ug/L		U	**1.2**		**1.2**			U	0.3
p,p'-DDE	ug/L		U	**1.2**		**1.2**			U	0.2
p,p'-DDT	ug/L	0.028		**1.1**		0.97			U	0.2

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D



TITLE

RESIDENTIAL WELL SAMPLING LOCATIONS
MAYER LANDFILL
BLOOMING GROVE, NY

PREPARED FOR

NYSDEC

Environmental Resources Management
ERM

SCALE	FIGURE
None	10

DRAWN:	JOB NO.:	FILE NAME:	DATE
G.G.	72701.01.01	72701020	8/21/00

TABLE 30
Target Compounds List
Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

VOCs	NYSDOH Maximum Contaminant Levels (ug/l)	RW-2	RW-4	RW-12	RW-10	RW-3	RW-24	RW-7
acetone		7	8	NR	NR	4	NR	NR
siloxane		10 *	10 *	107 *	80 *	10 *	NR	30 *
2-butanone		NR	NR	1	NR	NR	NR	NR
di-n-butylphthalate		NR	NR	NR	NR	NR	0.8	NR
MTBE	50	NR	NR	NR	NR	NR	NR	NR
TICs		NR	NR	NR	NR	NR	NR	NR

Concentration exceeds guidelines/standards

NR-No Result
* - Contaminants also found in blanks
All units in parts per billion (ppb)
TICs-Tenatively Identified Compounds

TABLE 30
Target Compounds List
Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

VOCs	NYSDOH Maximum Contaminant Levels (ug/l)	RW-5	RW-6	RW-8	RW-9	RW-13	RW-1	RW-11
acetone		NR	NR	NR	NR	NR	12	NR
siloxane		30 *	29 *	6 *	206 *	70 *	12 *	106 *
2-butanone		NR	NR	NR	1	1	NR	NR
di-n-butylphthalate		NR	NR	NR	NR	NR	NR	NR
MTBE	50	NR	NR	NR	NR	NR	12	0.5
TICs		NR	NR	NR	NR	NR	9 unknown	NR

Concentration exceeds guidelines/standards

NR-No Result
* - Contaminants also found in blanks
All units in parts per billion (ppb)
TICs-Tenatively Identified Compounds

TABLE 31
Target Compounds List
Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

SVOCs	NYSDOH Maximum Contaminant Levels (ug/l)	RW-15	RW-2	RW-22	RW-19	RW-18
di-n-butylphthalate		NR	0.5	NR	0.7	1
bis(2-ethylhexyl)phthalate		NR	4	NR	NR	NR
TICs		Yes*	NR	Yes*	20 unknown	Yes*

NR-No Result
* - Contaminants also found in blanks
All units in parts per billion (ppb)
TICs-Tenatively Identified Compounds

TABLE 31
Target Compounds List
Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

SVOCs	NYSDOH Maximum Contaminant Levels (ug/l)	RW-16	RW-17	RW-24	RW-7	RW-9
di-n-butylphthalate		NR	NR	NR	NR	NR
bis(2-ethylhexyl)phthalate		NR	NR	NR	NR	NR
TICs		Yes*	Yes*	50 unknown	3 unknown	11 unknown

NR-No Result
* - Contaminants also found in blanks
All units in parts per billion (ppb)
TICs-Tenatively Identified Compounds

TABLE 31
Target Compounds List
Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

SVOCs	NYSDOH Maximum Contaminant Levels (ug/l)	RW-13	RW-20	RW-21	RW-23	RW-1
di-n-butylphthalate		NR	NR	NR	2	0.8
bis(2-ethylhexyl)phthalate		1 *	NR	0.9	NR	NR
TICs		NR	24 unknown	37	37 unknown	NR

NR-No Result
* - Contaminants also found in blanks
All units in parts per billion (ppb)
TICs-Tenatively Identified Compounds

TABLE 32
Target Compounds List
Pesticides/PCBs
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

Pest./PCBs	NYSDOH Maximum Contaminant Levels (ug/L)	RW-19	RW-24
Endosulfan	2	0.034	0.043

All units in parts per billion (ppb)

TABLE 33
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

Inorganics	NYSDOH Maximum Contaminant Levels (ug/L)	RW-15	RW-2	RW-22	RW-19	RW-4	RW-18	RW-14
Calcium		58,200	63,200	50,500	36,100	37,200	41,700	NR
Copper	1	NR	NR	NR	NR	34.6	NR	NR
Fe+Mn	500	NR	NR	NR	NR	NR	NR	NR
Iron	300	NR	NR	NR	NR	NR	NR	NR
Lead	15	NR	NR	NR	NR	NR	NR	NR
Magnesium		13,500	10,500	11,800	7,710	6,280	6,200	NR
Manganese	300	9.8	NR	130	NR	NR	NR	NR
Potassium		NR	NR	NR	NR	768	NR	NR
Selenium	10	NR	NR	NR	NR	NR	6	NR
Sodium	20,000	36,200	40,200	16,300	7,410	NR	7,120	38,300
Zinc	5000	NR	NR	NR	NR	NR	NR	NR

Concentration exceeds guidelines/standards

NR-No Result

* - Contaminants also found in blanks

All units in parts per billion (ppb)

TABLE 33
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

Inorganics	NYSDOH Maximum Contaminant Levels (ug/L)	RW-12	RW-10	RW-3	RW-16	RW-17	RW-24	RW-7
Calcium		73,200	73,200	70,500	71,900	NR	94,300	NR
Copper	1	NR	514	NR	39.4	NR	39.2	NR
Fe+Mn	500	NR	563	NR	NR	NR	NR	NR
Iron	300	NR	101	162	NR	NR	NR	NR
Lead	15	NR	NR	NR	16.5	NR	4.5	NR
Magnesium		17,400	20,600	19,200	11,200	NR	17,300	NR
Manganese	300	NR	446	209	NR	NR	NR	NR
Potassium		NR	NR	NR	NR	NR	NR	NR
Selenium	10	NR	NR	NR	NR	NR	NR	NR
Sodium	20,000	18,800	31,400	30,000	16,000	139,000 *	39,600	138,000
Zinc	5000	NR	NR	419	118	147	NR	NR

Concentration exceeds guidelines/standards

NR-No Result

* - Contaminants also found in blanks

All units in parts per billion (ppb)

TABLE 33
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

Inorganics	NYSDOH Maximum Contaminant Levels (ug/L)	RW-5	DOH	RW-6	RW-8	RW-9	RW-13	RW-20	RW-21
Calcium		79,600	NR	NR	50,800	70,000	NR	NR	11,300
Copper	1	NR	NR	NR	NR	NR	NR	NR	NR
Fe+Mn	500	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	NR	355	NR	NR	341	NR	NR	NR
Lead	15	25.9	NR	NR	NR	NR	NR	NR	3.6
Magnesium		23,600	NR	NR	8,820	18,500	NR	NR	NR
Manganese	300	139	338	44.3	NR	1560	NR	NR	28.1
Potassium		NR	NR	NR	NR	NR	NR	NR	NR
Selenium	10	NR	NR	NR	NR	NR	NR	NR	NR
Sodium	20,000	31,600	29,500	62,200	NR	17,700	121,000	94,700	62,900
Zinc	5000	NR	NR	NR	NR	NR	NR	NR	NR

Concentration exceeds guidelines/standards

NR-No Result

* - Contaminants also found in blanks

All units in parts per billion (ppb)

TABLE 33
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Residential Well Sampling
August-October, 2000

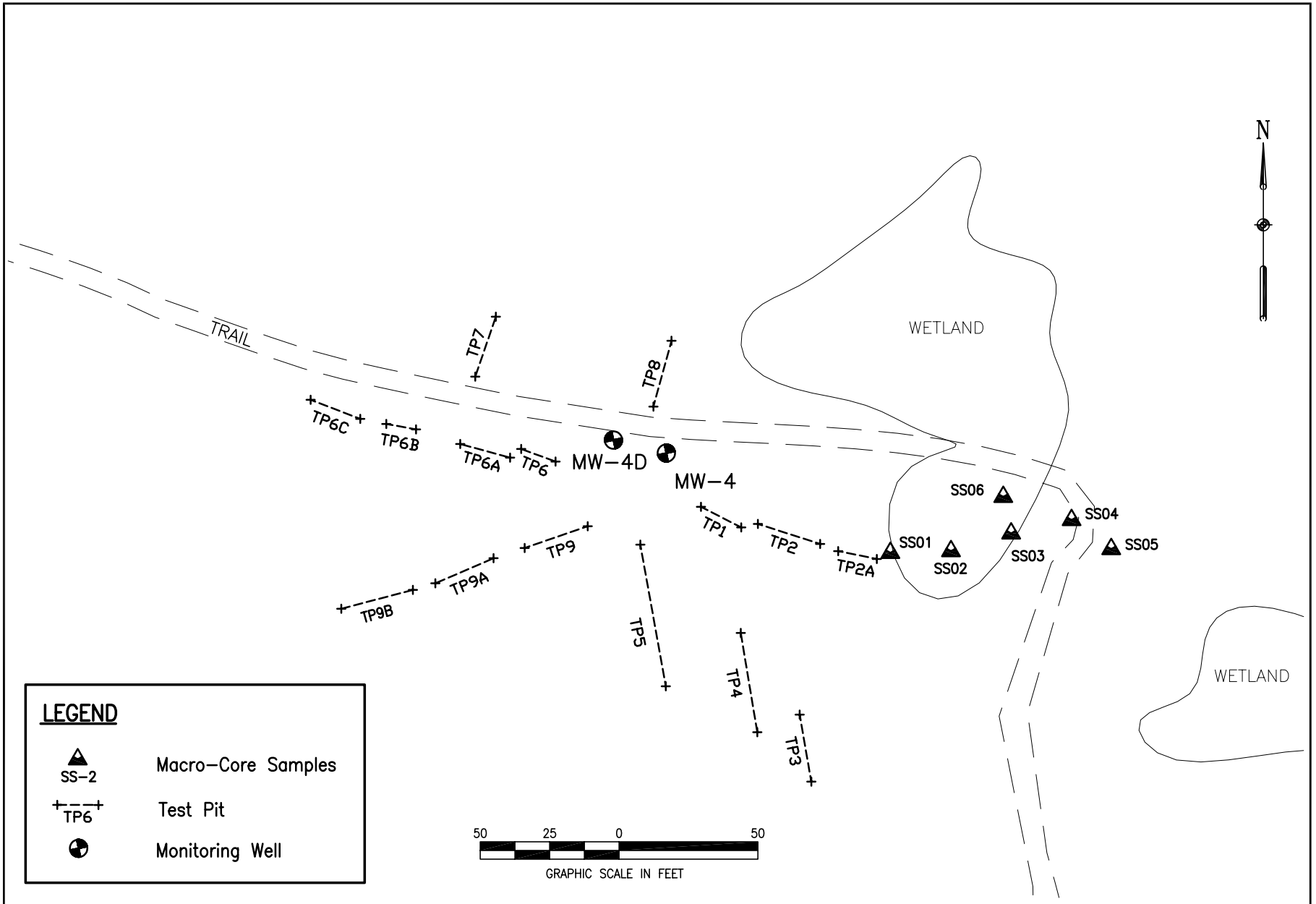
Inorganics	NYSDOH Maximum Contaminant Levels (ug/L)	RW-23	RW-1	RW-11
Calcium		42,000	56,800	38,900
Copper	1	NR	NR	NR
Fe+Mn	500	NR	NR	NR
Iron	300	NR	NR	NR
Lead	15	NR	6.6	NR
Magnesium		9,930	9,550	7,000
Manganese	300	51.9	275	NR
Potassium		NR	NR	NR
Selenium	10	NR	NR	NR
Sodium	20,000	10,600	32,200	33,500
Zinc	5000	NR	64	NR

Concentration exceeds guidelines/standards

NR-No Result

* - Contaminants also found in blanks

All units in parts per billion (ppb)



EA ENGINEERING, P.C. AND IT'S AFFILIATE EA SCIENCE AND TECHNOLOGY	MAYER LANDFILL SITE (3-36-027) BLOOMING GROVE, NEW YORK	FIGURE 3 TEST PIT AND MACRO-CORE SAMPLING LOCATIONS	DESIGNED BY LJW	DRAWN BY LJW	DATE 12-19-07	PROJECT NO. 14474.03
			CHECKED BY JF	PROJECT MGR. DWE	SCALE 1" = 50'	FIGURE 3

F:\Projects\Syracuse\NYSDEC\1447403 - Mayer Landfill\Basis of Design\Fig3_SAMPLES.dwg, 12/19/2007 4:12:25 PM

Table 3
Summary of Volatile Organic Compounds (VOCs) in Test Pit Groundwater Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8260	Sample ID	MAYER-TP-02W		MAYER-TP-09W		RINSE BLANK		TB01		TB-02		TB-03		NYSDEC Ambient Water Quality Standard
	Sample Type	Groundwater		Groundwater		Rinse Blank		Trip Blank		Trip Blank		Trip Blank		
	Sample Date	7/18/2007		7/18/2007		7/18/2007		7/17/2007		7/18/2007		7/18/2007		
Benzene	ug/L		U	**780**			U		U		U		U	0.7
Chlorobenzene	ug/L		U	**44**	J		U		U		U		U	5
Ethylbenzene	ug/L	**2300**		**290**			U		U		U		U	5
m&p-Xylenes	ug/L	**9000**		**310**			U		U		U		U	5
Methylene chloride	ug/L		U		U		U		U	4.5	J	2.6	J	5
o-Xylene	ug/L	**3200**		**110**			U		U		U		U	5
Styrene	ug/L		U	**65**	J		U		U		U		U	NA
Toluene	ug/L	**310000**		**480**			U		U	2.1			U	5

Notes:
All analytical data results provided by Hampton Clarke-Veritech Laboratory.
Only parameters that had at least oe deteection from the data set are shown.
Bold values indicates that the analyted was detected above the NYSDEC AWQS
EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.
U = Analyte was analyzed for but was not detected above the sample reporting limit.

Table 4
Summary of Semi-Volatile Organic Compounds (SVOCs) in Test Pit Groundwater Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8270	Sample ID	MAYER-TP-02W		MAYER-TP-09W		RINSE BLANK		NYSDEC Ambient Water Quality Standard
	Sample Type	Groundwater		Groundwater		Rinse Blank		
	Sample Date	7/18/2007		7/18/2007		7/18/2007		
2-Methylnaphthalene	ug/L	**380**			U		U	50
2-Methylphenol	ug/L	**120**	J		U		U	5
3&4-Methylphenol	ug/L	**250**			U		U	50
Acenaphthene	ug/L	**220**		**72**	J		U	20
Acenaphthylene	ug/L	**54**	J		U		U	20
Anthracene	ug/L	**250**			U		U	50
Benzo[a]anthracene	ug/L	**200**			U		U	0.002
Benzo[a]pyrene	ug/L	**170**	J		U		U	0.002(ND)
Benzo[b]fluoranthene	ug/L	**180**			U		U	0.002
Benzo[g,h,i]perylene	ug/L	**94**	J		U		U	5
Benzo[k]fluoranthene	ug/L	**88**	J		U		U	0.002
Bis(2-Ethylhexyl)phthalate	ug/L	**190**			U		U	50
Butylbenzylphthalate	ug/L	**2200**			U		U	50
Carbazole	ug/L	200		100	J		U	---
Chrysene	ug/L	**180**			U		U	0.002
Dibenzo[a,h]anthracene	ug/L	24	J		U		U	50
Dibenzofuran	ug/L	**170**			U		U	5
Diethylphthalate	ug/L	44	J		U		U	50
Di-n-butylphthalate	ug/L	**200**			U		U	50
Fluoranthene	ug/L	**610**			U		U	50
Fluorene	ug/L	**250**		**61**	J		U	50
Indeno[1,2,3-cd]pyrene	ug/L	**88**	J		U		U	0.002
Naphthalene	ug/L	**2300**		**1700**			U	10
Phenanthrene	ug/L	**1000**		**150**	J		U	50
Pyrene	ug/L	**600**			U		U	50

Notes:
All analytical data results provided by Hampton Clarke-Veritech Laboratory.
Only parameters that had at least oe deteection from the data set are shown.
Bold values indicates that the analyted was detected above the NYSDEC AWQS
EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.
U = Analyte was analyzed for but was not detected above the sample reporting limit.

Table 5
Summary of Metals in Test Pit Groundwater Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 6010/7470	Sample ID	MAYER-TP-02W		MAYER-TP-09W		RINSE BLANK		NYSDEC Ambient Water Quality Standard
	Sample Type	Groundwater		Groundwater		Rinse Blank		
	Sample Date	7/18/2007		7/18/2007		7/18/2007		
Mercury	ug/L	**1**		**6.2**			U	0.7
Aluminum	ug/L	84000		72000			U	---
Arsenic	ug/L	**46**		**38**			U	25
Barium	ug/L	770		590			U	1000
Cadmium	ug/L	**11**		**7.9**			U	5
Calcium	ug/L	140000		130000			U	---
Chromium	ug/L	**110**		**100**			U	50
Cobalt	ug/L	72		51			U	---
Copper	ug/L	**290**		**220**			U	200
Iron	ug/L	**140000**		**180000**			U	300
Lead	ug/L	**320**		**700**			U	25
Magnesium	ug/L	92000		38000			U	---
Manganese	ug/L	**5200**		**6200**			U	300
Nickel	ug/L	**210**		**610**			U	100
Potassium	ug/L	91000		29000			U	---
Sodium	ug/L	**350000**		**60000**			U	20000
Vanadium	ug/L	140		140			U	---
Zinc	ug/L	1500		1800			U	---

Notes:

All analytical data results provided by Hampton Clarke-Veritech Laboratory.

Only parameters that had at least oe deteection from the data set are shown.

Bold values indicates that the analyted was detected above the NYSDEC AWQS

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.

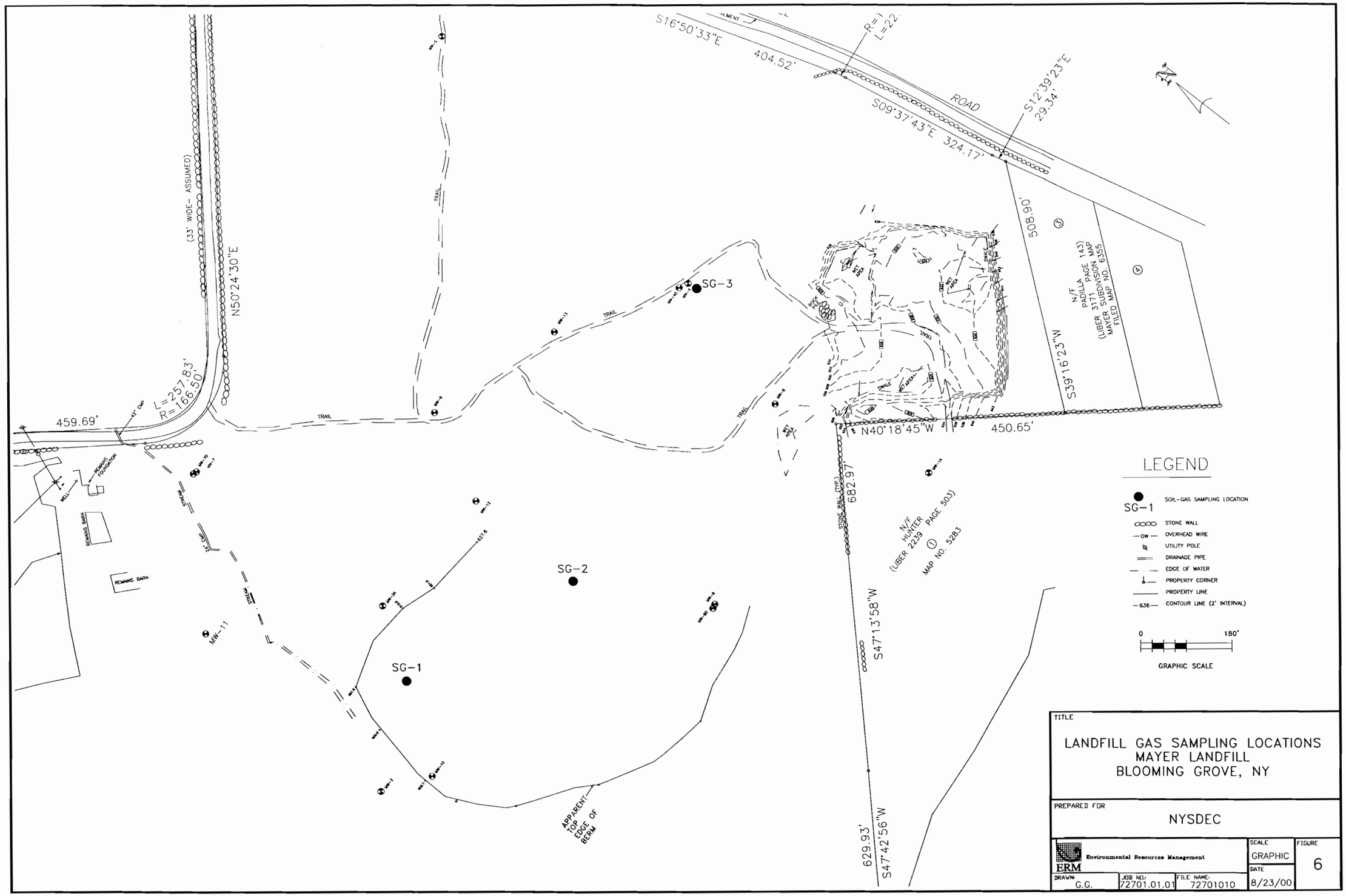
U = Analyte was analyzed for but was not detected above the sample reporting limit.

Table 6
Summary of Pesticides in Test Pit Groundwater Samples Collected July 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 608	Sample ID	MAYER-TP-02W		MAYER-TP-09W		RINSE BLANK		NYSDEC Ambient Water Quality Standard
	Sample Type	Groundwater		Groundwater		Rinse Blank		
	Sample Date	7/18/2007		7/18/2007		7/18/2007		
beta-BHC	ug/L	**0.47**			U		U	ND (<0.05)
Gamma-BHC	ug/L	**0.076**			U		U	ND (<0.05)
p,p'-DDD	ug/L	**0.54**	D		U		U	ND (<0.01)
p,p'-DDE	ug/L	**0.088**			U		U	ND (<0.01)

Notes:
All analytical data results provided by Hampton Clarke-Veritech Laboratory.
Only parameters that had at least oe deteection from the data set are shown.
Bold values indicates that the analyted was detected above the NYSDEC AWQS
EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
J = Analyte was positiviely identified; the associated numerical value is the approximate concentration of the analyte in the sample.
U = Analyte was analyzed for but was not detected above the sample reporting limit.
D = Component identified using dilution.

APPENDIX A Exhibit 5
SOIL VAPOR DATA PACKAGE



TITLE

LANDFILL GAS SAMPLING LOCATIONS
MAYER LANDFILL
BLOOMING GROVE, NY

PREPARED FOR

NYSDEC

ERM Environmental Resources Management			SCALE: GRAPHIC	FIGURE: 6
DRAWN: G.G.	JOB NO.: 72701.01.01	FILE NAME: 72701010	DATE: 8/23/00	

Attachment 1

Laboratory Report
Results in Parts Per Million (ppm)
Analysis Completed: December 15, 1998

Project No. EM1159

In this analysis three EMFLUX samples were analyzed under the requirements of EPA Method 8015B using an SRI 8610 Gas Chromatograph equipped with a thermal desorber, a 105 meter x 0.53 mm i.d. Rtx - 502.2 column, and a flame ionization detector. The Gas Chromatograph was held at subambient temperatures (<20 degrees C) for the analysis.

SAMPLE NO.	1	2	3
Methane	12,000	20,000	2,500

Reported Quantitation Level = 2,010 ppm
U = Below Reported Quantitation Level
Samples diluted by factor of 2,010

Attachment 2

Laboratory Report
VOC Survey

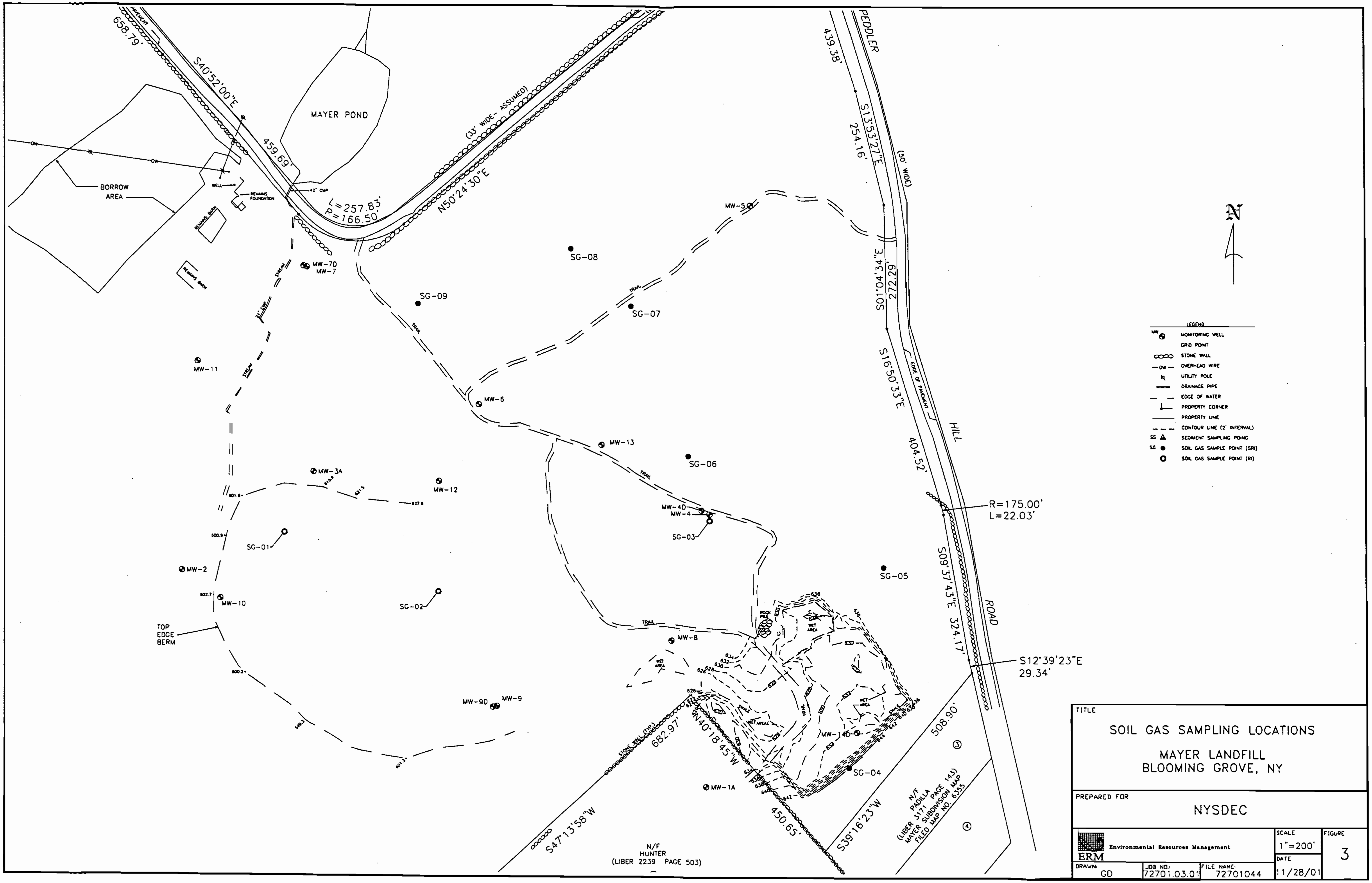
MARYLAND SPECTRAL SERVICES, INC.

1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD MODIFIED 8260

CLIENT SAMPLE ID:	SG-1	SG-2	SG-3	TRIP-1	VBLK1216D1
	EM1159	EM1159	EM1159	EM1159	
LAB SAMPLE ID:	99121610	99121611	99121612	99121613	METHOD BLANK
RECEIVED DATE:	12/16/99	12/16/99	12/16/99	12/16/99	
ANALYSIS DATE:	12/16/99	12/16/99	12/16/99	12/16/99	12/16/99
FILE NAME:	121610	121611	121612	121613	1216VBLKD1
INSTRUMENT ID:	MSD	MSD	MSD	MSD	MSD
UNITS:	NG/TRAP	NG/TRAP	NG/TRAP	NG/TRAP	NG/TRAP
VOLATILE COMPOUNDS					
Benzene	184	1250	38	39	25 U
Bromodichloromethane	25 U	25 U	25 U	25 U	25 U
Bromoform	25 U	25 U	25 U	25 U	25 U
Bromomethane	50 U	50 U	50 U	50 U	50 U
2-Butanone	50 U	2580	50 U	50 U	50 U
Carbon Tetrachloride	25 U	25 U	25 U	25 U	25 U
Chlorobenzene	37	1760	25 U	25 U	25 U
Chloroethane	1090	745	50 U	50 U	50 U
Chloroform	25 U	25 U	25 U	25 U	25 U
Chloromethane	760	1900	182	50 U	50 U
Dibromochloromethane	25 U	25 U	25 U	25 U	25 U
1,1-Dichloroethane	29	25 U	25 U	25 U	25 U
1,2-Dichloroethane	25 U	57	25 U	25 U	25 U
1,1-Dichloroethene	25 U	25 U	25 U	25 U	25 U
1,2-Dichloroethene (cis)	25 U	1310	25 U	25 U	25 U
1,2-Dichloroethene (trans)	25 U	107	25 U	25 U	25 U
1,2-Dichloropropane	25 U	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene	25 U	25 U	25 U	25 U	25 U
trans-1,3-Dichloropropene	25 U	25 U	25 U	25 U	25 U
Ethylbenzene	25 U	8200	25 U	25 U	25 U
2-Hexanone	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-Pentanone	50 U	50 U	50 U	50 U	50 U
Styrene	25 U	486	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane	25 U	25 U	25 U	25 U	25 U
Tetrachloroethene	25 U	323	25 U	25 U	25 U
Toluene	45	2030	25 U	25 U	25 U
1,1,1-Trichloroethane	25 U	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane	25 U	25 U	25 U	25 U	25 U
Trichloroethene	25 U	96	25 U	25 U	25 U
1,2,4-Trimethylbenzene	25 U	2460	25 U	25 U	25 U
1,3,5-Trimethylbenzene	72	4820	25 U	25 U	25 U
Vinyl Chloride	50 U	1860	50 U	50 U	50 U
Xylenes (Total)	417	8550	69	25 U	25 U

B - Detected in lab blank. U - Below reported quantitation level. J - Estimated value.



MAYER POND
BORROW AREA
(33' WIDE- ASSUMED)
PEDDLER HILL ROAD
(50' WIDE)
658.79'
S40°52'00"E
459.69'
L=257.83'
R=166.50'
N50°24'30"E
439.38'
S13°53'27"E
254.16'
S01°04'34"E
272.29'
S16°50'33"E
404.52'
EDGE OF PAVEMENT
R=175.00'
L=22.03'
S09°37'43"E 324.17'
S12°39'23"E
29.34'
508.90'
S39°16'23"W
450.65'
N40°18'45"W
682.97'
S47°13'58"W
STONE WALL (TYP.)
N/F
HUNTER
(LIBER 2239 PAGE 503)
N/F
PADILLA
(LIBER 3171 PAGE 143)
MAYER SUBDIVISION MAP
FILED MAP NO. 6355
TOP EDGE BERM
STREAM
TRAIL
WET AREA
ROCK PILE
MW-1A
MW-1D
MW-2
MW-3A
MW-4
MW-4D
MW-5
MW-6
MW-7
MW-7D
MW-8
MW-9
MW-9D
MW-10
MW-11
MW-12
MW-13
SG-01
SG-02
SG-03
SG-04
SG-05
SG-06
SG-07
SG-08
SG-09
N
LEGEND
MONITORING WELL
GRID POINT
STONE WALL
OVERHEAD WIRE
UTILITY POLE
DRAINAGE PIPE
EDGE OF WATER
PROPERTY CORNER
PROPERTY LINE
CONTOUR LINE (2' INTERVAL)
SEDIMENT SAMPLING POING
SOIL GAS SAMPLE POINT (SRI)
SOIL GAS SAMPLE POINT (RI)
TITLE
SOIL GAS SAMPLING LOCATIONS
MAYER LANDFILL
BLOOMING GROVE, NY
PREPARED FOR
NYSDEC
ERM Environmental Resources Management
SCALE 1"=200'
FIGURE 3
DATE 11/28/01
DRAWN: GD
JOB NO.: 72701.03.01
FILE NAME: 72701044

TABLE 1
Volatile Organic Compounds and Methane
Mayer Landfill, Blooming Grove, NY
Soil Gas Sampling August, 2001

	DAR-1 (Air Guide-1)		SG04					SG05					SG06				
	SGC ug/m3	AGC ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3
Methane			0.8	UJ	-	-	-	0.8	UJ	-	-	-	0.8	UJ	-	-	-
Dichlorodifluoromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Chloromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Vinyl Chloride			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Bromomethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Chloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Trichlorofluoromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Freon TF			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,1-Dichloroethene			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
Methylene Chloride	NA	NA	0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
1,1-Dichloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
cis-1,2-Dichloroethene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Chloroform			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,1,1-Trichloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Carbon Tetrachloride			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Benzene	1300	0.13	0.54		3.8E-08	3.3E-04	0.008	0.71		5.0E-08	4.4E-04	0.011	0.72		5.1E-08	4.4E-04	0.011
1,2-Dichloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Trichloroethene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,2-Dichloropropane			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
cis-1,3-Dichloropropene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Toluene	37000	400	5.3		4.4E-07	0.004	0.096	4.8		4.0E-07	0.003	0.087	5.4		4.5E-07	0.004	0.098
trans-1,3-Dichloropropene			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
1,1,2-Trichloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Tetrachloroethene	1000	1	5.6		8.4E-07	0.007	0.183	6.6		9.9E-07	0.009	0.216	12		1.8E-06	0.016	0.392
Chlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Ethylbenzene	54000	1000	1.2		1.1E-07	0.001	0.025	1.3		1.2E-07	0.001	0.027	1.1		1.1E-07	0.001	0.023
Xylene (m,p)	4300	700	5.1		4.9E-07	0.004	0.107	4.7		4.5E-07	0.004	0.098	4.7		4.5E-07	0.004	0.098
Styrene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Xylene (o)	4300	700	1.6		1.5E-07	0.001	0.033	1.2		1.1E-07	0.001	0.025	1.2		1.1E-07	0.001	0.025
1,1,2,2-Tetrachloroethane			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
1,3-Dichlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,4-Dichlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-

TABLE 1
Volatile Organic Compounds and Methane
Mayer Landfill, Blooming Grove, NY
Soil Gas Sampling August, 2001

	DAR-1 (Air Guide-1)		SG04					SG05					SG06				
	SGC ug/m3	AGC ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3
1,2-Dichlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,2,4-Trichlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Hexachlorobutadiene			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
1,3,5-Trimethylbenzene	NA	290	0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,2,4-Trimethylbenzene	NA	290	2.6		2.8E-07	0.002	0.062	2.7		2.9E-07	0.003	0.064	2.2		2.4E-07	0.002	0.052
Dichlorotetrafluoroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,2-Dibromoethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,3-Butadiene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Carbon Disulfide			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Acetone	180000	28000	3.5		1.8E-07	0.002	0.040	12		6.3E-07	0.005	0.137	0.87		4.6E-08	0.000	0.010
Isopropyl Alcohol			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Methyl tert-Butyl Ether			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Cyclohexane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
n-Heptane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Dibromochloromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
n-Hexane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Tetrahydrofuran			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Methyl Ethyl Ketone	59000	1000	1.6		1.0E-07	0.001	0.023	2.2		1.4E-07	0.001	0.031	0.5	U	-	-	-
1,4-Dioxane			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
Methyl Isobutyl Ketone	31000	490	0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Methyl Butyl Ketone	4100	48	0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Bromoform			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Bromodichloromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
trans-1,2-Dichloroethene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
4-Ethyltoluene	NA	NA	0.86		9.3E-08	0.001	0.020	0.86		9.3E-08	0.001	0.020	0.58		6.3E-08	0.001	0.014
3-Chloropropene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
2,2,4-Trimethylpentane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Bromoethene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
2-Chlorotoluene	NA	NA	0.5	U	-	-	-	0.5	U	-	-	-	0.52		5.9E-08	0.001	0.013

Ca=Maximum Actual Annual Impact
Cp=Maximum Potential Annual Impact
Cst=Maximum Short-Term Impact

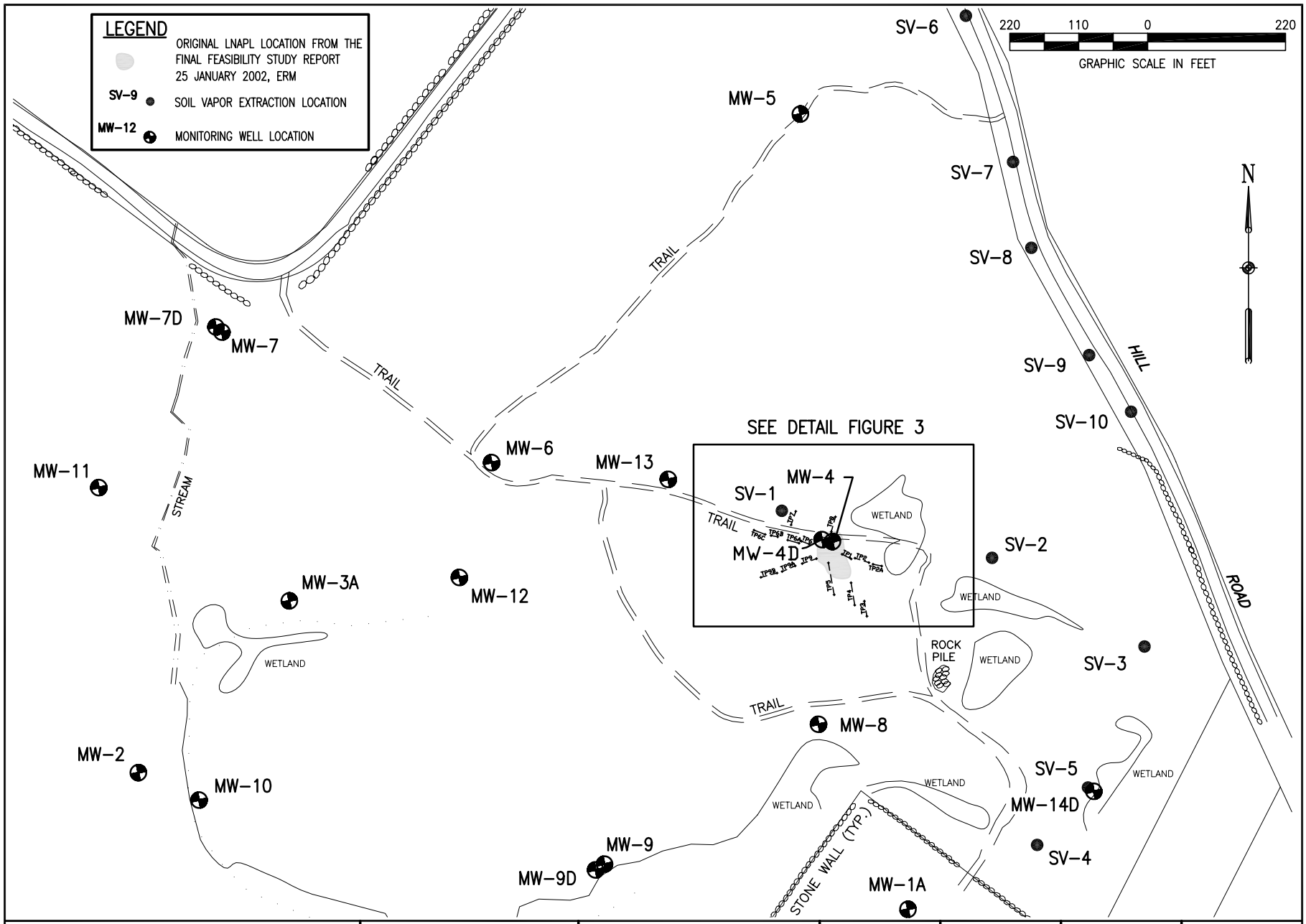
TABLE 1
Volatile Organic Compounds and Methane
Mayer Landfill, Blooming Grove, NY
Soil Gas Sampling August, 2001

	DAR-1 (Air Guide-1)		SG07					SG08					SG09				
	SGC ug/m3	AGC ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3
Methane			0.8	UJ	-	-	-	0.8	UJ	-	-	-	0.8	UJ	-	-	-
Dichlorodifluoromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Chloromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Vinyl Chloride			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Bromomethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Chloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Trichlorofluoromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Freon TF			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,1-Dichloroethene			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
Methylene Chloride	NA	NA	0.79	J	6.0E-08	0.001	0.013	0.9	J	6.9E-08	0.001	0.015	0.74	J	5.7E-08	5.0E-04	0.012
1,1-Dichloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
cis-1,2-Dichloroethene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Chloroform			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,1,1-Trichloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Carbon Tetrachloride			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Benzene	1300	0.13	0.62		4.4E-08	3.8E-04	0.010	0.5	U	-	-	-	0.56		3.9E-08	3.4E-04	0.009
1,2-Dichloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Trichloroethene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,2-Dichloropropane			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
cis-1,3-Dichloropropene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Toluene	37000	400	4.3		3.6E-07	0.003	0.078	6.6		5.5E-07	0.005	0.120	3.2		2.7E-07	0.002	0.058
trans-1,3-Dichloropropene			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
1,1,2-Trichloroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Tetrachloroethene	1000	1	6.4		9.6E-07	0.008	0.209	9.6		1.4E-06	0.013	0.314	9.1		1.4E-06	0.012	0.297
Chlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Ethylbenzene	54000	1000	0.82		7.8E-08	0.001	0.017	1.5		1.4E-07	0.001	0.031	1.3		1.2E-07	0.001	0.027
Xylene (m,p)	4300	700	3.6		3.4E-07	0.003	0.075	6.7		6.4E-07	0.006	0.140	6.7		6.4E-07	0.006	0.140
Styrene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Xylene (o)	4300	700	0.94		9.0E-08	0.001	0.020	1.8		1.7E-07	0.002	0.038	2.2		2.1E-07	0.002	0.046
1,1,2,2-Tetrachloroethane			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
1,3-Dichlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,4-Dichlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-

TABLE 1
Volatile Organic Compounds and Methane
Mayer Landfill, Blooming Grove, NY
Soil Gas Sampling August, 2001

	DAR-1 (Air Guide-1)		SG07					SG08					SG09				
	SGC ug/m3	AGC ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3	ppbV		Ca ug/m3	Cp ug/m3	Cst ug/m3
1,2-Dichlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,2,4-Trichlorobenzene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Hexachlorobutadiene			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
1,3,5-Trimethylbenzene	NA	290	0.5	U	-	-	-	0.74		8.0E-08	0.001	0.018	0.5	U	-	-	-
1,2,4-Trimethylbenzene	NA	290	2.4		2.6E-07	0.002	0.057	4.4		4.8E-07	0.004	0.104	2.5		2.7E-07	0.002	0.059
Dichlorotetrafluoroethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,2-Dibromoethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
1,3-Butadiene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Carbon Disulfide			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Acetone	180000	28000	35		1.8E-06	0.016	0.401	13		6.8E-07	0.006	0.149	1.4		7.3E-08	0.001	0.016
Isopropyl Alcohol			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Methyl tert-Butyl Ether			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Cyclohexane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
n-Heptane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Dibromochloromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
n-Hexane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Tetrahydrofuran			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Methyl Ethyl Ketone	59000	1000	3.1		2.0E-07	0.002	0.044	2.3		1.5E-07	0.001	0.033	0.5	U	-	-	-
1,4-Dioxane			0.5	UJ	-	-	-	0.5	UJ	-	-	-	0.5	UJ	-	-	-
Methyl Isobutyl Ketone	31000	490	0.78		7.0E-08	0.001	0.015	0.5	U	-	-	-	0.5	U	-	-	-
Methyl Butyl Ketone	4100	48	2.9		2.6E-07	0.002	0.057	0.5	U	-	-	-	0.5	U	-	-	-
Bromoform			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Bromodichloromethane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
trans-1,2-Dichloroethene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
4-Ethyltoluene	NA	NA	0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
3-Chloropropene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
2,2,4-Trimethylpentane			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
Bromoethene			0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-
2-Chlorotoluene	NA	NA	0.5	U	-	-	-	0.5	U	-	-	-	0.5	U	-	-	-

Ca=Maximum Actual Annual Impact
Cp=Maximum Potential Annual Impact
Cst=Maximum Short-Term Impact



EA ENGINEERING, P.C. AND IT'S AFFILIATE EA SCIENCE AND TECHNOLOGY	MAYER LANDFILL SITE (3-36-027) BLOOMING GROVE, NEW YORK	FIGURE 2 GROUNDWATER MONITORING WELL AND SOIL VAPOR SAMPLING LOCATIONS	DESIGNED BY LJW	DRAWN BY LJW	DATE 12-19-07	PROJECT NO. 14474.03
			CHECKED BY JF	PROJECT MGR. DWE	SCALE 1" = 220'	FIGURE 2

F:\Projects\Syracuse\NYSDEC\1447403 - Mayer Landfill\Basis of Design\Fig2_MW SVE.dwg, 12/19/2007 4:10:50 PM

Table 20
Summary of Volatile Organic Compounds (VOCs) in Soil Vapor Samples Collected September 2007
Mayer Landfill Site (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method TO-15	Sample ID	3-36-027-SV-01		3-36-027-SV-02		3-36-027-SV-03		3-36-027-SV-04		3-36-027-SV-05	
	Lab ID	07B36992		07B36993		07B36994		07B36995		07B39637	
	Sample Depth										
	Sample Type	Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
	Sample Date	9/20/2007		9/20/2007		9/20/2007		9/20/2007		10/9/2007	
Acetone	(ug/m3)		U	**910**		**45**			U	**44**	
Benzene	(ug/m3)	**8400**	J	**21**		**26**		**90**		**5.5**	
Benzyl Chloride	(ug/m3)		U		U		U		U		U
Bromodichloromethane	(ug/m3)		U		U		U		U		U
Bromoform	(ug/m3)		UJ		UJ		UJ		UJ		U
Bromomethane	(ug/m3)		U		U		U		U		U
1,3- Butadiene	(ug/m3)		U		U		U		U		U
2- Butanone	(ug/m3)	**47**	J	**22**		**7.1**		**2.7**		**5.4**	
Carbon Disulfide	(ug/m3)	**320**	J	**1.8**		**1.1**		**41**		**9.2**	
Carbon Tetrachloride	(ug/m3)		U		U		U	**1.4**			U
Chlorobenzene	(ug/m3)	**6700**	J		U		U		U		U
Chloroethane	(ug/m3)	**110**	J		U		U		U		U
Chloroform	(ug/m3)		U		U		U		U	**47**	
Chloromethane	(ug/m3)		U		U		U	**2.5**		**0.27**	
Cyclohexane	(ug/m3)	**20000**	J	**7.7**		**0.89**		**54**			U
Dibromochloromethane	(ug/m3)		U		U		U		U		U
1,2- Dibromoethane	(ug/m3)		U		U		U		U		U
1,2- Dichlorobenzene	(ug/m3)		U		U		U		U		U
1,3- Dichlorobenzene	(ug/m3)		U	**12**		**10**		**13**		**1.2**	
1,4- Dichlorobenzene	(ug/m3)		U	**11**		**14**		**9.7**			U
Dichlorodifluoromethane	(ug/m3)	**1200**	J	**15**		**2.7**		**3**		**3.4**	
1,1- Dichloroethane	(ug/m3)	**15**	J		U		U		U		U
1,2- Dichloroethane	(ug/m3)		U		U		U		U		U
1,1- Dichloroethene	(ug/m3)		U		U		U		U		U
cis-1,2 Dichloroethene	(ug/m3)	**230**	J		U		U		U		U
trans-1,2 Dichloroethene	(ug/m3)	**46**	J		U		U		U		U
1,2- Dichloropropane	(ug/m3)		U		U		U		U		U
cis-1-3 Dichloropropene	(ug/m3)		U		U		U		U		U
trans-1,3 Dichloropropene	(ug/m3)		U		U		U		U		U
1,2- Dichlorotetrafluoroethane	(ug/m3)	**470**	J	**0.98**			U		U		U
Ethanol	(ug/m3)		U	**77**		**52**		**190**		**21**	
Ethyl Acetate	(ug/m3)		U		U		U		U		U
4- Ethyl Toluene	(ug/m3)	**450**	J	**10**		**11**		**8.8**		**0.88**	
Ethylbenzene	(ug/m3)	**220**	J	**17**		**15**		**12**		**6.1**	
n- Heptane	(ug/m3)	**27000**	J	**27**		**21**		**230**		**0.66**	
Hexachlorobutadiene	(ug/m3)		U		U		U		U		U
Hexane	(ug/m3)	**60000**	J	**27**		**9.6**		**680**		**1.4**	
2- Hexanone	(ug/m3)		U		U		U		U	**0.86**	
Isopropyl Alcohol	(ug/m3)	**62**	J	**9.8**		**4.9**		**5.7**		**10**	
Methyl Tert Butyl Ether	(ug/m3)		U		U		U		U		U
4- Methyl-2-Pentanone	(ug/m3)		U		U		U		U	**0.53**	
Methylene Chloride	(ug/m3)	**25**	J	**2.3**			U		U	**0.8**	
Propylene	(ug/m3)	**2400**	J		U		U		U	**6**	
Styrene	(ug/m3)	**26**	J	**1**		**0.94**		**0.94**			U
1,1,2,2- Tetrachloroethane	(ug/m3)		U		U		U		U		U
Tetrachloroethene	(ug/m3)	**84**	J	**2.2**		**2.3**		**3.3**		**2.8**	
Tetrahydrofuran	(ug/m3)		U		U		U		U	**0.32**	
Toluene	(ug/m3)	**310**	J	**67**		**61**		**84**		**25**	
1,2,4- Trichlorobenzene	(ug/m3)		UJ		UJ		UJ		UJ		U
1,1,1- Trichloroethane	(ug/m3)		U		U		U	**0.98**			U
1,1,2- Trichloroethane	(ug/m3)		U		U		U		U		U
Trichloroethene	(ug/m3)	**88**	J		U		U		U		U
Trichlorofluoromethane	(ug/m3)	**18**	J	**22**	J	**1.8**	J	**2.9**	J	**2.1**	
Trichlorotrifluoroethane	(ug/m3)		U		U		U	**2**			U
1,2,4- Trimethylbenzene	(ug/m3)	**2900**	J	**36**	J	**46**	J	**36**	J	**2.2**	
1,3,5- Trimethylbenzene	(ug/m3)	**1300**	J	**8.8**		**9.2**		**7.9**		**1.7**	
Vinyl Acetate	(ug/m3)		U		U		U		U		U
Vinyl Chloride	(ug/m3)	**1100**	J		U		U	**0.36**			U
o- Xylene	(ug/m3)	**140**	J	**22**		**21**		**18**		**8.2**	
m-p Xylenes	(ug/m3)	**6100**	J	**47**	J	**41**	J	**34**	J	**18**	

Notes:
All analytical data results provided by Con-Test Analytical Labs.
EPA = Environmental Protection Agency
U = Analyte detected below the method detection limit.
ug/m3 = micrograms per cubic meter
Bold values indicate that the analyte was detected.

Table 20
Summary of Volatile Organic Compounds (VOCs) in Soil Vapor Samples Collected September 2007
Mayer Landfill Site (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method TO-15	Sample ID	3-36-027-SV-06		3-36-027-SV-07		3-36-027-SV-08		3-36-027-SV-09		3-36-027-SV-10	
	Lab ID	07B36996		07B36997		07B36998		07B36999		07B37000	
	Sample Depth										
	Sample Type	Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
	Sample Date	9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007	
Acetone	(ug/m3)	**71**		**66**		**76**		**77**		**89**	
Benzene	(ug/m3)	**150**		**20**		**9.3**		**9.5**		**120**	
Benzyl Chloride	(ug/m3)		U		U		U		U		U
Bromodichloromethane	(ug/m3)		U		U		U		U		U
Bromoform	(ug/m3)		UJ		UJ		UJ		UJ		UJ
Bromomethane	(ug/m3)		U		U		U		U		U
1,3- Butadiene	(ug/m3)		U		U		U		U		U
2- Butanone	(ug/m3)	**3.7**		**4.8**		**3.5**		**4**		**7.4**	
Carbon Disulfide	(ug/m3)	**7.2**		**1.6**		**1.9**		**0.81**		**17**	
Carbon Tetrachloride	(ug/m3)	**1.1**			U	**0.63**			U	**1.3**	
Chlorobenzene	(ug/m3)		U		U		U		U		U
Chloroethane	(ug/m3)		U		U		U		U		U
Chloroform	(ug/m3)	**1.7**		**1.3**			U		U	**1.8**	
Chloromethane	(ug/m3)	**0.62**		**0.7**		**0.95**		**0.37**			U
Cyclohexane	(ug/m3)	**11**		**2.1**		**3.8**		**1.1**		**11**	
Dibromochloromethane	(ug/m3)		U		U		U		U		U
1,2- Dibromoethane	(ug/m3)		U		U		U		U		U
1,2- Dichlorobenzene	(ug/m3)		U		U		U		U		U
1,3- Dichlorobenzene	(ug/m3)	**2.8**		**7.1**		**2.2**		**2.8**		**4.2**	
1,4- Dichlorobenzene	(ug/m3)	**5.4**		**7.9**		**5.5**		**12**		**11**	
Dichlorodifluoromethane	(ug/m3)	**3**		**3**		**3.4**		**3.1**		**3.2**	
1,1- Dichloroethane	(ug/m3)		U		U		U		U		U
1,2- Dichloroethane	(ug/m3)		U		U		U		U		U
1,1- Dichloroethene	(ug/m3)		U		U		U		U		U
cis-1,2 Dichloroethene	(ug/m3)		U		U		U		U		U
trans-1,2 Dichloroethene	(ug/m3)		U		U		U		U		U
1,2- Dichloropropane	(ug/m3)		U		U		U		U		U
cis-1-3 Dichloropropene	(ug/m3)		U		U		U		U		U
trans-1,3 Dichloropropene	(ug/m3)		U		U		U		U		U
1,2- Dichlorotetrafluoroethane	(ug/m3)		U		U		U		U		U
Ethanol	(ug/m3)	**300**		**360**		**180**		**150**		**210**	
Ethyl Acetate	(ug/m3)		U	**4.3**			U	**5.5**			U
4- Ethyl Toluene	(ug/m3)	**7.2**		**8.3**		**4.9**		**11**		**9.9**	
Ethylbenzene	(ug/m3)	**27**		**14**		**8.2**		**22**		**21**	
n- Heptane	(ug/m3)	**99**		**14**		**7**		**3.6**		**91**	
Hexachlorobutadiene	(ug/m3)		U		U		U		U		U
Hexane	(ug/m3)	**160**		**22**		**53**		**3**		**170**	
2- Hexanone	(ug/m3)		U		U		U		U		U
Isopropyl Alcohol	(ug/m3)	**12**		**13**		**11**		**16**		**14**	
Methyl Tert Butyl Ether	(ug/m3)		U		U		U		U		U
4- Methyl-2-Pentanone	(ug/m3)		U	**3.1**		**1.9**		**2.5**			U
Methylene Chloride	(ug/m3)		U		U		U	**12**		**2.4**	
Propylene	(ug/m3)		U		U		U		U		U
Styrene	(ug/m3)	**0.94**		**1.3**		**0.6**		**1.9**		**1**	
1,1,2,2- Tetrachloroethane	(ug/m3)		U		U		U		U		U
Tetrachloroethene	(ug/m3)	**4.1**		**0.81**			U	**1.9**		**3.1**	
Tetrahydrofuran	(ug/m3)		U		U		U	**0.53**		**0.35**	
Toluene	(ug/m3)	**440**		**48**		**22**		**100**		**230**	
1,2,4- Trichlorobenzene	(ug/m3)		UJ		UJ		UJ		UJ		UJ
1,1,1- Trichloroethane	(ug/m3)	**0.87**			U		U		U	**0.76**	
1,1,2- Trichloroethane	(ug/m3)		U		U		U		U		U
Trichloroethene	(ug/m3)		U		U		U		U		U
Trichlorofluoromethane	(ug/m3)	**2.1**	J	**1.7**	J	**2.2**	J	**2.2**	J	**2.4**	J
Trichlorotrifluoroethane	(ug/m3)	**1.1**			U	**0.92**			U	**1.1**	
1,2,4- Trimethylbenzene	(ug/m3)	**19**	J	**35**	J	**21**	J	**44**	J	**42**	J
1,3,5- Trimethylbenzene	(ug/m3)	**5.5**		**8.2**		**4.6**		**9.9**		**9.5**	
Vinyl Acetate	(ug/m3)		U		U		U		U		U
Vinyl Chloride	(ug/m3)		U		U		U		U		U
o- Xylene	(ug/m3)	**27**		**23**		**14**		**32**		**30**	
m-p Xylenes	(ug/m3)	**72**	J	**43**	J	**27**	J	**67**	J	**63**	J

Notes:
All analytical data results provided by Con-Test Analytical Labs.
EPA = Environmental Protection Agency
U = Analyte detected below the method detection limit.
ug/m3 = micrograms per cubic meter
Bold values indicate that the analyte was detected.

Table 20
Summary of Volatile Organic Compounds (VOCs) in Soil Vapor Samples Collected September 2007
Mayer Landfill Site (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method TO-15	Sample ID	3-36-027-DUP01		3-36-027-DUP02	
	Lab ID	07B37001		07B39638	
	Sample Depth				
	Sample Type	Soil Vapor		Soil Vapor	
	Sample Date	9/20/2007		10/9/2007	
Acetone	(ug/m3)		U	**39**	
Benzene	(ug/m3)	**10000**	J	**5.6**	
Benzyl Chloride	(ug/m3)		U		U
Bromodichloromethane	(ug/m3)		U		U
Bromoform	(ug/m3)		U		U
Bromomethane	(ug/m3)		U		U
1,3- Butadiene	(ug/m3)		U		U
2- Butanone	(ug/m3)	**45**	J	**4.3**	
Carbon Disulfide	(ug/m3)	**350**	J	**9.6**	
Carbon Tetrachloride	(ug/m3)		U		U
Chlorobenzene	(ug/m3)	**6600**	J		U
Chloroethane	(ug/m3)	**120**	J		U
Chloroform	(ug/m3)		U	**48**	
Chloromethane	(ug/m3)		U	**0.21**	
Cyclohexane	(ug/m3)	**23000**	J		U
Dibromochloromethane	(ug/m3)		U		U
1,2- Dibromoethane	(ug/m3)		U		U
1,2- Dichlorobenzene	(ug/m3)		U	**1**	
1,3- Dichlorobenzene	(ug/m3)		U	**1.7**	
1,4- Dichlorobenzene	(ug/m3)		U	**0.9**	
Dichlorodifluoromethane	(ug/m3)	**1300**	J	**3.6**	
1,1- Dichloroethane	(ug/m3)	**16**	J		U
1,2- Dichloroethane	(ug/m3)		U		U
1,1- Dichloroethene	(ug/m3)		U		U
cis-1,2 Dichloroethene	(ug/m3)	**250**	J		U
trans-1,2 Dichloroethene	(ug/m3)	**52**	J		U
1,2- Dichloropropane	(ug/m3)		U		U
cis-1-3 Dichloropropene	(ug/m3)		U		U
trans-1,3 Dichloropropene	(ug/m3)		U		U
1,2- Dichlorotetrafluoroethane	(ug/m3)	**510**	J		U
Ethanol	(ug/m3)		U	**22**	
Ethyl Acetate	(ug/m3)		U		U
4- Ethyl Toluene	(ug/m3)	**330**	J	**0.98**	
Ethylbenzene	(ug/m3)	**220**	J	**6.3**	
n- Heptane	(ug/m3)	**30000**	J	**0.61**	
Hexachlorobutadiene	(ug/m3)		U		U
Hexane	(ug/m3)	**67000**	J	**1.3**	
2- Hexanone	(ug/m3)		U		U
Isopropyl Alcohol	(ug/m3)	**35**	J	**9.4**	
Methyl Tert Butyl Ether	(ug/m3)		U		U
4- Methyl-2-Pentanone	(ug/m3)		U	**0.45**	
Methylene Chloride	(ug/m3)	**17**	J	**0.66**	
Propylene	(ug/m3)	**2600**	J	**5.9**	
Styrene	(ug/m3)	**24**	J		U
1,1,2,2- Tetrachloroethane	(ug/m3)		U		U
Tetrachloroethene	(ug/m3)	**84**	J	**1.8**	
Tetrahydrofuran	(ug/m3)		U	**0.32**	
Toluene	(ug/m3)	**310**	J	**24**	
1,2,4- Trichlorobenzene	(ug/m3)		U		U
1,1,1- Trichloroethane	(ug/m3)		U		U
1,1,2- Trichloroethane	(ug/m3)		U		U
Trichloroethene	(ug/m3)	**95**	J		U
Trichlorofluoromethane	(ug/m3)	**18**	J	**2.1**	
Trichlorotrifluoroethane	(ug/m3)		U	**0.84**	
1,2,4- Trimethylbenzene	(ug/m3)	**2100**	J	**2.7**	
1,3,5- Trimethylbenzene	(ug/m3)	**1100**	J	**1.9**	
Vinyl Acetate	(ug/m3)		U		U
Vinyl Chloride	(ug/m3)	**1200**	J		U
o- Xylene	(ug/m3)	**130**	J	**8.3**	
m-p Xylenes	(ug/m3)	**5900**	J	**18**	

Notes:

All analytical data results provided by Con-Test Analytical Labs.

EPA = Environmental Protection Agency

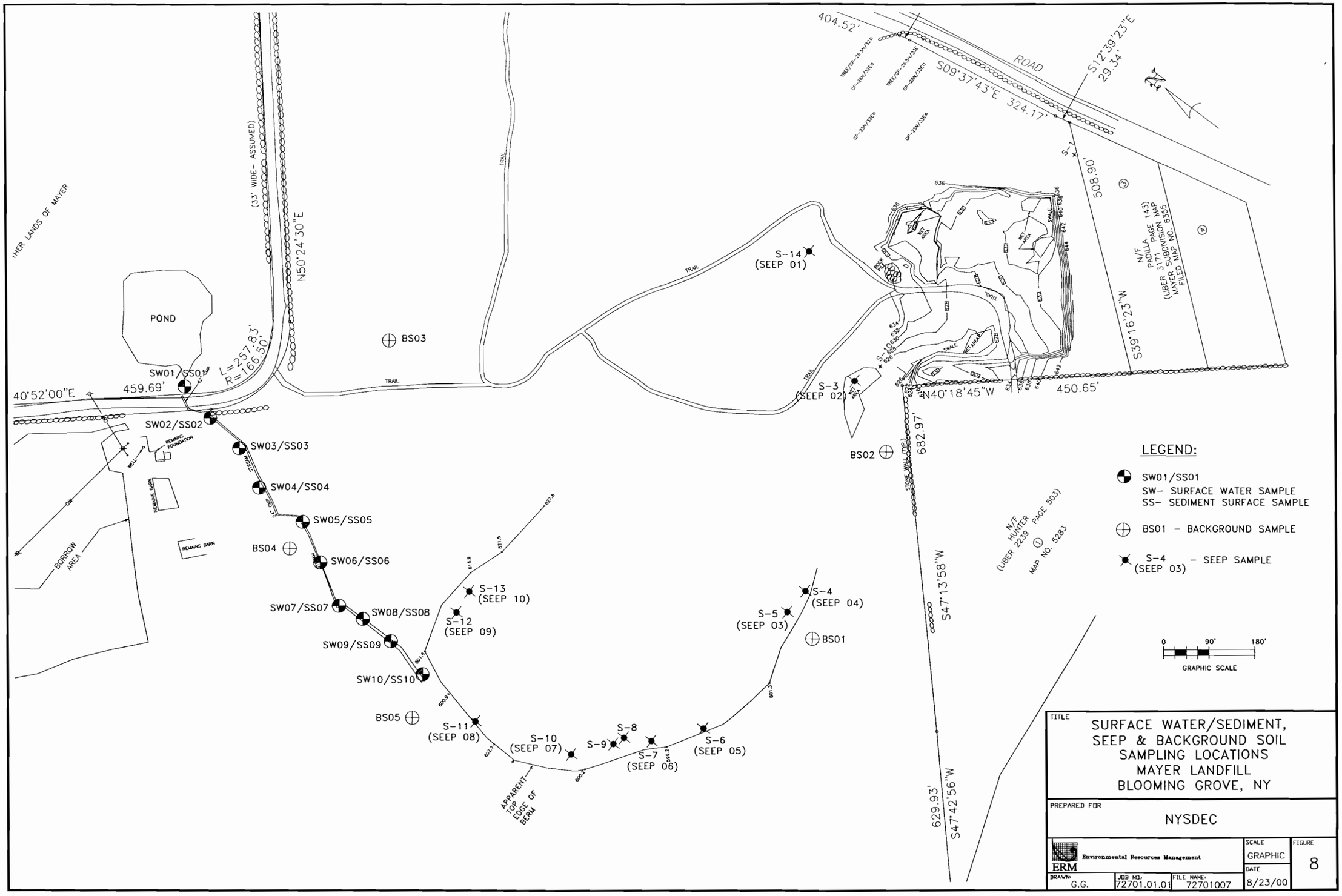
U = Analyte detected below the method detection limit.

ug/m3 = micrograms per cubic meter

Bold values indicate that the analyte was detected.

3-36-027-DUP01 was collected at 3-36-027-SV01, 3-36-027-DUP02 at 3-36-027-SV05

APPENDIX A Exhibit 6
SURFACE WATER DATA PACKAGE



TITLE

SURFACE WATER/SEDIMENT, SEEP & BACKGROUND SOIL SAMPLING LOCATIONS
MAYER LANDFILL
BLOOMING GROVE, NY

PREPARED FOR

NYSDEC

Environmental Resources Management
ERM

DRAWN	JOB NO.	FILE NAME	SCALE	DATE	FIGURE
G.G.	72701.01.01	72701007	GRAPHIC	8/23/00	8

TABLE 18
Target Compound List Volatile Organic Compounds
Mayer Landfill Blooming Grove, NY
Surface Water Sampling
June, 2000

ANALYTE	TOGS 1.1.1 Class C Ambient Water Quality Standards & Guidance Values (ug/L)	SW01 ug/l	DUP01600 ug/l dup of SW01	SW02 ug/l	SW03 ug/l	SW04 ug/l	SW05 ug/l	SW06 ug/l	SW07 ug/l	SW08 ug/l	SW09 ug/l	SW10 ug/l	FBSW060700 ug/l	TBSW060700 ug/l
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Vinyl Chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Methylene Chloride	200***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	**1 J**	10 U
Acetone		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	**1 J**	10 U
Carbon Disulfide		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
1,2-Dichloroethene (Total)		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Carbon Tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Trichloroethene	40***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	**3 J**	**4 J**	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Benzene	210****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
4-Methyl-2-Pentanone		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Tetrachloroethene	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Toluene	100****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Chlorobenzene	5****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Ethylbenzene	17****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Xylene (Total)	65****G	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U

Bolded: Detected Concentration
Exceeds Criteria
*** Protection for Human Consumption of Fish
**** Protection for Fish Propogation
G:Guidance

TABLE 19
Target Compound List Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Surface Water Samples
June, 2000

ANALYTE	TOGS 1.1.1 Class C Ambient Water Quality Standards & Guidance Values (ug/L)	SW01 ug/l	DUP01600 ug/l dup of SW01	SW02 ug/l	SW03 ug/l	SW04 ug/l	SW05 ug/l	SW06 ug/l	SW07 ug/l	SW08 ug/l	SW09 ug/l	SW10 ug/l
Phenol	1*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(-2-Chloroethyl)Ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	5****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	5****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	5****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	0.6***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethyphenol	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	1*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	13****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	1****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	1*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	4.7****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	0.45****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	1*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	1*	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	5.3****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	5*	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U

TABLE 19
Target Compound List Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Surface Water Samples
June, 2000

ANALYTE	TOGS 1.1.1 Class C Ambient Water Quality Standards & Guidance Values (ug/L)	SW01 ug/l	DUP01600 ug/l dup of SW01	SW02 ug/l	SW03 ug/l	SW04 ug/l	SW05 ug/l	SW06 ug/l	SW07 ug/l	SW08 ug/l	SW09 ug/l	SW10 ug/l
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	0.54****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.00003***	10 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	1*	25 U	25 U	25 U	25 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	5****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	3.8****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	4.6****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	0.03****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	0.6****	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	**1 J**	**2 J**
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.0012***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Bolded: Detected Concentration

Exceeds Criteria

* Aesthetic

*** Protection for Human Consumption of Fish

**** Protection for Fish Propogation

Table 20
Target Compound List Pesticides/PCBs
Mayer Landfill Blooming Grove, NY
Surface Water Samples
June, 2000

ANALYTE	TOGS 1.1.1 Class C Ambient Water Quality Standards & Guidance Values (ug/L)	SW01 ug/l	DUP01600 ug/l dup of SW01	SW02 ug/l	SW03 ug/l	SW04 ug/l	SW05 ug/l	SW06 ug/l	SW07 ug/l	SW08 ug/l	SW09 ug/l	SW10 ug/l
alpha-BHC	0.01	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.04	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.04	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.0002***	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.001***	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.0004***	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.009****	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.001***	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.000007***	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.36****	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	0.00008***	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan Sulfate		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.000011***	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methoxychlor		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Endrin Ketone		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin Aldehyde		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
alpha-Chlordane		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Toxaphene	0.005****	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Aroclor-1016+	0.000001***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221+	0.000001***	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Aroclor-1232+	0.000001***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242+	0.000001***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1248+	0.000001***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254+	0.000001***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260+	0.000001***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

ND: Non-Detectable

+: Applies to sum of these compounds

Bolded: Detected Concentration

Exceeds Criteria

*** Protection for Human Consumption of Fish

**** Protection for Fish Propogation

TABLE 21
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Surface Water Samples
June, 2000

ANALYTE	TOGS 1.1.1 Class C Ambient Water Quality Standards & & Guidance Values # (ug/l)	SW01 ug/l	SW01F ug/l FILTERED	SW02 ug/l	SW02F ug/l FILTERED	SW03 ug/l	SW03F ug/l FILTERED	SW04 ug/l	SW04F ug/l FILTERED	SW05 ug/l	SW05F ug/l FILTERED
Aluminum		160 B	31.8 B	127 B	32.6 B	93.4 B	12 U	76 B	12 U	70.5 B	12 U
Antimony		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Arsenic	150**	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Barium		21.8 B	20.5 B	21.3 B	48.5 B	21.4 B	40.5 B	21.9 B	28.4 B	22.2 B	40.8 B
Beryllium	11	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	1.35**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.25 B	0.2 U
Calcium		15500	15800	15100	15200	15600	15200	15800	15000	16000	14700
Chromium	46.8**	0.61 B	0.48 B	0.67 B	0.4 U	0.65 B	0.47 B	0.42 B	0.44 B	0.63 B	0.73 B
Cobalt	5	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
Copper	5.5**	1.5 B	1.2 B	1.4 B	0.86 B	1.9 B	0.63 B	0.92 B	0.88 B	0.88 B	0.62 B
Iron	300	629	231	623	211	547	163	565	166	526	166
Lead	2.0**	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Magnesium		3820 B	3810 B	3730 B	3730 B	4030 B	3770 B	3930 B	3760 B	4150 B	3800 B
Manganese		64.2 J	49.5 J	63.4 J	46.7 J	61.9	50.4	63	53.8	59.9	49.8
Mercury	0.77**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	32.3**	1.6 B	1.7 B	1.6 B	1.5 B	1.7 B	2.2 B	1.6 B	1.5 B	1.5 B	1.5 B
Potassium		4160 B	4170 B	3960 B	3950 B	3990 B	3790 B	4070 B	3760 B	4140 B	3720 B
Selenium	4.6**	5 U	5 U	5 U	6.4	5.9	5 U	5.9	5 U	6.4	6.2
Silver	0.1****	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3	3 UJ	3 UJ	3 UJ	3 UJ
Sodium		8080	8210	7970	8100	8800	8250	8700	8400	9180	8340
Thallium	8	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Vanadium	14	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Zinc	51.2**	5 B	4.3 B	2.5 B	21.4	2.3 B	7.9 B	2 B	4.3 B	2.6 B	5.8 B
Cyanide	5.2	2 UJ	2 UJ	2 UJ	2 UJ	2 U	2 U	2 U	2 U	2 U	5 U

Bolded: Detected Concentration

Exceeds Criteria

** Dissolved form

*** Guidance value

**** Acid-Soluble form

#: Protection for Fish Propogation

TABLE 21
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Surface Water Samples
June, 2000

ANALYTE	TOGS 1.1.1 Class C Ambient Water Quality Standards & & Guidance Values # (ug/l)	SW06 ug/l	SW06F ug/l FILTERED	SW07 ug/l	SW07F ug/l FILTERED	SW08 ug/l	SW08F ug/l FILTERED	SW09 ug/l	SW09F ug/l FILTERED	SW10 ug/l	SW10F ug/l FILTERED
Aluminum		**41.8 B**	12 U	**39.3 B**	**14.7 B**	**39.2 B**	**12 B**	**46.4 B**	**22.1 B**	**39.2 B**	**13.1 B**
Antimony		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Arsenic	150**	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Barium		**21.5 B**	**26.1 B**	**24.1 B**	**36.5 B**	**24.2 B**	**41.3 B**	**24.5 B**	**45.5 B**	**21.3 B**	**29.7 B**
Beryllium	11	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	1.35**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium		15700	16200	16600	16600	16700	16300	16800	17400	15000	15700
Chromium	46.8**	**0.52 B**	**0.46 B**	**0.67 B**	**0.73 B**	**0.58 B**	**0.56 B**	**0.54 B**	**0.57 B**	**0.49 B**	**0.49 B**
Cobalt	5	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
Copper	5.5**	**0.7 B**	**0.65 B**	**1.2 B**	**1.2 B**	**0.95 B**	**2.2 B**	**1.3 B**	**0.9 B**	**1.7 B**	**0.5 B**
Iron	300	**446**	**177**	**451**	**212**	**454**	**217**	**502**	**231**	**362**	**140**
Lead	2.0**	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Magnesium		**3970 B**	**4060 B**	**4230 B**	**4210 B**	**4250 B**	**4120 B**	**4280 B**	**4390 B**	**3800 B**	**3910 B**
Manganese		**54.8**	**53.1**	**61.2**	**58.3**	**60.3**	**56**	**60.1**	**58.2**	**41.2**	**39.2**
Mercury	0.77**	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.14 U
Nickel	32.3**	**1.5 B**	**1.5 B**	**1.7 B**	**1.8 B**	**1.8 B**	**1.7 B**	**1.7 B**	**1.8 B**	**1.5 B**	**1.5 B**
Potassium		**4060 B**	**4170 B**	**4490 B**	**4600 B**	**4610 B**	**4490 B**	**4650 B**	**4840 B**	**4040 B**	**4180 B**
Selenium	4.6**	**5.1**	**6.2**	**5.5**	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	0.1****	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ
Sodium		**8760**	**9130**	**9560**	**9440**	**9530**	**9390**	**9740**	**10100**	**8410**	**8680**
Thallium	8	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Vanadium	14	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Zinc	51.2**	**1.2 B**	**2 B**	**1.7 B**	**8.9 B**	**1.8 B**	**9.6 B**	**2.5 B**	**8.8 B**	**1.6 B**	**3.6 B**
Cyanide	5.2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

Bolded: Detected Concentration

Exceeds Criteria

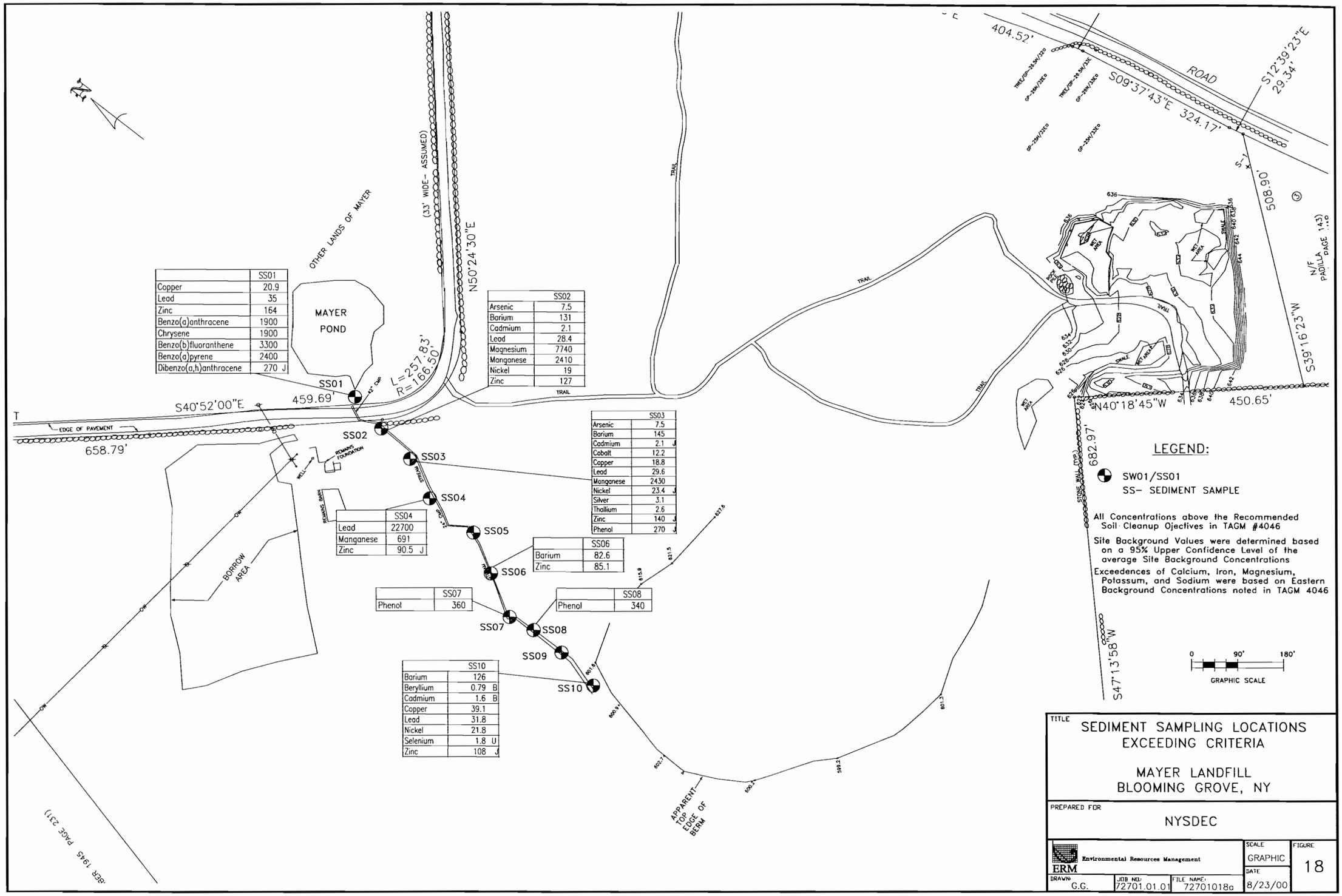
** Dissolved form

*** Guidance value

**** Acid-Soluble form

#: Protection for Fish Propogation

APPENDIX A Exhibit 7
SEDIMENT DATA PACKAGE



	SS01
Copper	20.9
Lead	35
Zinc	164
Benzo(a)anthracene	1900
Chrysene	1900
Benzo(b)fluoranthene	3300
Benzo(a)pyrene	2400
Dibenzo(a,h)anthracene	270 J

	SS02
Arsenic	7.5
Barium	131
Cadmium	2.1
Lead	28.4
Magnesium	7740
Manganese	2410
Nickel	19
Zinc	127

	SS03
Arsenic	7.5
Barium	145
Cadmium	2.1 J
Cobalt	12.2
Copper	18.8
Lead	29.6
Manganese	2430
Nickel	23.4 J
Silver	3.1
Thallium	2.6
Zinc	140 J
Phenol	270 J

	SS04
Lead	22700
Manganese	691
Zinc	90.5 J

	SS06
Barium	82.6
Zinc	85.1

	SS07
Phenol	360

	SS08
Phenol	340

	SS10
Barium	126
Beryllium	0.79 B
Cadmium	1.6 B
Copper	39.1
Lead	31.8
Nickel	21.8
Selenium	1.8 U
Zinc	108 J

LEGEND:

SW01/SS01
SS- SEDIMENT SAMPLE

All Concentrations above the Recommended Soil Cleanup Objectives in TAGM #4046

Site Background Values were determined based on a 95% Upper Confidence Level of the average Site Background Concentrations

Exceedences of Calcium, Iron, Magnesium, Potassum, and Sodium were based on Eastern Background Concentrations noted in TAGM 4046

0 90' 180'
GRAPHIC SCALE

TITLE
SEDIMENT SAMPLING LOCATIONS EXCEEDING CRITERIA

MAYER LANDFILL
BLOOMING GROVE, NY

PREPARED FOR
NYSDEC

ERM Environmental Resources Management

SCALE	FIGURE
GRAPHIC	18

DRAWN:	JOB NO.:	FILE NAME:	DATE
G.G.	72701.01.01	72701018a	8/23/00

TABLE 22
Target Compound List Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Sediment Samples
June, 2000

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/Kg)	SS01 70843004 ug/kg	DUP02600 70843002 ug/kg dup of SS01	SS02 70843006 ug/kg	SS03 70854002 ug/kg	SS04 70854004 ug/kg	SS05 70854006 ug/kg	SS06 70854008 ug/kg	SS07 70870002 ug/kg	SS08 70870004 ug/kg
Chloromethane		14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Bromomethane		14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Vinyl Chloride	200	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Chloroethane	1900	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Methylene Chloride	100	15 U	15 UJ	14 U	1U U	14 U	14 U	24 U	18 UJ	12 UJ
Acetone	200	**25 S**	15 UJ	14 U	4 JS	**16 S**	7 JS	24 U	18 UJ	12 UJ
Carbon Disulfide	2700	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
1,1-Dichloroethene	400	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
1,1-Dichloroethane	200	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
1,2-Dichloroethene (Total)	300	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Chloroform	300	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
1,2-Dichloroethane	100	14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
2-Butanone	300	14 U	15 U	14 U	11 U	14 U	**3 J**	24 U	**6 J**	12 UJ
1,1,1-Trichloroethane	800	14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Carbon Tetrachloride	600	14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Bromodichloromethane		14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
1,2-Dichloropropane		14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
cis-1,3-Dichloropropene		14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Trichloroethene	700	14 U	15 U	14 U	11 U	14 U	14 U	24 U	**76 J**	**42 J**
Dibromochloromethane		14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
1,1,2-Trichloroethane		14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Benzene	60	14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
trans-1,3-Dichloropropene		14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Bromoform		14 U	15 U	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
4-Methyl-2-Pentanone	1000	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
2-Hexanone		14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Tetrachloroethene	1400	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
1,1,2,2-Tetrachloroethane	600	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Toluene	1500	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Chlorobenzene	1700	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Ethylbenzene	550	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Styrene		14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ
Xylene (Total)	1200	14 U	15 UJ	14 U	11 U	14 U	14 U	24 U	18 UJ	12 UJ

Bolded: Detected Concentration

Exceeds Criteria

TABLE 22
Target Compound List Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Sediment Samples
June, 2000

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/Kg)	SS09 70870006 ug/kg	SS10 70870008 ug/kg	FBSS060700 70843009 ug/kg	TBSS060700 70843010 ug/kg
Chloromethane		11 UJ	24 UJ	10 U	10 U
Bromomethane		11 UJ	24 UJ	10 U	10 U
Vinyl Chloride	200	11 UJ	24 UJ	10 U	10 U
Chloroethane	1900	11 UJ	24 UJ	10 U	10 U
Methylene Chloride	100	11 UJ	24 UJ	**1 J**	10 U
Acetone	200	11 UJ	**50 J**	**2 J**	10 U
Carbon Disulfide	2700	11 UJ	24 UJ	10 U	10 U
1,1-Dichloroethene	400	11 UJ	24 UJ	10 U	10 U
1,1-Dichloroethane	200	11 UJ	24 UJ	10 U	10 U
1,2-Dichloroethene (Total)	300	11 UJ	24 UJ	10 U	10 U
Chloroform	300	11 UJ	24 UJ	10 U	10 U
1,2-Dichloroethane	100	11 UJ	24 UJ	10 U	10 U
2-Butanone	300	11 UJ	**19 J**	10 U	10 U
1,1,1-Trichloroethane	800	11 UJ	24 UJ	10 U	10 U
Carbon Tetrachloride	600	11 UJ	24 UJ	10 U	10 U
Bromodichloromethane		11 UJ	24 UJ	10 U	10 U
1,2-Dichloropropane		11 UJ	24 UJ	10 U	10 U
cis-1,3-Dichloropropene		11 UJ	24 UJ	10 U	10 U
Trichloroethene	700	**49**	**5 J**	10 U	10 U
Dibromochloromethane		11 UJ	24 UJ	10 U	10 U
1,1,2-Trichloroethane		11 UJ	24 UJ	10 U	10 U
Benzene	60	11 UJ	24 UJ	10 U	10 U
trans-1,3-Dichloropropene		11 UJ	24 UJ	10 U	10 U
Bromoform		11 UJ	24 UJ	10 U	10 U
4-Methyl-2-Pentanone	1000	11 UJ	24 UJ	10 U	10 U
2-Hexanone		11 UJ	24 UJ	10 U	10 U
Tetrachloroethene	1400	11 UJ	24 UJ	10 U	10 U
1,1,2,2-Tetrachloroethane	600	11 UJ	24 UJ	10 U	10 U
Toluene	1500	11 UJ	14 J	10 U	10 U
Chlorobenzene	1700	11 UJ	24 UJ	10 U	10 U
Ethylbenzene	550	11 UJ	24 UJ	10 U	10 U
Styrene		11 UJ	24 UJ	10 U	10 U
Xylene (Total)	1200	11 UJ	24 UJ	10 U	10 U

Bolded: Detected Concentration
Exceeds Criteria

TABLE 23
Target Compound List Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Sediment Samples
June, 2000

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/kg)	SS01 70843004 ug/kg	DUP02600 70843002 ug/kg dup of SS01	SS02 70843006 ug/kg	SS03 70854002 ug/kg	SS04 70854004 ug/kg
Phenol	30	590 U	940 U	550 U	270 J	470 U
bis(-2-Chloroethyl)Ether		590 U	940 U	550 U	450 U	470 U
2-Chlorophenol	800	590 U	940 U	550 U	450 U	470 U
1,3-Dichlorobenzene	1,600	590 U	940 U	550 U	450 U	470 U
1,4-Dichlorobenzene	8,500	590 U	940 U	550 U	450 U	470 U
1,2-Dichlorobenzene	7,900	590 U	940 U	550 U	450 U	470 U
2-Methylphenol	100	590 U	940 U	550 U	450 U	470 U
2,2-oxybis(1-Chloropropane)		590 U	940 U	550 U	450 U	470 U
4-Methylphenol	900	590 U	940 U	550 U	450 U	470 U
N-Nitroso-di-n-propylamine		590 U	940 U	550 U	450 U	470 U
Hexachloroethane		590 U	940 U	550 U	450 U	470 U
Nitrobenzene	200	590 U	940 U	550 U	450 U	470 U
Isophorone	4,400	590 U	940 U	550 U	450 U	470 U
2-Nitrophenol	330	590 U	940 U	550 U	450 U	470 U
2,4-Dimethyphenol		590 U	940 U	550 U	450 U	470 U
2,4-Dichlorophenol	400	590 U	940 U	550 U	450 U	470 U
1,2,4-Trichlorobenzene	3,400	590 U	940 U	550 U	450 U	470 U
Naphthalene	13,000	62 J	940 U	550 U	450 U	470 U
4-Chloroaniline	220	590 U	940 U	550 U	450 U	470 U
bis(2-Chloroethoxy)methane		590 U	940 U	550 U	450 U	470 U
Hexachlorobutadiene		590 U	940 U	550 U	450 U	470 U
4-Chloro-3-methylphenol	240	590 U	940 U	550 U	450 U	470 U
2-Methylnaphthalene	36,400	590 U	940 U	550 U	450 U	470 U
Hexachlorocyclopentadiene		590 U	940 U	550 U	450 U	470 U
2,4,6-Trichlorophenol		590 U	940 U	550 U	450 U	470 U
2,4,5-Trichlorophenol	100	1500 U	2400 U	1400 U	1100 U	1200 U
2-Chloronaphthalene		590 U	940 U	550 U	450 U	470 U
2-Nitroaniline	430	1500 U	2400 U	1400 U	1100 U	1200 U
Dimethylphthalate	2,000	590 U	940 U	550 U	450 U	470 U
Acenaphthylene	41,000	96 J	130 J	550 U	450 U	470 U
2,6-Dinitrotoluene	1,000	590 U	940 U	550 U	450 U	470 U
3-Nitroaniline	500	1500 U	2400 U	1400 U	1100 U	1200 U
Acenaphthene	50,000	240 J	170 J	550 U	450 U	470 U

TABLE 23
Target Compound List Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Sediment Samples
June, 2000

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/kg)	SS01 70843004 ug/kg	DUP02600 70843002 ug/kg dup of SS01	SS02 70843006 ug/kg	SS03 70854002 ug/kg	SS04 70854004 ug/kg
2,4-Dinitrophenol	200	1500 U	2400 U	1400 U	1100 U	1200 U
4-Nitrophenol	100	1500 U	2400 U	1400 U	1100 U	1200 U
Dibenzofuran	6,200	**80 J**	940 U	550 U	450 U	470 U
2,4-Dinitrotoluene		590 U	940 U	550 U	450 U	470 U
Diethylphthalate	7,100	590 U	940 U	550 U	450 U	470 U
4-Chlorophenyl-phenylether		590 U	940 U	550 U	450 U	470 U
Fluorene	50,000	**250 J**	**220 J**	550 U	450 U	470 U
4-Nitroaniline		1500 U	2400 U	1400 U	1100 U	1200 U
4,6-Dinitro-2-methylphenol		1500 U	2400 U	1400 U	1100 U	1200 U
N-Nitrosodiphenylamine (1)		590 U	940 U	550 U	450 U	470 U
4-Bromophenyl-phenylether		590 U	940 U	550 U	450 U	470 U
Hexachlorobenzene	410	590 U	940 U	550 U	450 U	470 U
Pentachlorophenol	1,000	1500 U	2400 U	1400 U	1100 U	1200 U
Phenanthrene	50,000	**2300**	**2900**	**170 J**	450 U	**56 J**
Anthracene	50,000	**540 J**	**530 J**	550 U	450 U	470 U
Carbazole		**210 J**	**210 J**	550 U	450 U	470 U
Di-n-butylphthalate	8,100	590 U	940 U	**55 J**	450 U	470 U
Fluoranthene	50,000	**3500**	**5000**	**380 J**	450 U	**210 J**
Pyrene	50,000	**3100**	**4200**	**240 J**	450 U	**140 J**
Butylbenzylphthalate	50,000	590 U	940 U	550 U	450 U	470 U
3,3-Dichlorobenzidine		590 U	940 U	550 U	450 U	470 U
Benzo(a)anthracene	224	**1900**	**2400**	**120 J**	450 U	**83 J**
Chrysene	400	**1900**	**2500**	**130 J**	450 U	**85 J**
bis(2-Ethylhexyl)phthalate	50,000	590 U	940 U	550 U	**220 JS**	470 U
Di-n-octylphthalate	50,000	590 U	940 U	550 U	450 U	470 U
Benzo(b)fluoranthene	1,100	**3300**	**4000**	**220 J**	450 U	**150 J**
Benzo(k)fluoranthene	1,100	**1100**	**1500**	**81 J**	450 U	**51 J**
Benzo(a)pyrene	61	**2400**	**3000**	**150 J**	450 U	**89 J**
Indeno(1,2,3-cd)pyrene	3,200	**1300**	**1800**	**89 J**	450 U	**53 J**
Dibenzo(a,h)anthracene	14	**270 J**	**370 J**	550 U	450 U	470 U
Benzo(g,h,i)perylene	50,000	**1100**	**1500**	550 U	450 U	**48 J**

Bolded: Detected Concentration
Exceeds Criteria

TABLE 23
Target Compound List Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Sediment Samples
June, 2000

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/kg)	SS05 70854006 ug/kg	SS06 70854008 ug/kg	SS07 70870002 ug/kg	SS08 70870004 ug/kg	SS09 70870006 ug/kg	SS10 70870008 ug/kg
Phenol	30	470 U	660 U	**360 J**	**340 J**	410 U	790 U
bis(-2-Chloroethyl)Ether		470 U	660 U	480 U	440 U	410 U	790 U
2-Chlorophenol	800	470 U	660 U	480 U	440 U	410 U	790 U
1,3-Dichlorobenzene	1,600	470 U	660 U	480 U	440 U	410 U	790 U
1,4-Dichlorobenzene	8,500	470 U	660 U	480 U	440 U	410 U	790 U
1,2-Dichlorobenzene	7,900	470 U	660 U	480 U	440 U	410 U	790 U
2-Methylphenol	100	470 U	660 U	480 U	440 U	410 U	790 U
2,2-oxybis(1-Chloropropane)		470 U	660 U	480 U	440 U	410 U	790 U
4-Methylphenol	900	470 U	660 U	480 U	440 U	410 U	790 U
N-Nitroso-di-n-propylamine		470 U	660 U	480 U	440 U	410 U	790 U
Hexachloroethane		470 U	660 U	480 U	440 U	410 U	790 U
Nitrobenzene	200	470 U	660 U	480 U	440 U	410 U	790 U
Isophorone	4,400	470 U	660 U	480 U	440 U	410 U	790 U
2-Nitrophenol	330	470 U	660 U	480 U	440 U	410 U	790 U
2,4-Dimethyphenol		470 U	660 U	480 U	440 U	410 U	790 U
2,4-Dichlorophenol	400	470 U	660 U	480 U	440 U	410 U	790 U
1,2,4-Trichlorobenzene	3,400	470 U	660 U	480 U	440 U	410 U	790 U
Naphthalene	13,000	470 U	660 U	480 U	440 U	410 U	790 U
4-Chloroaniline	220	470 U	660 U	480 U	440 U	410 U	790 U
bis(2-Chloroethoxy)methane		470 U	660 U	480 U	440 U	410 U	790 U
Hexachlorobutadiene		470 U	660 U	480 U	440 U	410 U	790 U
4-Chloro-3-methylphenol	240	470 U	660 U	480 U	440 U	410 U	790 U
2-Methylnaphthalene	36,400	470 U	660 U	480 U	440 U	410 U	790 U
Hexachlorocyclopentadiene		470 U	660 U	480 U	440 U	410 U	790 U
2,4,6-Trichlorophenol		470 U	660 U	480 U	440 U	410 U	790 U
2,4,5-Trichlorophenol	100	1200 U	1600 U	1200 U	1100 U	1000 U	2000 U
2-Chloronaphthalene		470 U	660 U	480 U	440 U	410 U	790 U
2-Nitroaniline	430	1200 U	1600 U	1200 U	1100 U	1000 U	2000 U
Dimethylphthalate	2,000	470 U	660 U	480 U	440 U	410 U	790 U
Acenaphthylene	41,000	470 U	660 U	480 U	440 U	410 U	790 U
2,6-Dinitrotoluene	1,000	470 U	660 U	480 U	440 U	410 U	790 U
3-Nitroaniline	500	1200 U	1600 U	1200 U	1100 U	1000 U	2000 U
Acenaphthene	50,000	470 U	660 U	480 U	440 U	410 U	790 U

TABLE 23
Target Compound List Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Sediment Samples
June, 2000

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/kg)	SS05 70854006 ug/kg	SS06 70854008 ug/kg	SS07 70870002 ug/kg	SS08 70870004 ug/kg	SS09 70870006 ug/kg	SS10 70870008 ug/kg
2,4-Dinitrophenol	200	1200 U	1600 U	1200 U	1100 U	1000 U	2000 U
4-Nitrophenol	100	1200 U	1600 U	1200 U	1100 U	1000 U	2000 U
Dibenzofuran	6,200	470 U	660 U	480 U	440 U	410 U	790 U
2,4-Dinitrotoluene		470 U	660 U	480 U	440 U	410 U	790 U
Diethylphthalate	7,100	470 U	660 U	480 U	440 U	410 U	790 U
4-Chlorophenyl-phenylether		470 U	660 U	480 U	440 U	410 U	790 U
Fluorene	50,000	470 U	660 U	480 U	440 U	410 U	790 U
4-Nitroaniline		1200 U	1600 U	1200 U	1100 U	1000 U	2000 U
4,6-Dinitro-2-methylphenol		1200 U	1600 U	1200 U	1100 U	1000 U	2000 U
N-Nitrosodiphenylamine (1)		470 U	660 U	480 U	440 U	410 U	790 U
4-Bromophenyl-phenylether		470 U	660 U	480 U	440 U	410 U	790 U
Hexachlorobenzene	410	470 U	660 U	480 U	440 U	410 U	790 U
Pentachlorophenol	1,000	1200 U	1600 U	1200 U	1100 U	1000 U	2000 U
Phenanthrene	50,000	470 U	660 U	480 U	440 U	410 U	790 U
Anthracene	50,000	470 U	660 U	480 U	440 U	410 U	790 U
Carbazole		470 U	660 U	480 U	440 U	410 U	790 U
Di-n-butylphthalate	8,100	470 U	660 U	480 U	440 U	410 U	790 U
Fluoranthene	50,000	470 U	660 U	480 U	440 U	410 U	790 U
Pyrene	50,000	470 U	660 U	480 U	440 U	410 U	790 U
Butylbenzylphthalate	50,000	470 U	660 U	480 U	440 U	410 U	790 U
3,3-Dichlorobenzidine		470 U	660 U	480 U	440 U	410 U	790 U
Benzo(a)anthracene	224	470 U	660 U	480 U	440 U	410 U	790 U
Chrysene	400	470 U	660 U	480 U	440 U	410 U	790 U
bis(2-Ethylhexyl)phthalate	50,000	470 U	660 U	**290 J**	**220 J**	**250 J**	**320 J**
Di-n-octylphthalate	50,000	470 U	660 U	480 U	440 U	410 U	790 U
Benzo(b)fluoranthene	1,100	470 U	660 U	480 U	440 U	410 U	790 U
Benzo(k)fluoranthene	1,100	470 U	660 U	480 U	440 U	410 U	790 U
Benzo(a)pyrene	61	470 U	660 U	480 U	440 U	410 U	790 U
Indeno(1,2,3-cd)pyrene	3,200	470 U	660 U	480 U	440 U	410 U	790 U
Dibenzo(a,h)anthracene	14	470 U	660 U	480 U	440 U	410 U	790 U
Benzo(g,h,i)perylene	50,000	470 U	660 U	480 U	440 U	410 U	790 U

Bolded: Detected Concentration
Exceeds Criteria

TABLE 24
Target Compound List Pesticides/PCBs
Mayer Landfill, Blooming Grove, NY
Sediment Samples
June, 2000

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/Kg)	SS01 70843004 ug/kg	DUP02600 70843002 ug/kg dup of SS01	SS02 70843006 ug/kg	SS03 70854002 ug/kg	SS04 70854004 ug/kg	SS05 78054006 ug/kg	SS06 70854008 ug/kg	SS07 78070002 ug/kg	SS08 70870004 ug/kg	SS09 70870006 ug/kg	SS10 70870008 ug/kg
alpha-BHC	110	2.9 UJ	4 UJ	3.2 UJ	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
beta-BHC	200	2.9 U	4 U	3.2 U	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
delta-BHC	300	2.9 UJ	4 UJ	3.2 UJ	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
gamma-BHC (Lindane)	60	2.9 UJ	4 UJ	3.2 UJ	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
Heptachlor	100	2.9 U	4 U	3.2 U	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
Aldrin	41	**6.7 P**	4 U	**8.9 P**	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
Heptachlor Epoxide	20	2.9 U	4 U	3.2 U	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
Endosulfan I	900	2.9 U	4 U	3.2 U	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
Dieldrin	44	5.6 U	7.9 U	6.2 U	4.3 U	4.7 U	4.6 U	6.5 U	4.8 U	4.3 U	4.1 U	7.7 U
4,4'-DDE	2100	5.6 U	7.9 U	6.2 U	4.3 U	4.7 U	4.6 U	6.5 U	4.8 U	4.3 U	4.1 U	**13**
Endrin	100	5.6 U	7.9 U	6.2 U	4.3 U	4.7 UJ	4.6 UJ	6.5 UJ	4.8 U	4.3 U	4.1 U	7.7 U
Endosulfan II	900	5.6 U	7.9 U	6.2 U	4.3 U	4.7 U	4.6 U	6.5 U	4.8 U	4.3 U	4.1 U	7.7 U
4,4'-DDD	2900	5.6 U	7.9 U	6.2 U	4.3 U	4.7 U	4.6 U	6.5 U	4.8 U	4.3 U	4.1 U	7.7 U
Endosulfan Sulfate	1000	5.6 U	7.9 U	6.2 U	4.3 U	4.7 U	4.6 U	6.5 U	4.8 U	4.3 U	4.1 U	7.7 U
4,4'-DDT	2100	5.6 U	7.9 U	6.2 U	4.3 U	4.7 U	4.6 U	6.5 U	4.8 U	4.3 U	4.1 U	7.7 U
Methoxychlor		29 U	40 U	32 U	22 U	24 U	24 U	34 U	24 U	22 U	21 U	40 U
Endrin Ketone		5.6 U	7.9 U	6.2 U	4.3 U	4.7 U	4.6 U	6.5 U	4.8 U	4.3 U	4.1 U	7.7 U
Endrin Aldehyde	5	5.6 U	7.9 U	6.2 U	4.3 U	4.7 U	4.6 U	6.5 U	4.8 U	4.3 U	4.1 U	7.7 U
alpha-Chlordane	540	2.9 U	4 U	3.2 U	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
gamma-Chlordane	540	2.9 U	4 U	3.2 U	2.2 U	2.4 U	2.4 U	3.4 U	2.4 U	2.2 U	2.1 U	4 U
Toxaphene		290 U	400 U	320 U	220 U	240 U	240 U	340 U	240 U	220 U	210 U	400 U
Aroclor-1016	1,000-surface 10,000-subsurface	56 U	79 U	62 U	43 U	47 U	46 U	65 U	48 U	43 U	41 U	77 U
Aroclor-1221	1,000-surface 10,000-subsurface	110 U	160 U	130 U	88 U	95 U	94 U	130 U	96 U	86 U	83 U	160 U
Aroclor-1232	1,000-surface 10,000-subsurface	56 U	79 U	62 U	43 U	47 U	46 U	65 U	48 U	43 U	41 U	77 U
Aroclor-1242	1,000-surface 10,000-subsurface	56 U	79 U	62 U	43 U	47 U	46 U	65 U	48 U	43 U	41 U	77 U
Aroclor-1248	1,000-surface 10,000-subsurface	56 U	79 U	62 U	43 U	47 U	46 U	65 U	48 U	43 U	41 U	77 U
Aroclor-1254	1,000-surface 10,000-subsurface	56 U	79 U	62 U	43 U	47 U	46 U	65 U	48 U	43 U	41 U	77 U
Aroclor-1260	1,000-surface 10,000-subsurface	56 U	79 U	62 U	43 U	47 U	46 U	65 U	48 U	43 U	41 U	77 U

Bolded: Detected Concentration
Exceeds Criteria

TABLE 25
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Sediment Samples
June, 2000

ANALYTE	Eastern Background (mg/Kg)	TAGM 4046 Recommended Soil Clean -up Objectives (mg/Kg)	SS01 70843004 mg/kg	DUP02600 70843002 mg/kg dup of SS01	SS02 70843006 mg/kg	SS03 70854002 mg/kg	SS04 70854004 mg/kg	SS05 70854006 mg/kg	SS06 70854008 mg/kg	SS07 70870002 mg/kg	SS08 70870004 mg/kg	SS09 70870006 mg/kg	SS10 70870008 mg/kg
Aluminum	33,000	14318.93	7770	8300	9890	10600	8930	6890	9460	6950	6250	7240	12400
Antimony	N/A	1.95	1.5 U	1.9 U	1.4 U	1 UJ	1.4 UJ	1.2 UJ	1.6 U	1.3 U	1.1 U	0.95 U	1.8 U
Arsenic	3-12 **	6.99	1.5 B	3.7 B	7.5	7.5	5.5	1.7 B	4.3	3.4	1.8 B	2.6	6.7
Barium	15-600	80.07	40.7 B	41.9 B	131	145	52.1 B	32.8 B	82.6	48.8 B	30.7 B	29.3 B	126
Beryllium	0-1.75	0.64	0.39 B	0.5 B	0.5 B	0.6 B	0.41 B	0.33 B	0.54 B	0.33 B	0.33 B	0.48 B	0.79 B
Cadmium	0.1-1	1.41	1.2 B	1.7 B	2.1	2.1 J	1.3 BJ	0.86 BJ	1.3 B	1.3	0.92 B	1.3	1.6 B
Calcium	130 - 35,000 **	2945.53	2050	3190	9860	1110	1160 B	642 B	2310	966 B	588 B	271 B	3810
Chromium	1.5 - 40 **	18.50	11.3 J	11.8 J	10.9 J	14.3 J	10.5 J	8.8 J	12.1	8.3	7.7	9.5	16.1
Cobalt	2.5 - 60 **	9.29	6 B	6.4 B	8.6 B	12.2	6.8 B	6.1 B	6.6 B	6.1 B	5.2 B	7.7 B	6.7 B
Copper	1-50	17.54	20.9	22.6	13.7	18.8	13.1	13.4	17.4	11.3	9.6	13.9	39.1
Iron	2,000 - 550,000	23723.42	17200	16800	34000	35600	22700	15500	19400	20700	16300	22300	15100
Lead	***	27.82	35	30.5	28.4	29.6	37.4	11.2	23.6	12.4	11.9	11.9	31.8
Magnesium	100 - 5,000	4390.39	3570	3830	7740	4320	3220	2880	3000	2320	2460	3100	3370
Manganese	50 - 5,000	513.92	211	187	2410	2430	691	440	265	338	262	191	227
Mercury	0.001- 0.2	0.12	0.081 U	0.11 U	0.079 U	0.056 U	0.075 B	0.061 U	0.1 U	0.051 U	0.048 U	0.052 U	0.093 U
Nickel	0.5- 25	18.64	16	17.5	19	23.4 J	15.5 J	14.7	16.9	13.3	11.8	16.6	21.8
Potassium	8,500 - 43,000 **	1040.60	737 B	791 B	606 B	701 B	616 B	530 J	805 B	621 B	441 B	422 B	944 B
Selenium	0.1- 3.9	1.39	1.5 U	1.9 U	1.4 U	1 U	1.4 U	1.2 U	1.6 U	1.3 U	1.1 U	0.95 U	1.8 U
Silver	N/A	2.20	1.3 BJ	1.8 BJ	3 J	3.1	1.8 B	1.2 B	1.4 B	2 BJ	1.5 BJ	2.1 J	1.2 B
Sodium	6,000 - 8,000	161.61	305 B	336 B	436 B	267 B	148 B	102 B	183 B	108 B	112 B	95.9 B	381 B
Thallium	N/A	2.42	1.8 U	2.3 U	1.7 U	2.6	1.7 U	1.5 U	1.9 U	1.5 U	1.9 B	1.1 U	2.1 UJ
Vanadium	1-300	23.41	14.3 B	15.2 B	19.7	18.3	15.2	11.2 B	17.2	12.5 B	12.1	14.4	18.3
Zinc	9-50	55.27	164	173	127	140 J	90.5 J	51.3 J	85.1	54.2 J	45.6 J	50.7 J	108 J
Cyanide	N/A	N/A	0.31 B	0.47 B	0.31 B	0.23 B	0.26 B	0.12 B	0.12 U	0.12 U	0.098 U	0.099 U	0.22 U
TOC (%)			1.68	1.67	1.17	0.91	1.75	0.59	1.14	1.03	0.58	0.26	2.6

* = comparison criteria is 95% UCL of average site background concentrations (Table 5)
** New York State background
***: Average Levels in underdeveloped, rural areas may range from 4-61 ppm.
N/A: Not available
Exceeds Criteria

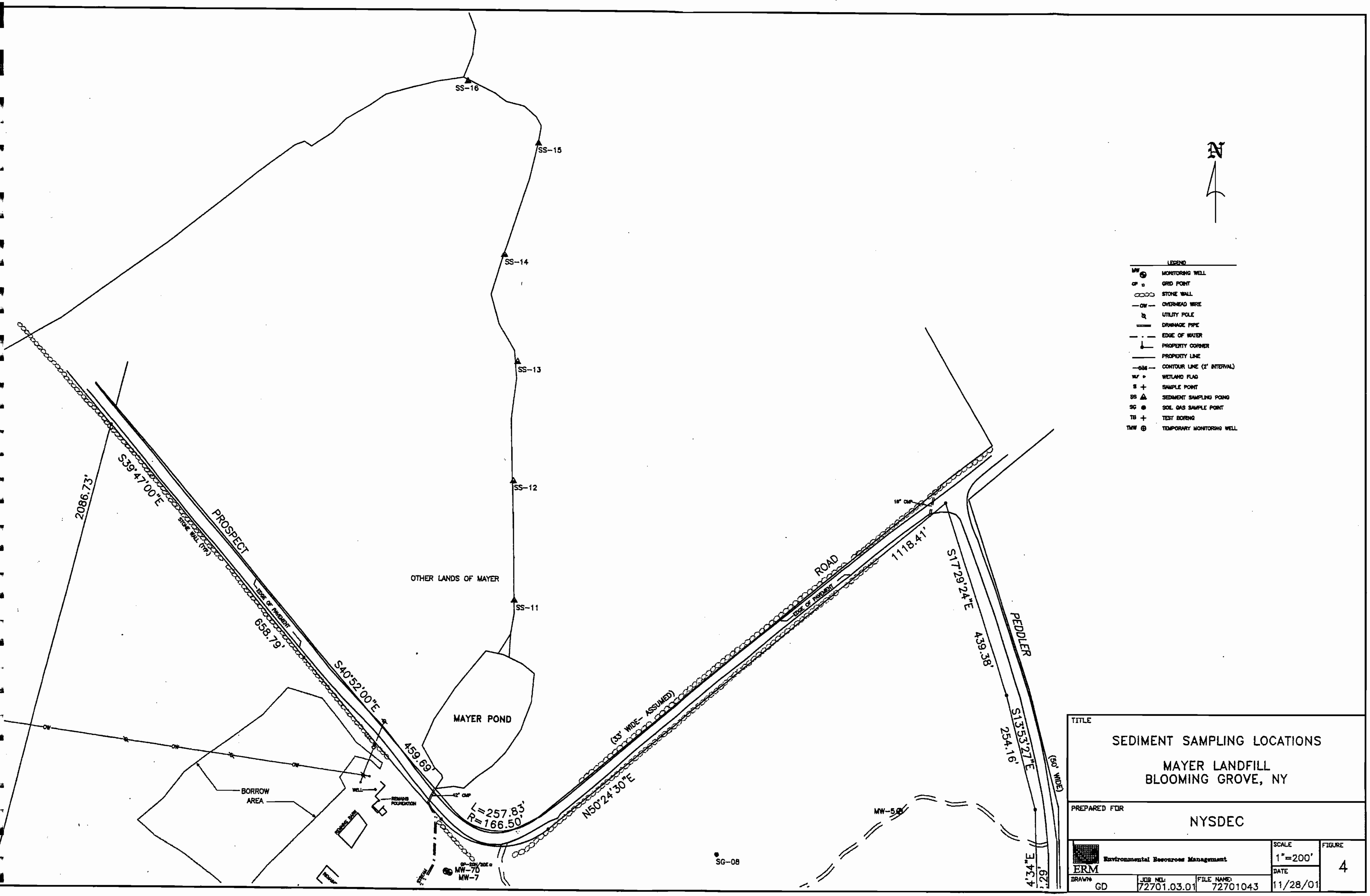

N
LEGEND
MW MONITORING WELL
GP GRID POINT
STONE WALL
OW OVERHEAD WIRE
UTILITY POLE
DRAINAGE PIPE
EDGE OF WATER
PROPERTY CORNER
PROPERTY LINE
CONTOUR LINE (2' INTERVAL)
WF WETLAND FLAG
S SAMPLE POINT
SS SEDIMENT SAMPLING POING
SG SOIL GAS SAMPLE POINT
TB TEST BORING
TMW TEMPORARY MONITORING WELL
SS-16
SS-15
SS-14
SS-13
SS-12
SS-11
OTHER LANDS OF MAYER
MAYER POND
PROSPECT
ROAD
PEDDLER
(33' WIDE- ASSUMED)
(50' WIDE)
EDGE OF PAVEMENT
STONE WALL (TYP.)
2086.73'
S39°47'00"E
658.79'
S40°52'00"E
459.69'
L=257.83'
R=166.50'
N50°24'30"E
1118.41'
S17°29'24"E
439.38'
S13°53'27"E
254.16'
BORROW AREA
MW-5
SG-08
MW-7D
MW-7
TITLE
SEDIMENT SAMPLING LOCATIONS
MAYER LANDFILL
BLOOMING GROVE, NY
PREPARED FOR
NYSDEC
ERM
Environmental Resources Management
SCALE 1"=200'
FIGURE 4
DATE 11/28/01
DRAWN: GD
JOB NO.: 72701.03.01
FILE NAME: 72701043

TABLE 2
Target Compound List Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Sediment Samples
August, 2001

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/Kg)	SS11 ug/kg	SS12 ug/kg	SS13 ug/kg	SS14 ug/kg	SS15 ug/kg	SS16 ug/kg	DUP082201 ug/kg
Chloromethane		12 U	13 U	11 U	11 U	11 U	11 U	11 U
Bromomethane		12 U	13 U	11 U	11 U	11 U	11 U	11 U
Vinyl Chloride	200	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Chloroethane	1900	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Methylene Chloride	100	12 U	2 J	3 J	11 U	11 U	11 U	11 U
Acetone	200	12 UJ	13 UJ	11 UJ	11 UJ	11 UJ	11 UJ	11 UJ
Carbon Disulfide	2700	12 U	13 U	11 U	11 U	11 U	11 U	11 U
1,1-Dichloroethene	400	12 U	13 U	11 U	11 U	11 U	11 U	11 U
1,1-Dichloroethane	200	12 U	13 U	11 U	11 U	11 U	11 U	11 U
1,2-Dichloroethene (Total)	300	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Chloroform	300	12 U	13 U	11 U	11 U	11 U	11 U	11 U
1,2-Dichloroethane	100	12 U	13 U	11 U	11 U	11 U	11 U	11 U
2-Butanone	300	12 UJ	13 UJ	11 UJ	11 UJ	11 UJ	11 UJ	11 UJ
1,1,1-Trichloroethane	800	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Carbon Tetrachloride	600	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Bromodichloromethane		12 U	13 U	11 U	11 U	11 U	11 U	11 U
1,2-Dichloropropane		12 U	13 U	11 U	11 U	11 U	11 U	11 U
cis-1,3-Dichloropropene		12 U	13 U	11 U	11 U	11 U	11 U	11 U
Trichloroethene	700	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Dibromochloromethane		12 U	13 U	11 U	11 U	11 U	11 U	11 U
1,1,2-Trichloroethane		12 U	13 U	11 U	11 U	11 U	11 U	11 U
Benzene	60	12 U	13 U	11 U	11 U	11 U	11 U	11 U
trans-1,3-Dichloropropene		12 U	13 U	11 U	11 U	11 U	11 U	11 U
Bromoform		12 U	13 U	11 U	11 U	11 U	11 U	11 U
4-Methyl-2-Pentanone	1000	12 U	13 U	11 U	11 U	11 U	11 U	11 U
2-Hexanone		12 UJ	13 U	11 UJ	11 UJ	11 U	11 U	11 UJ
Tetrachloroethene	1400	12 U	1 J	11 U	11 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	600	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Toluene	1500	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Chlorobenzene	1700	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Ethylbenzene	550	12 U	13 U	11 U	11 U	11 U	11 U	11 U
Styrene		12 U	13 U	11 U	11 U	11 U	11 U	11 U
Xylene (Total)	1200	12 U	13 U	11 U	11 U	11 U	11 U	11 U

Bolded: Detected Concentration
Exceeds Criteria

TABLE 3
Target Compound List Semi-Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Sediment Samples
August, 2001

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/kg)	SS11 ug/kg	SS12 ug/kg	SS13 ug/kg	SS14 ug/kg	SS15 ug/kg	SS16 ug/kg	DUP082201 ug/kg
Phenol	30	390 U	450 U	370 U	390 U	370 U	370 U	380 U
bis(-2-Chloroethyl)Ether		390 U	450 U	370 U	390 U	370 U	370 U	380 U
2-Chlorophenol	800	390 U	450 U	370 U	390 U	370 U	370 U	380 U
1,3-Dichlorobenzene	1,600	390 U	450 U	370 U	390 U	370 U	370 U	380 U
1,4-Dichlorobenzene	8,500	390 U	450 U	370 U	390 U	370 U	370 U	380 U
1,2-Dichlorobenzene	7,900	390 U	450 U	370 U	390 U	370 U	370 U	380 U
2-Methylphenol	100	390 U	450 U	370 U	390 U	370 U	370 U	380 U
2,2-oxybis(1-Chloropropane)		390 U	450 U	370 U	390 U	370 U	370 U	380 U
4-Methylphenol	900	390 U	450 U	370 U	390 U	370 U	370 U	380 U
N-Nitroso-di-n-propylamine		390 U	450 U	370 U	390 U	370 U	370 U	380 U
Hexachloroethane		390 U	450 U	370 U	390 U	370 U	370 U	380 U
Nitrobenzene	200	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Isophorone	4,400	390 U	450 U	370 U	390 U	370 U	370 U	380 U
2-Nitrophenol	330	390 U	450 U	370 U	390 U	370 U	370 U	380 U
2,4-Dimethyphenol		390 U	450 U	370 U	390 U	370 U	370 U	380 U
2,4-Dichlorophenol	400	390 U	450 U	370 U	390 U	370 U	370 U	380 U
1,2,4-Trichlorobenzene	3,400	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Naphthalene	13,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
4-Chloroaniline	220	390 U	450 U	370 U	390 U	370 U	370 U	380 U
bis(2-Chloroethoxy)methane		390 U	450 U	370 U	390 U	370 U	370 U	380 U
Hexachlorobutadiene		390 U	450 U	370 U	390 U	370 U	370 U	380 U
4-Chloro-3-methylphenol	240	390 U	450 U	370 U	390 U	370 U	370 U	380 U
2-Methylnaphthalene	36,400	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Hexachlorocyclopentadiene		390 U	450 U	370 U	390 U	370 U	370 U	380 U
2,4,6-Trichlorophenol		390 U	450 U	370 U	390 U	370 U	370 U	380 U
2,4,5-Trichlorophenol	100	970 U	1100 U	930 U	960 U	930 U	930 U	960 U
2-Chloronaphthalene		390 U	450 U	370 U	390 U	370 U	370 U	380 U
2-Nitroaniline	430	970 U	1100 U	930 U	960 U	930 U	930 U	960 U
Dimethylphthalate	2,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Acenaphthylene	41,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
2,6-Dinitrotoluene	1,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
3-Nitroaniline	500	970 U	1100 U	930 U	960 U	930 U	930 U	960 U
Acenaphthene	50,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
2,4-Dinitrophenol	200	970 U	1100 U	930 U	960 U	930 U	930 U	960 U

TABLE 3
Target Compound List Semi-Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Sediment Samples
August, 2001

ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/kg)	SS11 ug/kg	SS12 ug/kg	SS13 ug/kg	SS14 ug/kg	SS15 ug/kg	SS16 ug/kg	DUP082201 ug/kg
4-Nitrophenol	100	970 U	1100 U	930 U	960 U	930 U	930 U	960 U
Dibenzofuran	6,200	390 U	450 U	370 U	390 U	370 U	370 U	380 U
2,4-Dinitrotoluene		390 U	450 U	370 U	390 U	370 U	370 U	380 U
Diethylphthalate	7,100	390 U	450 U	370 U	390 U	370 U	370 U	380 U
4-Chlorophenyl-phenylether		390 U	450 U	370 U	390 U	370 U	370 U	380 U
Fluorene	50,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
4-Nitroaniline		970 U	1100 U	930 U	960 U	930 U	930 U	960 U
4,6-Dinitro-2-methylphenol		970 U	1100 U	930 U	960 U	930 U	930 U	960 U
N-Nitrosodiphenylamine (1)		390 U	450 U	370 U	390 U	370 U	370 U	380 U
4-Bromophenyl-phenylether		390 U	450 U	370 U	390 U	370 U	370 U	380 U
Hexachlorobenzene	410	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Pentachlorophenol	1,000	970 U	1100 U	930 U	960 U	930 U	930 U	960 U
Phenanthrene	50,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Anthracene	50,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Carbazole		390 U	450 U	370 U	390 U	370 U	370 U	380 U
Di-n-butylphthalate	8,100	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Fluoranthene	50,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Pyrene	50,000	390 UJ	450 UJ	370 UJ	390 UJ	370 UJ	370 UJ	380 UJ
Butylbenzylphthalate	50,000	390 U	450 U	370 U	390 U	370 U	370 U	380 U
3,3-Dichlorobenzidine		390 U	450 U	370 U	390 U	370 U	370 U	380 U
Benzo(a)anthracene	224	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Chrysene	400	390 U	450 U	370 U	390 U	370 U	370 U	380 U
bis(2-Ethylhexyl)phthalate	50,000	390 U	**46 J**	**46 J**	**60 J**	**54 J**	**41 J**	380 U
Di-n-octylphthalate	50,000	390 UJ	450 UJ	370 UJ	390 UJ	370 UJ	370 UJ	380 UJ
Benzo(b)fluoranthene	1,100	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Benzo(k)fluoranthene	1,100	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Benzo(a)pyrene	61	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Indeno(1,2,3-cd)pyrene	3,200	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Dibenzo(a,h)anthracene	14	390 U	450 U	370 U	390 U	370 U	370 U	380 U
Benzo(g,h,i)perylene	50,000	390 UJ	450 UJ	370 UJ	390 UJ	370 UJ	370 UJ	380 UJ

Bolded: Detected Concentration

TABLE 4
Pesticides/ PCBs
Mayer Landfill, Blooming Grove, NY
Sediment Samples
August, 2001

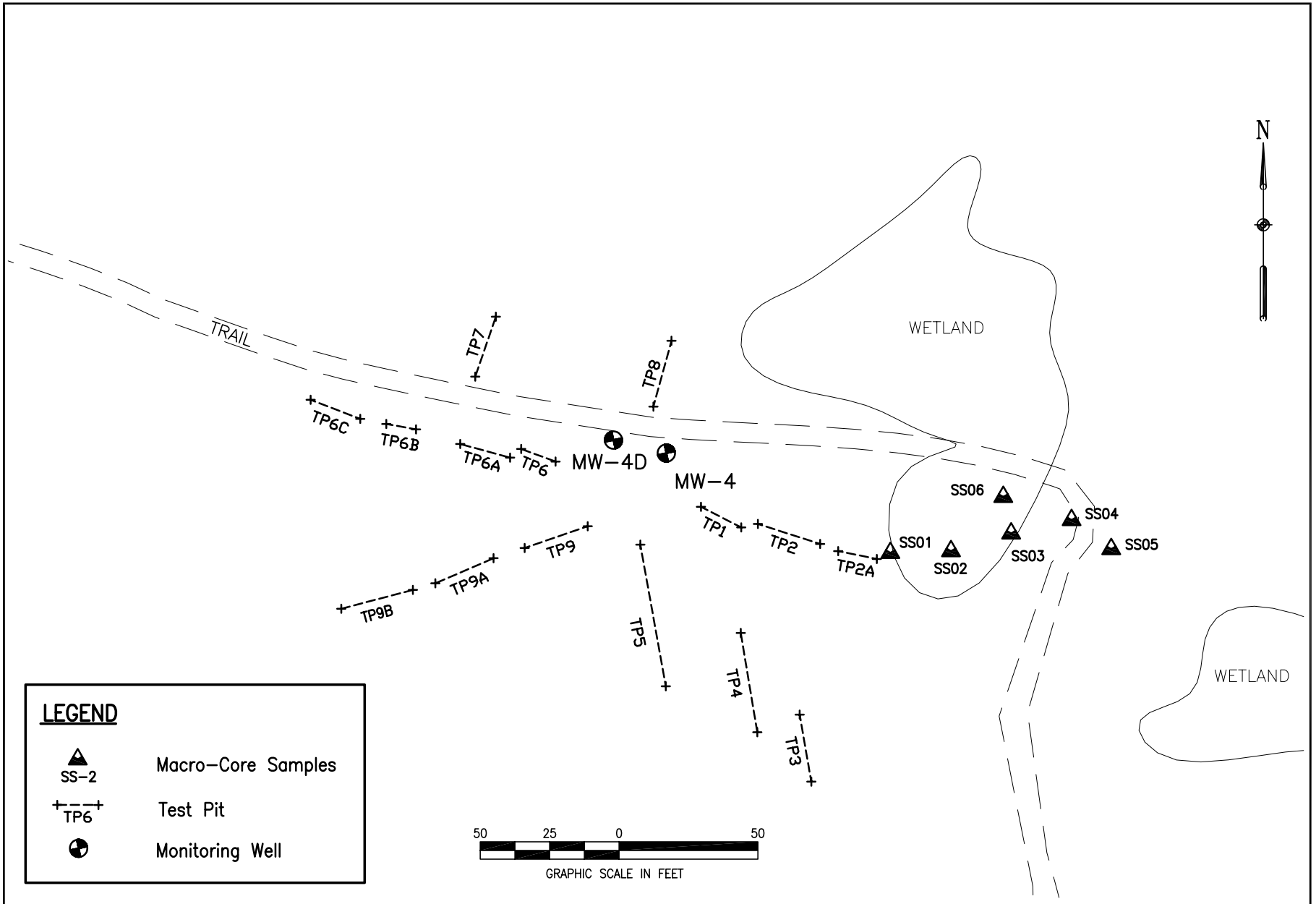
ANALYTE	TAGM 4046 Recommended Soil Clean -up Objectives (ug/Kg)	SS11 ug/kg	SS12 ug/kg	SS13 ug/kg	SS14 ug/kg	SS15 ug/kg	SS16 ug/kg	DUP082201 ug/kg
alpha-BHC	110	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
beta-BHC	200	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
delta-BHC	300	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
gamma-BHC (Lindane)	60	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
Heptachlor	100	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
Aldrin	41	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
Heptachlor Epoxide	20	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
Endosulfan I	900	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
Dieldrin	44	3.8 U	4.5 U	3.7 U	3.8 U	3.7 UJ	3.6 U	3.8 U
4,4-DDE	2100	3.8 U	4.5 U	3.7 U	3.8 U	3.7 UJ	3.6 U	3.8 U
Endrin	100	3.8 U	4.5 U	3.7 U	3.8 U	3.7 UJ	3.6 U	3.8 U
Endosulfan II	900	3.8 U	4.5 U	3.7 U	3.8 U	3.7 UJ	3.6 U	3.8 U
4,4-DDD	2900	3.8 U	4.5 U	3.7 U	3.8 U	3.7 UJ	3.6 U	3.8 U
Endosulfan Sulfate	1000	3.8 U	4.5 U	3.7 U	3.8 U	3.7 UJ	3.6 U	3.8 U
4,4-DDT	2100	3.8 U	4.5 U	3.7 U	3.8 U	3.7 UJ	3.6 U	3.8 U
Methoxychlor		20 U	23 U	19 U	20 U	19 UJ	19 U	20 U
Endrin Ketone		3.8 U	4.5 U	3.7 U	3.8 U	3.7 UJ	3.6 U	3.8 U
Endrin Aldehyde	5	3.8 U	4.5 U	3.7 U	3.8 U	3.7 UJ	3.6 U	3.8 U
alpha-Chlordane	540	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
gamma-Chlordane	540	2 U	2.3 U	1.9 U	2 U	1.9 UJ	1.9 U	2 U
Toxaphene		200 U	230 U	190 U	200 U	190 UJ	190 U	200 U
Aroclor-1016	1,000-surface 10,000-subsurface	38 U	45 U	37 U	38 U	37 UJ	36 U	38 U
Aroclor-1221	1,000-surface 10,000-subsurface	77 U	91 U	75 U	77 U	75 UJ	74 U	77 U
Aroclor-1232	1,000-surface 10,000-subsurface	38 U	45 U	37 U	38 U	37 UJ	36 U	38 U
Aroclor-1242	1,000-surface 10,000-subsurface	38 U	45 U	37 U	38 U	37 UJ	36 U	38 U
Aroclor-1248	1,000-surface 10,000-subsurface	38 U	45 U	37 U	38 U	37 UJ	36 U	38 U
Aroclor-1254	1,000-surface 10,000-subsurface	38 U	45 U	37 U	38 U	37 UJ	36 U	38 U
Aroclor-1260	1,000-surface 10,000-subsurface	38 U	45 U	37 U	38 U	37 UJ	36 U	38 U

Bolded: Detected Concentration

TABLE 5
Target Analyte List Inorganic Constituents
Mayer Landfill, Blooming Grove, NY
Sediment Samples
August, 2001

ANALYTE	Eastern Background (mg/Kg)	TAGM 4046 Recommended Soil Clean -up Objectives (mg/Kg)	SS11 mg/kg	SS12 mg/kg	SS13 mg/kg	SS14 mg/kg	SS15 mg/kg	SS16 mg/kg	DUP082201 mg/kg
Aluminum	33,000	14318.93	**12900 J**	**10200 J**	**12400 J**	**11900 J**	**12000 J**	**12200 J**	**12200 J**
Antimony	N/A	1.95	0.64 UJ	0.78 UJ	0.86 UJ	0.54 UJ	0.80 UJ	0.62 UJ	0.42 UJ
Arsenic	3-12 **	6.99	**8.4**	**8.4**	**12.1**	**17.7**	**17.7**	**18.7**	**7.7**
Barium	15-600	80.07	**77.9 J**	**96.2 J**	**99.5 J**	**163 J**	**120 J**	**113 J**	**64.5 J**
Beryllium	0-1.75	0.64	**0.56 B**	**0.49 B**	**0.67 B**	**0.73 B**	**0.76 B**	**0.80 B**	**0.52 B**
Cadmium	0.1-1	1.41	**0.36 J**	**0.43 J**	**0.53 J**	**0.82 J**	**0.79 J**	**0.71 J**	**0.28 J**
Calcium	130 - 35,000 **	2945.53	**1170**	**2090**	**1140**	**1370**	**1410**	**1200**	**839**
Chromium	1.5 - 40 **	18.50	**15.4**	**14.2**	**16.4**	**15.3**	**17.4**	**17.9**	**14.4**
Cobalt	2.5 – 60 **	9.29	**12.5**	**9.9 B**	**11.5**	**13.6**	**13.1**	**13.7**	**12.8**
Copper	1-50	17.54	**10.8 J**	**4.2 J**	**4.8 J**	2.5 U	**4.7 J**	**6.0 J**	**12.1 J**
Iron	2,000 - 550,000	23723.42	**26800**	**27100**	**37400**	**46100**	**46100**	**44600**	**25300**
Lead	***	27.82	**22.4 J**	**22.5 J**	**23.0 J**	**27.0 J**	**25.9 J**	**24.9 J**	**21.1 J**
Magnesium	100 - 5,000	4390.39	**5960**	**4610**	**5810**	**5260**	**5570**	**5830**	**5740**
Manganese	50 - 5,000	513.92	**1950 J**	**1970 J**	**2100 J**	**2720 J**	**2070 J**	**2020 J**	**1850 J**
Mercury	0.001- 0.2	0.12	0.056 U	0.057 U	0.049 U	0.053 U	0.045 U	0.056 U	0.055 U
Nickel	0.5- 25	18.64	**23.7**	**19.8**	**23.8**	**22.5**	**22.9**	**24.9**	**22.5**
Potassium	8,500 - 43,000 **	1040.60	**651 J**	**622 J**	**602 J**	**675 J**	**650 J**	**731 J**	**615 J**
Selenium	0.1- 3.9	1.39	**4.2 J**	**4.6 J**	**5.4 J**	**6.8 J**	**7.0 J**	**6.9 J**	**3.9 J**
Silver	N/A	2.20	**4.3 J**	**4.4 J**	**6.1 J**	**7.5 J**	**7.4 J**	**7.2 J**	**4.0 J**
Sodium	6,000 - 8,000	161.61	**227 J**	**296 J**	**294 J**	**335 J**	**320 J**	**300 J**	**195 J**
Thallium	N/A	2.42	0.71 U	0.96 U	0.83 U	0.87 U	0.80 U	0.83 U	0.64 U
Vanadium	1-300	23.41	**18.3**	**15.1**	**21.1**	**24.0**	**24.1**	**24.6**	**16.6**
Zinc	9-50	55.27	**108**	**133**	**153**	**176**	**164**	**154**	**98.6**
Cyanide	N/A	N/A	0.22 U	0.23 U	0.28 U	0.22 U	0.19 U	0.15 UJ	0.19 U
TOC (%)			**0.62**	**0.96**	**0.23**	**0.44**	**0.45**	**0.29**	**0.41**

* = comparison criteria is 95% UCL of average site background concentrations (Table 5)
**: New York State background
***: Average Levels in undeveloped, rural areas may range from 4-61 ppm.
N/A: Not available
Bolded: Detected Concentration
Exceeds Criteria



EA ENGINEERING, P.C. AND IT'S AFFILIATE EA SCIENCE AND TECHNOLOGY	MAYER LANDFILL SITE (3-36-027) BLOOMING GROVE, NEW YORK	FIGURE 3 TEST PIT AND MACRO-CORE SAMPLING LOCATIONS	DESIGNED BY LJW	DRAWN BY LJW	DATE 12-19-07	PROJECT NO. 14474.03
			CHECKED BY JF	PROJECT MGR. DWE	SCALE 1" = 50'	FIGURE 3

F:\Projects\Syracuse\NYSDEC\1447403 - Mayer Landfill\Basis of Design\Fig3_SAMPLES.dwg, 12/19/2007 4:12:25 PM

Table 11
Summary of Detected Volatile Organic Compounds (VOCs) in Soil Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Test Parameters EPA Method 8260	CLIENT ID:	3-36-027-SS01S		3-36-027-SS01D		3-36-027-SS02S		3-36-027-SS02D		3-36-027-SS03S		3-36-027-SS03D		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-001		AC33128-002		AC33128-003		AC33128-004		AC33128-007		AC33128-008		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		
Acetone	mg/Kg		U		U		U	0.021	J		U		U	0.05
Benzene	mg/Kg		U	**0.49**	J		U		U		U	**0.16**		0.06
Ethylbenzene	mg/Kg		U	**1.9**	J		U		U		U	**1.4**		1
Isopropylbenzene	mg/Kg		U	0.19	J		U		U		U		U	
m&p-Xylenes	mg/Kg		U	**3.1**	J	0.0014	J		U		U	**2.1**		0.26
Methylcyclohexane	mg/Kg		U	1.3	J		U		U		U	1.6		
Methylene chloride	mg/Kg		UJ		UJ		UJ		UJ		UJ		UJ	0.05
o-Xylene	mg/Kg		U	**1.5**			U		U		U	**1.1**		0.26
Toluene	mg/Kg		U		U		U		U		U	0.5		0.7
Trichlorofluoromethane	mg/Kg		U		U		U		U		U		U	

Test Parameters EPA Method 8260	CLIENT ID:	3-36-027-SS04S		3-36-027-SS04D		3-36-027-SS05S		3-36-027-SS05D		3-36-027-SS06S		3-36-027-SS06D		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-009		AC33128-010		AC33128-011		AC33128-012		AC33128-013		AC33128-014		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		
Acetone	mg/Kg		U	0.02	J		U	0.03	J		U	**0.053**		0.05
Benzene	mg/Kg		U		U		U		U		U	0.0026		0.06
Ethylbenzene	mg/Kg		U		U		U		U		U	0.02		1
Isopropylbenzene	mg/Kg		U		U		U		U		U	0.0017		
m&p-Xylenes	mg/Kg		U	0.0018	J		U		U		U	0.048		0.26
Methyl Acetate	mg/Kg		U		U		U		U		U		U	
Methylcyclohexane	mg/Kg		U		U		U		U		U	0.0019	J	
Methylene chloride	mg/Kg		UJ		UJ		UJ		UJ		UJ		UJ	0.05
o-Xylene	mg/Kg		U		U		U		U		U	0.02		0.26
Toluene	mg/Kg		U		U		U		U		U	0.014		0.7
Trichlorofluoromethane	mg/Kg		U	0.0015	J		U		U		U		U	

Notes:
All analytical data results provided by Hampton Clarke-Veritech
Bold values indicate that the analyte was detected above 6 NYCRR Part 375.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
B = Analyte found in blank and sample
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
mg/kg = milligrams per kilogram (ppm)

Table 11
Summary of Detected Volatile Organic Compounds (VOCs) in Soil Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Test Parameters EPA Method 8260	CLIENT ID:	3-36-027-SS-DUP		3-36-027-SS02DMS		3-36-027-SS02DMSD		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-015		AC33128-005		AC33128-006		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		
1,1,1-Trichloroethane	mg/Kg		U	0.042		0.033		0.68
1,1,2,2-Tetrachloroethane	mg/Kg		U	0.041		0.044		
1,1,2-trichloro-1,2,2-trifluoroethane	mg/Kg		U	0.051		0.039		
1,1,2-Trichloroethane	mg/Kg		U	0.041		0.041		
1,1-Dichloroethane	mg/Kg		U	0.059		0.046		0.27
1,1-Dichloroethene	mg/Kg		U	0.046		0.036		0.33
1,2,4-Trichlorobenzene	mg/Kg		U	0.019		0.019		
1,2-Dibromo-3-chloropropane	mg/Kg		U	0.026		0.029		
1,2-Dibromoethane	mg/Kg		U	0.041		0.04		
1,2-Dichlorobenzene	mg/Kg	0.0015	J	0.031		0.032		1.1
1,2-Dichloroethane	mg/Kg		U	0.044		0.035		0.02
1,2-Dichloropropane	mg/Kg		U	0.046		0.044		
1,3-Dichlorobenzene	mg/Kg		U	0.031		0.031		2.4
1,4-Dichlorobenzene	mg/Kg	0.0014	J	0.03		0.03		1.8
2-Butanone	mg/Kg		U	0.036		0.032		0.12
2-Hexanone	mg/Kg		U	0.021		0.026		
4-Methyl-2-Pentanone	mg/Kg		U	0.037		0.04		
Acetone	mg/Kg	**0.061**	J	**0.18**		**0.15**		0.05
Benzene	mg/Kg	0.019	J	0.046		0.039		0.06
Bromodichloromethane	mg/Kg		U	0.044		0.037		
Bromoform	mg/Kg		U	0.038		0.038		
Bromomethane	mg/Kg		U	0.045		0.034		
Carbon disulfide	mg/Kg		U	0.051		0.037		
Carbon tetrachloride	mg/Kg		U	0.041		0.031		0.76
Chlorobenzene	mg/Kg		U	0.037		0.036		1.1
Chloroethane	mg/Kg		U	0.044		0.034		
Chloroform	mg/Kg		U	0.044		0.035		0.37
Chloromethane	mg/Kg		U	0.046		0.037		
cis-1,2-Dichloroethene	mg/Kg		U	0.041		0.032		0.25
cis-1,3-Dichloropropene	mg/Kg		U	0.041		0.042		
Cyclohexane	mg/Kg	0.013	J	0.058		0.05		
Dibromochloromethane	mg/Kg		U	0.04		0.038		
Dichlorodifluoromethane	mg/Kg		U	0.038		0.029		
Ethylbenzene	mg/Kg	0.19	J	0.04		0.043		1
Isopropylbenzene	mg/Kg	0.013	J	0.037		0.037		
m&p-Xylenes	mg/Kg	**0.31**	J	0.075		0.078		0.26
Methyl Acetate	mg/Kg		U	0.068		0.054		
Methylcyclohexane	mg/Kg	0.043	J	0.041		0.038		
Methylene chloride	mg/Kg		UJ	**0.065**	B	0.046	B	0.05
Methyl-t-butyl ether	mg/Kg		U	0.045		0.037		0.93
o-Xylene	mg/Kg	0.13	J	0.036		0.038		0.26
Styrene	mg/Kg		U	0.037		0.039		
Tetrachloroethene	mg/Kg		U	0.035		0.033		1.3
Toluene	mg/Kg	0.0081		0.039		0.04		0.7
trans-1,2-Dichloroethene	mg/Kg		U	0.051		0.037		0.19
trans-1,3-dichloropropene	mg/Kg		U	0.037		0.038		
Trichloroethene	mg/Kg		U	0.04		0.036		0.47
Trichlorofluoromethane	mg/Kg		U	0.045		0.034		
Vinyl chloride	mg/Kg		U	**0.047**		**0.037**		0.02

Notes:

All analytical data results provided by Hampton Clarke-Veritech

Bold values indicate that the analyte was detected above 6 NYCRR Part 375.

EPA = Environmental Protection Agency

NYSDEC = New State Department of Environmental Conservation

J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

B = Analyte found in blank and sample

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

mg/kg = milligrams per kilogram (ppm)

3-36-027-SS-DUP was collected at 3-36-027-SS01D

Table 12
Summary of Detected Semi-Volatile Organic Compounds (SVOCs) in Soil Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Test Parameters EPA Method 8270	CLIENT ID:	3-36-027-SS01S		3-36-027-SS01D		3-36-027-SS02S		3-36-027-SS02D		3-36-027-SS03S		3-36-027-SS03D		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-001		AC33128-002		AC33128-003		AC33128-004		AC33128-007		AC33128-008		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		
1,1'-Biphenyl	mg/Kg		U	1.3	J		U		U		U	1.5	J	
2-Methylnaphthalene	mg/Kg		U	4.2	J		U		U		U	5.8		
Acenaphthene	mg/Kg		U	3	J		U		U		U	3.9	J	20
Acenaphthylene	mg/Kg		U	0.61	J		U		U		U	0.93	J	100
Anthracene	mg/Kg		U	3.9	J		U		U		U	5.4		100
Benzo[a]anthracene	mg/Kg		U	**3.5**	J		U		U		U	**4.7**		1
Benzo[a]pyrene	mg/Kg		U	**2.7**	J		U		U		U	**4**		1
Benzo[b]fluoranthene	mg/Kg		U	**3.2**	J		U		U		U	**4.2**		1
Benzo[g,h,i]perylene	mg/Kg		U	1.9	J		U		U		U	2.5	J	100
Benzo[k]fluoranthene	mg/Kg		U	0.94	J		U		U		U	1.5	J	0.8
Bis(2-Ethylhexyl)phthalate	mg/Kg	0.04	J	1.7	J	0.037	J	0.53		0.042	J		U	
Butylbenzylphthalate	mg/Kg		U		U		U	0.045	J		U		U	
Carbazole	mg/Kg		U	1.4	J		U		U		U	2	J	
Chrysene	mg/Kg		U	2.9	J		U		U		U	**3.8**	J	1
Dibenzo[a,h]anthracene	mg/Kg		U	0.44	J		U		U		U	**0.57**	J	0.33
Dibenzofuran	mg/Kg		U	2.1	J		U		U		U	3	J	7
Fluoranthene	mg/Kg		U	10	J		U		U		U	14		100
Fluorene	mg/Kg		U	3.5	J		U		U		U	4.8		30
Indeno[1,2,3-cd]pyrene	mg/Kg		U	**1.6**	J		U		U		U	**2.2**	J	0.5
Naphthalene	mg/Kg		U	**18**	J		U		U		U	**23**		12
Phenanthrene	mg/Kg		U	17	J		U		U		U	24		100
Pyrene	mg/Kg		U	11	J		U		U		U	15		100

Notes:

All analytical data results provided by Hampton Clarke-Veritech

Bold values indicate that the analyte was detected above 6 NYCRR Part 375.

EPA = Environmental Protection Agency

NYSDEC = New State Department of Environmental Conservation

J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

B = Analyte found in blank and sample

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

mg/kg = milligrams per kilogram (ppm)

3-36-027-SS-DUP was collected at 3-36-027-SS01D

Table 12
Summary of Detected Semi-Volatile Organic Compounds (SVOCs) in Soil Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Test Parameters EPA Method 8270	CLIENT ID:	3-36-027-SS04S		3-36-027-SS04D		3-36-027-SS05S		3-36-027-SS05D		3-36-027-SS06S		3-36-027-SS06D		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-009		AC33128-010		AC33128-011		AC33128-012		AC33128-013		AC33128-014		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		
Benzo[a]anthracene	mg/Kg	0.17	J	0.052	J		U		U	0.12	J		U	1
Benzo[a]pyrene	mg/Kg	0.19	J	0.042	J		U		U	0.14	J		U	1
Benzo[b]fluoranthene	mg/Kg	0.24	J	0.047	J		U		U	0.17	J		U	1
Benzo[g,h,i]perylene	mg/Kg	0.17	J		U		U		U	0.1	J		U	100
Benzo[k]fluoranthene	mg/Kg	0.092	J		U		U		U	0.091	J		U	0.8
Bis(2-Ethylhexyl)phthalate	mg/Kg	0.1	J	0.59			U	0.053	J	0.064	J	0.32	J	
Chrysene	mg/Kg	0.16	J		U		U		U	0.15	J		U	1
Dibenzo[a,h]anthracene	mg/Kg	0.038	J		U		U		U		U		U	0.33
Fluoranthene	mg/Kg	0.28	J	0.081	J		U		U	0.25	J	0.1	J	100
Indeno[1,2,3-cd]pyrene	mg/Kg	0.15	J		U		U		U	0.08	J		U	0.5
Naphthalene	mg/Kg		U		U		U		U		U	0.07	J	12
Phenanthrene	mg/Kg	0.063	J	0.046	J		U		U	0.067	J	0.15	J	100
Pyrene	mg/Kg	0.3	J	0.089	J		U		U	0.22	J	0.1	J	100

Notes:
All analytical data results provided by Hampton Clarke-Veritech
Bold values indicate that the analyte was detected above 6 NYCRR Part 375.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
B = Analyte found in blank and sample
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
mg/kg = milligrams per kilogram (ppm)
3-36-027-SS-DUP was collected at 3-36-027-SS01D

Table 12
Summary of Detected Semi-Volatile Organic Compounds (SVOCs) in Soil Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Test Parameters EPA Method 8270	CLIENT ID:	3-36-027-SS-DUP		3-36-027-SS02DMS		3-36-027-SS02DMSD		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-015		AC33128-005		AC33128-006		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		
1,1'-Biphenyl	mg/Kg	0.39	J		U		U	
1,2,4-Trichlorobenzene	mg/Kg		U	3.5		3.1		
2,4-Dimethylphenol	mg/Kg		U	7.5		6.9		
2,4-Dinitrotoluene	mg/Kg		U	2.8		2.5		
2-Chlorophenol	mg/Kg		U	7.8	E	7.1		
2-Methylnaphthalene	mg/Kg	1.3	J		U		U	
2-Methylphenol	mg/Kg		U	**7**		**6.5**		0.33
3&4-Methylphenol	mg/Kg		U		U		U	0.33
4-Chloro-3-methylphenol	mg/Kg		U	7.4		7.1		
4-Nitrophenol	mg/Kg		U	6		5.6		
Acenaphthene	mg/Kg	1.1	J	4		3.6		20
Acenaphthylene	mg/Kg	0.22	J		U		U	100
Anthracene	mg/Kg	1.3	J	0.054	J	0.048	J	100
Benzo[a]anthracene	mg/Kg	1.2	J		U		U	1
Benzo[a]pyrene	mg/Kg	1.1	J		U		U	1
Benzo[b]fluoranthene	mg/Kg	1.2	J		U		U	1
Benzo[g,h,i]perylene	mg/Kg	0.74	J		U		U	100
Benzo[k]fluoranthene	mg/Kg	0.33	J		U		U	0.8
Bis(2-Ethylhexyl)phthalate	mg/Kg	0.65	J	0.51			U	
Butylbenzylphthalate	mg/Kg		U	4.8		4.5		
Carbazole	mg/Kg	0.56	J	3.5		3.2		
Chrysene	mg/Kg	0.98	J		U		U	1
Dibenzo[a,h]anthracene	mg/Kg	0.15	J		U		U	0.33
Dibenzofuran	mg/Kg	0.72	J		U		U	7
Di-n-butylphthalate	mg/Kg	0.075	J	0.1	JB		U	
Fluoranthene	mg/Kg	3.7	J		U		U	100
Fluorene	mg/Kg	1.2	J	3.6		3.3		30
Hexachlorobenzene	mg/Kg		U		U		U	0.33
Indeno[1,2,3-cd]pyrene	mg/Kg	0.61	J		U		U	0.5
Naphthalene	mg/Kg	5.3	J	4		3.6		12
N-Nitroso-di-n-propylamine	mg/Kg		U	3.2		2.9		
Pentachlorophenol	mg/Kg		U	**6.6**		**5.7**		0.8
Phenanthrene	mg/Kg	6.3	J		U		U	100
Phenol	mg/Kg		U	**7.1**		**6.6**		0.33
Pyrene	mg/Kg	3.9	J	4.6		4.4		100

Notes:

All analytical data results provided by Hampton Clarke-Veritech

Bold values indicate that the analyte was detected above 6 NYCRR Part 375.

EPA = Environmental Protection Agency

NYSDEC = New State Department of Environmental Conservation

J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

B = Analyte found in blank and sample

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

mg/kg = milligrams per kilogram (ppm)

3-36-027-SS-DUP was collected at 3-36-027-SS01D

Table 13
Summary of Detected Metals in Soil Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Test Parameters EPA Method 6010/7470	CLIENT ID:	3-36-027-SS01S		3-36-027-SS01D		3-36-027-SS02S		3-36-027-SS02D		3-36-027-SS03S		3-36-027-SS03D		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-001		AC33128-002		AC33128-003		AC33128-004		AC33128-007		AC33128-008		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		
Aluminum	mg/Kg	13000		12000		13000		12000		13000		11000		
Arsenic	mg/Kg	6.8		4.5		8.6		5.5		9.1		4.7		13
Barium	mg/Kg	48		51		42		36		33		45		350
Calcium	mg/Kg		U	1400	J		U	1700	J	1200	J	1400	J	
Chromium	mg/Kg	31		16		17		19		19		15		30
Cobalt	mg/Kg	11		8.2		14		12		14		8.9		
Copper	mg/Kg	37	J	21	J	36	J	130	J	41	J	24	J	50
Iron	mg/Kg	45000		20000		28000		29000		31000		22000		
Lead	mg/Kg	26	J	16	J	19	J	29	J	20	J	12	J	63
Magnesium	mg/Kg	6200	J	4000	J	6300	J	5800	J	7500	J	4300	J	
Manganese	mg/Kg	720		780		1700		600		760		730		1600
Nickel	mg/Kg	26		19		26		25		28		21		30
Potassium	mg/Kg	900		770		940		910		1000		890		
Vanadium	mg/Kg	19		19		19		17		18		17		
Zinc	mg/Kg	98	J	55	J	65	J	190	J	74	J	54	J	109

Notes:

All analytical data results provided by Hampton Clarke-Veritech

Bold values indicate that the analyte was detected above 6 NYCRR Part 375.

EPA = Environmental Protection Agency

NYSDEC = New State Department of Environmental Conservation

J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

B = Analyte found in blank and sample

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

mg/kg = milligrams per kilogram (ppm)

Table 13
Summary of Detected Metals in Soil Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Test Parameters EPA Method 6010/7470	CLIENT ID:	3-36-027-SS04S		3-36-027-SS04D		3-36-027-SS05S		3-36-027-SS05D		3-36-027-SS06S		3-36-027-SS06D		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-009		AC33128-010		AC33128-011		AC33128-012		AC33128-013		AC33128-014		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		
Aluminum	mg/Kg	11000		12000		12000		13000		12000		13000		
Arsenic	mg/Kg	5.6		5.2		8.2		4.1		5.6		5.4		13
Barium	mg/Kg	34		50		52		62		29		65		350
Calcium	mg/Kg		U	1700	J	2600	J	1200	J		U		UJ	
Chromium	mg/Kg	16		16		17		18		15		16		30
Cobalt	mg/Kg	11		10		11		12		13		9.4		
Copper	mg/Kg	33	J	27	J	31	J	30	J	35	J	23	J	50
Iron	mg/Kg	23000		23000		22000		27000		25000		22000		
Lead	mg/Kg	23	J	13	J	73	J	12	J	24	J	19	J	63
Magnesium	mg/Kg	6500	J	5000	J	4500	J	4700	J	6800	J	4400	J	
Manganese	mg/Kg	1100		610		530		960		1200		330		1600
Nickel	mg/Kg	23		25		23		27		24		26		30
Potassium	mg/Kg	910		940		1000		1000		830		1100		
Vanadium	mg/Kg	16		18		19		19		16		19		
Zinc	mg/Kg	67	J	60	J	65	J	72	J	64	J	64	J	109

Notes:

All analytical data results provided by Hampton Clarke-Veritech

Bold values indicate that the analyte was detected above 6 NYCRR Part 375.

EPA = Environmental Protection Agency

NYSDEC = New State Department of Environmental Conservation

J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

B = Analyte found in blank and sample

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

mg/kg = milligrams per kilogram (ppm)

Table 13
Summary of Detected Metals in Soil Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Test Parameters EPA Method 6010/7470	CLIENT ID:	3-36-027-SS-DUP		3-36-027-SS02DMS		3-36-027-SS02DMSD		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-015		AC33128-005		AC33128-006		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		
Aluminum	mg/Kg	12000		13000		15000		
Antimony	mg/Kg		U	47		43		
Arsenic	mg/Kg	4.8		65		55		13
Barium	mg/Kg	50		110		100		350
Beryllium	mg/Kg		U	55		52		7.2
Cadmium	mg/Kg		U	56		52		2.5
Calcium	mg/Kg	4400	J	7100		6500		
Chromium	mg/Kg	16		73		69		30
Cobalt	mg/Kg	9.6		63		61		
Copper	mg/Kg	27	J	98		82		50
Iron	mg/Kg	22000		26000		23000		
Lead	mg/Kg	15	J	99		68		63
Magnesium	mg/Kg	4600	J	10000		10000		
Manganese	mg/Kg	840		740		1200		1600
Mercury	mg/Kg		U	2.2		2.1		0.18
Nickel	mg/Kg	22		76		74		30
Potassium	mg/Kg	1100		6100		5900		
Selenium	mg/Kg		U	54		52		3.9
Silver	mg/Kg		U	11		9.5		2
Sodium	mg/Kg		U	5600		5300		
Thallium	mg/Kg		U	57		54		
Vanadium	mg/Kg	18		79		70		
Zinc	mg/Kg	63	J	1100		110		109

Notes:

All analytical data results provided by Hampton Clarke-Veritech

Bold values indicate that the analyte was detected above 6 NYCRR Part 375.

EPA = Environmental Protection Agency

NYSDEC = New State Department of Environmental Conservation

J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

B = Analyte found in blank and sample

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

mg/kg = milligrams per kilogram (ppm)

3-36-027-SS-DUP was collected at 3-36-027-SS01D

Table 14
Summary of Detected PCBs in Soil Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Test Parameters EPA Method 8082	CLIENT ID:	3-36-027-SS01S		3-36-027-SS01D		3-36-027-SS02S		3-36-027-SS02D		3-36-027-SS03S		3-36-027-SS03D		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-001		AC33128-002		AC33128-003		AC33128-004		AC33128-007		AC33128-008		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		
Aroclor-1016	mg/Kg		U		U		U		U		U		U	0.1
Aroclor-1260	mg/Kg		U		U		U		U		U		U	0.1

Test Parameters EPA Method 8082	CLIENT ID:	3-36-027-SS04S		3-36-027-SS04D		3-36-027-SS05S		3-36-027-SS05D		3-36-027-SS06S		3-36-027-SS06D		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-009		AC33128-010		AC33128-011		AC33128-012		AC33128-013		AC33128-014		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		9/20/2007		
Aroclor-1016	mg/Kg		U		U		U		U		U		U	0.1
Aroclor-1260	mg/Kg		U		U		U		U		U		U	0.1

Test Parameters EPA Method 8082	CLIENT ID:	3-36-027-SS-DUP		3-36-027-SS02DMS		3-36-027-SS02DMSD		NYSDEC Part 375 Guidance Values
	LAB ID:	AC33128-015		AC33128-005		AC33128-006		
	COLLECT DATE:	9/20/2007		9/20/2007		9/20/2007		
Aroclor-1016	mg/Kg		U	0.56	U	0.52	U	0.1
Aroclor-1260	mg/Kg		U	0.53	U	0.49	U	0.1

Notes:

All analytical data results provided by Hampton Clarke-Veritech

Bold values indicate that the analyte was detected above 6 NYCRR Part 375.

EPA = Environmental Protection Agency

NYSDEC = New State Department of Environmental Conservation

J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

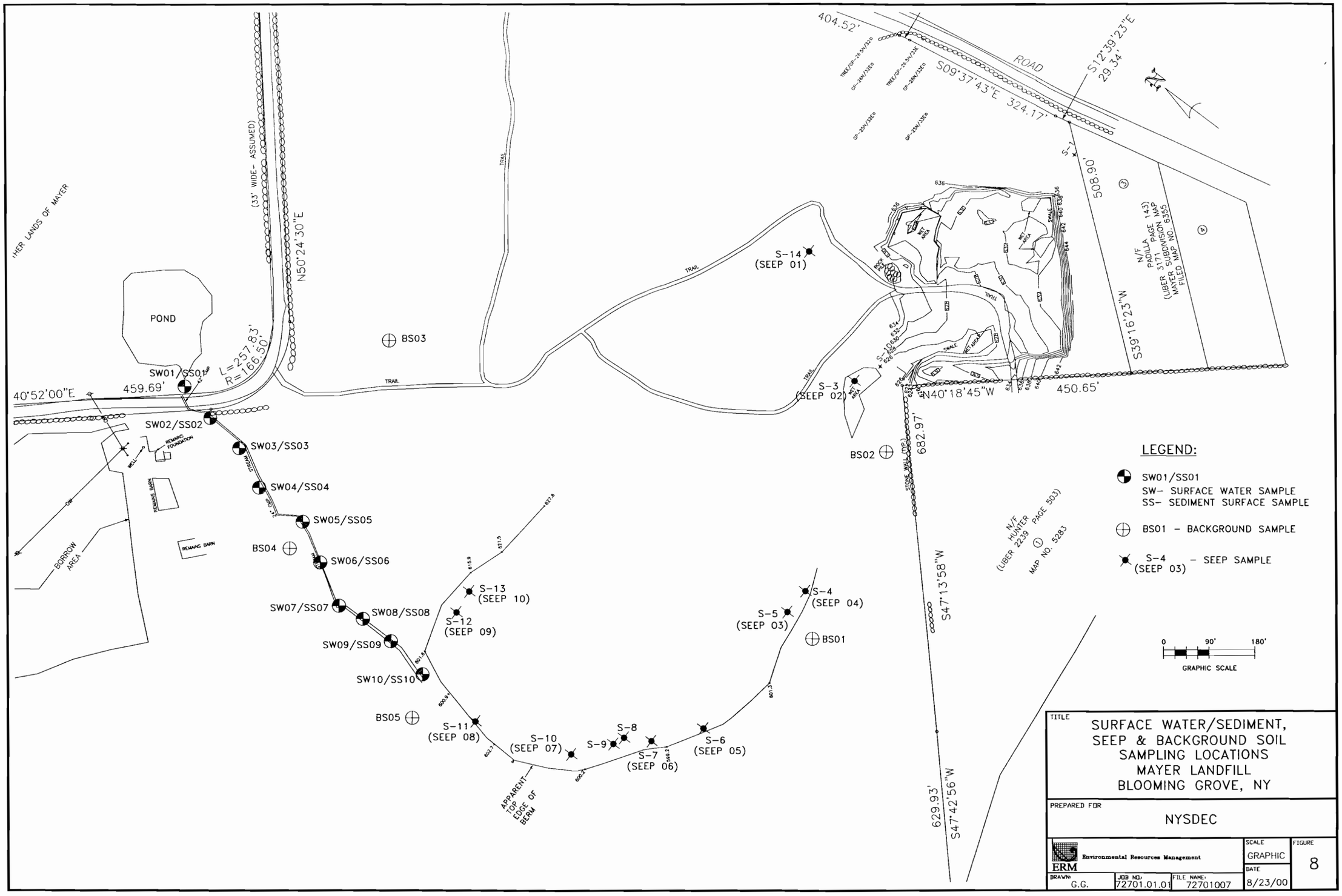
B = Analyte found in blank and sample

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

mg/kg = milligrams per kilogram (ppm)

3-36-027-SS-DUP was collected at 3-36-027-SS01D

APPENDIX A Exhibit 8
LEACHATE DATA PACKAGE



TITLE

SURFACE WATER/SEDIMENT, SEEP & BACKGROUND SOIL SAMPLING LOCATIONS
MAYER LANDFILL
BLOOMING GROVE, NY

PREPARED FOR

NYSDEC

Environmental Resources Management
ERM

DRAWN	JOB NO.	FILE NAME	SCALE	DATE	FIGURE
G.G.	72701.01.01	72701007	GRAPHIC	8/23/00	8

TABLE 26
Target Compound List Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Leachate Samples
June, 2000

ANALYTE	SEEP01 70916002 ug/l	DUP061500 70916001 ug/l dup of SEEP01	SEEP02 70916003 ug/l	SEEP03 70998002 ug/l	SEEP04 70098001 ug/l	SEEP05 70998004 ug/l	SEEP06 70998003 ug/l	SEEP07 70998005 ug/l	SEEP08 70998006 ug/l	SEEP09 70998008 ug/l
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U	10 U	10 U	**3** J	**4** J	**5** J	10 U
Carbon Disulfide	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (Total)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	10 U	10 U	**3** J	10 U	**3** J	10 U	**2** J	**3** J	10 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	**14**	**5** J	**62**	10 U	**10**	10 U	**22**	**100**	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (Total)	10 U	10 U	**34**	10 U	10 U	10 U	**1** J	10	10 U	10 U

Bolded: Detected Concentration

TABLE 26
Target Compound List Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Leachate Samples
June, 2000

ANALYTE	SEEP10 70998009 ug/l	FB062900 70998010 ug/l	TB061500 70916004 ug/l	TB062900 70998011 ug/l
Chloromethane	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U
Methylene Chloride	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U
Carbon Disulfide	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U
1,2-Dichloroethene (Total)	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U
2-Butanone	10 UJ	10 UJ	10 U	10 UJ
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U
Dibromochloromethane	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U
Benzene	**2 J**	10 U	10 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U
Chlorobenzene	**18**	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U
Xylene (Total)	**5 J**	10 U	10 U	10 U

Bolded: Detected Concentration

TABLE 27
Target Compound List Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Leachate Samples
June, 2000

ANALYTE	SEEP01 70916002 ug/l	DUP061500 70916001 ug/l dup of SEEP01	SEEP02 70916003 ug/l	SEEP03 70998002 ug/l	SEEP04 70998001 ug/l	SEEP05 70998004 ug/l	SEEP06 70998003 ug/l	SEEP07 70998005 ug/l	SEEP08 70998006 ug/l	SEEP09 70998008 ug/l	SEEP10 70998009 ug/l
Phenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(-2-Chloroethyl)Ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	2 J	1 J	6 J	1 J	3 J	10 U	5 J	10	1 J	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	1 J	10 U	10 U	10 U	2 J	3 J	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2-oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethyphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	1 J	10 U	6 J	10 U	2 J	10 U	5 J	15	10 U	10 U	3 J
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	1 J	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	2 J
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 27
Target Compound List Semi Volatile Organic Compounds
Mayer Landfill, Blooming Grove, NY
Leachate Samples
June, 2000

ANALYTE	SEEP01 70916002 ug/l	DUP061500 70916001 ug/l dup of SEEP01	SEEP02 70916003 ug/l	SEEP03 70998002 ug/l	SEEP04 70998001 ug/l	SEEP05 70998004 ug/l	SEEP06 70998003 ug/l	SEEP07 70998005 ug/l	SEEP08 70998006 ug/l	SEEP09 70998008 ug/l	SEEP10 70998009 ug/l
Fluorene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	**3 J**	**2 J**	**3 J**	10 U	**1 J**	10 U	10 U	**1 J**	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Bolded: Detected Concentration

TABLE 28
Target Compound List Pesticides/PCBs
Mayer Landfill, Blooming Grove, NY
Leachate Samples
June, 2000

ANALYTE	SEEP01 70916002 ug/l	DUP061500 70916001 ug/l dup of SEEP01	SEEP02 70916003 ug/l	SEEP03 70998002 ug/l	SEEP04 70998001 ug/l	SEEP05 70998004 ug/l	SEEP06 70998003 ug/l	SEEP07 70998005 ug/l	SEEP08 70998006 ug/l	SEEP09 70998008 ug/l	SEEP10 700998009 ug/l
alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan Sulfate	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Endrin Ketone	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin Aldehyde	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
alpha-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Toxaphene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Aroclor-1016	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Aroclor-1232	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1248	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Bolded: Detected Concentration

TABLE 29
Target Analyte List Inorganics
Mayer Landfill, Blooming Grove, NY
Leachate Samples
June, 2000

ANALYTE	SEEP01 70916002 ug/l	DUP061500 70916001 ug/l dup of SEEP01	SEEP02 70916003 ug/l	SEEP03 70998002 ug/l	SEEP04 70998001 ug/l	SEEP05 70998004 ug/l	SEEP06 70998003 ug/l	SEEP07 70998005 ug/l	SEEP08 70998006 ug/l	SEEP08F 70098007 ug/l FILTERED	SEEP09 70998008 ug/l	SEEP10 70998009 ug/l
Aluminum	4320 J	5570 J	NR	29300	27.6 B	43.5 B	590	42.8 B	74.3 B	230	2180	77.6 B
Antimony	5.2 B	5 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Arsenic	4 U	4 U	4 U	7.6 B	2.4 B	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Barium	216	208	211	434	300	160 B	363	240	202	166 B	48.6 B	270
Beryllium	0.2 U	0.22 B	0.2 U	1.3 B	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	3.5 B	3.6 B	5.5	16	0.54 B	0.2 U	6.2	6	3.1 B	3 B	0.41 B	6.1
Calcium	103000	104000	65100	131000	55300	68500	73600	95100	76400	53300	19500	93400
Chromium	0.53 B	2.4 B	0.4 U	42.9	1.9 B	0.4 U	5.7 B	3.8 B	2.5 B	2.8 B	3.2 B	4.9 B
Cobalt	26 B	25.9 B	3.1 B	43.2 B	6.1 B	2.1 B	8.7 B	5.7 B	11.8 B	7.1 B	1.8 B	6.6 B
Copper	7.9 B	9.7 B	0.5 U	72.1	4.2 B	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Iron	60000	61200	101000	164000	6280	1360	72200	69800	38100	37100	4590	71700
Lead	5.4	8.1	3 U	46	2.6 B	2 U	2 U	2 U	2 U	2 U	3.5	2 U
Magnesium	9760	10500	8030	22200	31400	16300	22700	19200	10600	7460	3210 B	13000
Manganese	13400	12900	NR	7960	327	712	2080	757	1430	711	493	1610
Mercury	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.13 U	0.13 U	0.13 U
Nickel	31.4 B	32.5 B	13.4 B	108	22 B	9.6 B	28.8 B	21.7 B	24.5 B	16.7 B	6.7 B	19.6 B
Potassium	5650	5910	9930	14700	99600	27700	58500	41500	18500	13100	6260	15500
Selenium	68.9	76.1	88.5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	7.1 J	8.1 J	11.6 J	30.3	5 J	5 J	13.8 J	13.2 J	7.3 J	7.2 J	5 J	13.4
Sodium	9240	9540	8850	17200	219000	33700	112000	70400	23600	14100	3650 B	19600
Thallium	11.3 J	6 U	6 U	2.1 B	7.7 B	5.5 B	2 U	5.4 B	3.7 B	2.3 B	2 U	4.4 B
Vanadium	5.7 B	8.9 B	0.95 B	2 U	53.6	29.5 B	2 U	2 U	2 U	2 U	5.5 B	2 U
Zinc	30.7	41.1	6.7 B	238	12.3 B	5 U	24.6	14.8 B	5 U	6.4 B	13.9 B	11.2 B
Cyanide	2 U	3 B	2 U	3.2 B	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

NR: No Result
Bolded: Detected Concentration