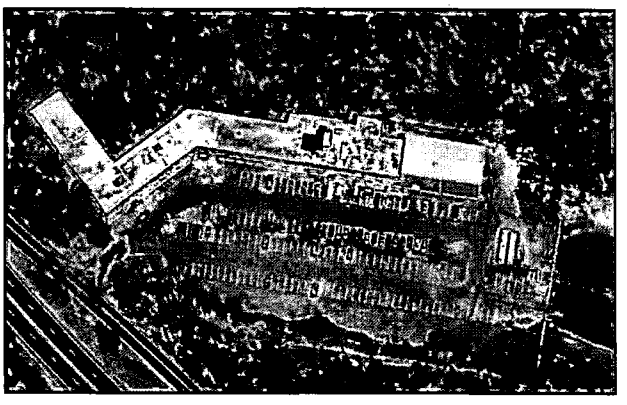
SITE CHARACTERIZATION / PRELIMINARY REMEDIAL INVESTIGATION REPORT

DP 16 LLC
ONE COMMERCE PARK SITE
115 WALL STREET
VALHALLA, NEW YORK



Prepared for:

Ms. Karen Maiurano
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7014

Prepared by:

Apex Companies, LLC
120-D Wilbur Place
Bohemia, New York 11716

September 13, 2010

Apex Companies, LLC
120-D Wilbur Place
Bohemia, New York 11716-2440
Phone: (631) 567-1777 Fax: (631) 567-1967

TABLE OF CONTENTS:

TABLES:

FIGURES:

APPENDICES:

SITE CHARACTERIZATION / PRELIMINARY REMEDIAL INVESTIGATION REPORT

DP 16 LLC
ONE COMMERCE PARK SITE
115 WALL STREET
VALHALLA, NEW YORK

1.0 INTRODUCTION AND BACKGROUND

This Site Characterization / Preliminary Remedial Investigation Report (SC / PRI Report) outlines the investigation activities conducted at the One Commerce Park Site (hereinafter referred to as the "Subject Property") located at 115-117 Wall Street in Valhalla, New York (see ***Figure 1-1***: Site Location Map). According to the June 21, 2009 New York State Department of Environment Conservation (NYSDEC) Order on Consent, the Subject Property is not currently listed in the New York State Registry of Inactive Hazardous Waste Sites, although the Order references Site # 360054.

The NYSDEC required that the SC / PRI be conducted at the Subject Property based upon the following:

- As part of RI activities conducted circa 2000 at the southeastern adjoining property known as the Farrand Controls Site (NYSDEC Site Registry No. 3-60-046) located at 99 Wall Street, a groundwater volatile organic compound (VOC) plume possibly attributed to an upgradient site was identified; and,
- The Subject Property, which was indicated to be upgradient or crossgradient to the Farrand Controls Site, was once owned and operated by the Farrand Corporation. Therefore, the NYSDEC has indicated that halogenated solvents similar to those found at the 99 Wall Street property may have been utilized and / or disposed of on the Subject Property historically.

The investigation activities conducted at the Subject Property to assess the foregoing assertions included the following general scope of work:

- A comprehensive document review, employee interview task, and site inspection task to evaluate the Subject Property with respect to the presence and locations where hazardous materials are or may have been stored, handled and / or disposed of on-site;
- Completion of a geophysical survey to determine if reported, historic sanitary waste disposal system(s) is / are still present on the Subject Property and if so, to determine their configuration. The geophysical survey was also conducted to mark out on-site, sub-surface utilities (that were not addressed through public mark out call-in numbers);

- Collection and analyses of soil vapor samples from beneath and adjacent to the building envelope utilizing a passive soil vapor survey technique;

- Collection and analyses of multi-depth soil and groundwater samples from possible on-site Areas of Concern (AOCs) identified during the document review and soil vapor sampling phase of the project. Multi-depth soil and groundwater grab samples were collected utilizing the Geoprobe drilling technique; and,

- The installation and sampling of permanent groundwater monitoring wells at multiple depths within the overburden deposits. Well locations were optimized based upon Geoprobe and soil vapor data, as well as taking into account site access restrictions.

All of the work was conducted in accordance with the NYSDEC-approved SC / PRI Work Plan, Site Health and Safety Plan (HASP), and the Quality Assurance Project Plan (QAPP), all of which were dated November 10, 2009 and approved by the NYSDEC on November 17, 2009.

1.1 Objectives

The SC / PRI Program was designed to meet the following project-specific objectives:

- Evaluate on-site, historic and current chemical use and waste disposal practices in order the identify and evaluate specific AOCs for subsequent evaluation;

- Investigate and confirm the presence of on-site source areas of contamination at AOCs indentified above via the collection and analyses of soil vapor samples;

- Confirm the presence of impacted groundwater, if any, observed on the Subject Property;

- Collect sufficient elevation data to confirm the potentiometric surfaces of the shallow, intermediate and deep portions of the aquifer and the inferred groundwater flow direction;

- Investigate possible historic and current upgradient groundwater contaminants migrating onto the Subject Property;

- Complete sufficient groundwater flow direction, topographic data, and preferential pathway analyses on the Subject Property to evaluate the possibility of a relationship between contamination found underlying the Subject Property, if any, and the adjacent Farrand Controls property. This objective focused on the impacted areas on the Farrand Controls property specifically attributed by the NYSDEC to be the result of an "*apparent upgradient source*;" and,

- Meet the RI requirements set forth by the NYSDEC and USEPA to eliminate or limit the need for additional investigation activities given the information provided within this SC / PRI Report.

1.2 Site Description and Location

As shown in ***Figure 1-1*** and ***Figure 1-2,*** the Subject Property encompasses a 10.001-acre parcel of land currently improved with an approximate 63,000 square foot (sf), two-story industrial / office building and an associated parking lot. The Subject Property has an address of 115-117 Wall Street and is located within the Village of Valhalla, Town of Mount Pleasant, Westchester County, New York and has been assigned Town Tax Map No. Section 117.6 – Bock 1 – Lot 40. The Subject Property is also known as One Commerce Park and Three Commerce Park. The Subject Property is located on the east side of the Taconic State Parkway, near the intersection of Wall Street and Commerce Street.

The following provides a description of the Subject Property exterior of the building envelope, as well as surrounding property uses based upon the information currently available;

- The northern portion of the site is dominated by undeveloped woodland with an approximately 40-foot increase in topographic elevation from the building to the north property boundary. There are visually-apparent bedrock outcrops in the area of topographic elevation increase. The northern property line abuts against property owned by the City of New York associated with the Catskill Aqueduct. The Mt. Eden Cemetery is present to the north of the aqueduct right-of-way;

- The eastern portion of the property consists of undeveloped woodland and paved parking areas. Off-site to the east / southeast lies the Farrand Control Site (99 Wall Street) and additional undeveloped woodland. A residential development is present further to the east;

- The southern portion of the property is improved with paved parking areas and access roads, followed by an area of vegetated wetlands. Adjacent to the wetlands is the Taconic State Parkway, followed by the Kensico Cemetery; and,

- The western portion of the property is dominated by a small portion of undeveloped woodlands. The adjacent property includes the Taconic State Parkway, followed by the Gate of Heaven Cemetery.

1.3 Overview of Regional Geology / Hydrogeology

According to the Ground Water Atlas of the United States (Segment 12 – USGS), the geologic formations found throughout Westchester County consist primarily of the Manhattan Prong, a part of the New England upland physiographic province. The Manhattan Prong extends from New England through Westchester County to the southern tip of Manhattan

and consists largely of metamorphic rock formations. Multiple mountain building events have results in north-south trending bedrock features of differing geologic formations.

According to the Soil Survey and Putnam and Westchester Counties, New York, the Valhalla region is underlain by Manhattan Formation schist and gneiss. There are also mapped occurrences of the Inwood Marble Formation along the Saw Mill River Parkway to the west of the Subject Property.

Westchester County has been affected by glaciations beginning nearly 300,000 years ago. The general direction of recent continental glaciations was typically from the north to the south. Glaciers from that period preferentially eroded out the "weaker" underlying geologic formations, which has resulted in the approximately north-south trending series of valleys and ridges observed throughout Westchester County. The ridges typically consist of "harder" geologic formations while the valleys are typically underlain by "softer" geologic formations.

With the final retreat of the glaciers approximately 10,000 years ago, the terrain in the vicinity of the Subject Property was dominated by a series of north-south trending ridges consisting of hard bedrock material and associated "U" shaped valleys partially filled by re-worked moraine deposits. Over the last 10,000 years, rivers and stream have developed in the valleys, typically running from north to south, which have further filled the valleys. As such, many of the local valleys exhibit a truncated "U" shape with steep walls consisting of bedrock, which are filled with glacial till and fluvial deposits. Large and small lakes can also form in the valleys, post-retreat of the glaciers. Lacustine, or lake, deposits are typified by flat-lying silt and clay layers. Fluvial silt deposits are often discontinuous over relatively short distances.

Mass wasting processes along the valley walls can result in the deposition of high-energy type sands and gravels along the edges of the valleys (e.g., alluvial fans) which inter-finger into the more distal fluvial deposits.

There are two (2) aquifer types underlying the Valhalla area, including:

- **Valley Fill Aquifers** – groundwater accumulates in the sand and gravel of the valley-fill materials. Groundwater flow direction is typically in the down-valley direction. Due to human-related development in the flatter-lying valleys, groundwater in valley fill aquifers is often susceptible to anthropogenic impacts; and,
- **Fractured Bedrock Aquifers** – groundwater can migrate into and accumulate into bedrock. Bedrock aquifers are typically characterized by distinct saturated fracture zones. The migration flow pathways of groundwater in bedrock fractures are not typically driven by overlying topographic conditions (e.g., the groundwater does not necessarily flow downhill as in Valley Fill aquifers), rather the flow direction is driven by overall potentiometric pressure conditions, as well as preferential fracture orientations, exerted on the bedrock system. As such, "flow" direction in fractured

bedrock aquifers is typically defined through the installation of piezometers and / or monitoring wells.

As the Subject Property is located on the periphery of a valley, and there are adjacent wetlands, the depth to water is expected to be relatively shallow in the valley fill aquifer. The local groundwater flow direction is likely to be to the south-southwest, towards the adjacent wetlands and at least partially in the down-valley direction.

Site-specific geology and hydrogeology are discussed in detail in ***Sections 3.4.2*** and ***3.5.2***, respectively.

1.4 Environmental History

As discussed previously, one of the primary NYSDEC drivers for conducting this SC / PRI was to complete an evaluation of an alleged "*apparent upgradient source*" of contamination on the Farrand Controls property. The Subject Property is the suspected "*apparent upgradient source*" and the NYSDEC required that the investigation be conducted to determine the nature and extent of contamination on the Subject Property, and whether a link exists between any contamination found on the two (2) sites. To assess such potential linkage, the environmental history of both sites was reviewed. The following sections summarize the known environmental history and issues at the two (2) properties prior to the conduct of the SC / PRI. All referenced reports for the Subject Property were previously provided to the NYSDEC on July 22, 2009 as part of the Records Search Report required by the Order.

1.4.1 Subject Property Documents

The following documents were available for review regarding the Subject Property and considered in the development of the SC / PRI scope of work:

- May 1, 1998: Phase I Environmental Site Assessment (ESA) Report prepared by Detail Associates, Inc. for the Subject Property;
- January 14, 2003: Phase I ESA Report prepared by IES for the Subject Property;
- March 2003: Phase II ESA Report prepared by Ira D. Conklin & Sons, Inc. for the Subject Property;
- June 30, 2003: correspondence prepared by Team Environmental Consultants, Inc. (TEC) for the Subject Property providing a summary of previous investigations;
- June 2, 2005: NYSDEC communications and draft Order for the Subject Property which is referred to as the "Praedium II" Site and has been assigned NYSDEC Site No. 3-60-054; and,

- February 26, 2009: NYSDEC communications and draft Order for the Subject Property which is referred to as the "One Commerce Park" Site and has been assigned NYSDEC Site No. 3-60-054.

Each of these is discussed further in ***Section 1.3.3***.

1.4.2 Farrand Controls Site Property

The following documents were available for review regarding the neighboring Farrand Controls property and were considered in the development of the SC / PRI scope of work:

- August 2000: Remedial Investigation (RI) Report prepared by Dvirka and Bartilucci Consulting Engineers (D&B) for the adjacent Farrand Control Site located at 99 Wall Street; and,

- March 2002: NYSDEC Record of Decision (ROD) for the adjacent Farrand Controls Site located a 99 Wall Street.

Each of these is discussed further in the following section of this SC / PRI Report.

1.4.3 Environmental History Discussion

Based upon the review of the aforementioned reports, the Subject Property was part of an overall property first developed in 1958 by Farrand Controls (and / or its subsidiaries) which utilized the on-site building for industrial-manufacturing and office use through approximately 1990 when the 115-117 Wall Street portion of the Farrand Controls facility (i.e., the Subject Property) was purchased by Messenger Realty (Messenger). In the 2003 Phase I ESA Report, it was reported that DEL Global Technologies (a former tenant), which was on-site from 1991 through at least 2003, generated one (1) 55-gallon drum of waste trichloroethene (TCE) approximately every ten (10) weeks.

The reports indicate that the building on the Subject Property had always been heated via a natural gas fired system and there are reportedly no historic or current underground storage tanks (UST) or aboveground storage tanks (AST). There were conflicting reports relating to sanitary waste disposal, with one report indicating that the Subject Property was equipped with an on-site sanitary waste disposal system and another reporting that the Subject Property was attached to the municipal sewer system.

The results of the above-referenced Phase II ESA Report, which did not identify any significant site-related impacts, were limited in value as:

- There was limited documentation as to the selection criteria for the six (6) soil sampling locations (i.e., it cannot be determined if sample locations were appropriate without additional information). Although the rationale behind sample location selection is not provided, two (2) of the on-site soil samples

contained TCE at concentrations below the NYSDEC threshold of concern. The fact that TCE was detected, even at low concentrations, indicates that additional investigation may be warranted; and,

- Due to the selected sampling methodology, only one (1) groundwater sample was collected and analyzed from the shallow unconsolidated sediments (e.g., valley fill sediments) underlying the Subject Property. No on-site sampling was conducted in the underlying semi-consolidated or bedrock where monitoring wells located on the adjacent Farrand Controls Site (allegedly downgradient of the Subject Property) have reportedly indicted evidence of halogenated VOCs.

The TEC correspondence provides a summary of the previous investigations. Further, the document provides a summary of activities conducted to evaluate suspect piping. While the piping reportedly proved not to be associated with a UST system, a hand-drawn site sketch indicates the presence of a "*sump pit for groundwater.*" One of the reported sources of contamination at the adjacent Farrand Controls Site was an internal "*sump pit.*"

The NYSDEC RI Report and ROD for the adjacent Farrand Controls Site provides summaries of site hydrogeologic conditions and contaminant nature and extent at that site. In addition, the document also references an "*apparent upgradient source*" across the northwest property line, an apparent reference to the Subject Property. The following is a summary of significant information included in the Farrand Controls site ROD with possible relevance to the Subject Property SC / PRI:

- The groundwater flow direction at the property line between the Subject Property and the Farrand Controls Site has been identified as to the south; therefore, the Subject Property is reportedly located upgradient and / or crossgradient of the 99 Wall Street Property;

- The ROD includes the following discussion:

  "A second plume of contaminated groundwater from an apparent up-gradient source has migrated from the north across the Farrand Controls northwestern property line. . . The NYSDEC will investigate the source of this plume separately from the Farrand Controls project;[1]*"* and,

- The RI Report indicates that selected halogenated VOCs were present in the deep overburden above the bedrock at the northwestern portion of the Farrand Control site (i.e., immediately adjacent to and reportedly downgradient or crossgradient of the Subject Property).

---

[1] *This SC / PRI Report documents the investigation referenced in the ROD.*

During a March 11, 2009, preliminary site walk / inspection, Apex observed the following potential AOCs that have been evaluated as part of this SC / PRI: 1) two (2) truck loading bays; 2) a dumpster / debris staging area; 3) an area where empty drums were staged; and, 4) a concrete pad which may have potentially been utilized for drum storage purposes. Although not inspected on March 11th, the groundwater sump reported in the TEC correspondence located within the on-site building also represented an AOC. The on-site locations of the aforementioned AOCs are indicated on ***Figure 1-2***.

2.0 ADDITIONAL RECORDS REVIEW AND EMPLOYEE INTERVIEWS

The purpose of this section of the SC / PRI Report is to provide a summary of the document review / employee interview tasks.

2.1 Environmental Database Review

Apex reviewed information gathered from the Environmental Protection Agency (EPA) and State of New York environmental databases through Environmental Data Resources, Inc. (EDR) to evaluate activities on or near the Subject Property. EDR reviewed databases compiled by Federal and State government agencies. The complete list of databases reviewed by EDR is provided in their report, which is included as ***Appendix A*** of this report. The information is reported as Apex received it from EDR, which in turn reports information as it is provided from various government databases. It is not possible for either Apex or EDR to verify the accuracy or completeness of information contained in these databases. However, the use of, and reliance on, this information is a generally-accepted practice in the conduct of environmental due diligence. Additionally, EDR acquired available historic topographic maps, aerial photographs and Sanborn Fire Insurance maps.

2.1.1 Historic Topographic Maps

Historic USGS topographic maps were available for 1902, 1938, 1967, 1979 and 1994. Review of these maps indicated the following:

- In 1902 and 1938, there were no buildings or other improvements indicated on the Subject Property or the adjacent Farrand Controls Site;
- In 1967, there are no improvements on the Subject Property; however, it appears that there are two (2) buildings on the adjacent Farrand Controls Site (the main manufacturing building and a tennis court building); and
- On the 1979 and 1994 maps, the building on the Subject Property appears to be present in its approximate current configuration. No significant changes are evident with respect to the adjacent Farrand Controls Site, although the main building is not as extensive in length compared to its current configuration.

Based upon the available historic topographic maps, the building on the Subject Property was constructed between 1967 and 1979. Infrastructure associated with the adjacent Farrand Controls Site was constructed between 1938 and 1967.

In general, the portions of the Subject Property and the adjacent Farrand Controls Site are relatively level with a several-foot decrease in elevation to the south – southwest. The vegetated northern portions of both properties are dominated by steep bedrock outcrops, with overall increases in elevation on the order of 60 or more feet to the adjacent ridge top.

2.1.2 Aerial Photographs

Historic aerial photographs were available for 1953, 1954, 1964, 1965, 1973 (poor resolution), 1974, 1984 (poor resolution), 1994 and 2006. Review of these aerial photographs indicated the following:

- In 1953 and 1954, the Subject Property and adjacent Farrand Controls Site appear to be vacant wood- and grass-land;
- In 1964 and 1965, the Subject Property still appears to consist of vacant and un-improved land; however, some potential disturbance is evident, although no above-grade infrastructure is visible. The tennis court structure and the southern portion of the adjacent Farrand Controls Site building is evident, although the building is much smaller than its present configuration;
- In 1974, the Subject Property is improved with the current structure, although it is not as extensive to the east where a storage building / garage were later constructed. The building on the adjacent Farrand Controls Site has been built out to its approximate current configuration; and,
- In 1994 and 2006, the buildings on both the Subject Property and the adjacent Farrand Controls Site appear to be in their approximate current configuration.

Based upon the available historic aerial photographs, the building on the Subject Property was constructed between 1965 and 1974. Infrastructure associated with the adjacent Farrand Controls Site was constructed between 1954 and 1964.

In the 1950s, the vicinity of the Subject Property was dominated by undeveloped woodlands, with several nearby cemeteries evident. What appears to be sparse residential development is present to the southeast. In the 1960s, additional development of cemetery properties and residential communities are observed. Similar conditions with increases in cemetery and residential development are present through 2006.

2.1.3 City Directory Search

Apex contracted EDR to conduct a search for City Directory listings for the Subject Property and surrounding properties. Apex reviewed city directory listings for the years spanning 1971 through 2007; however, these years are not necessarily inclusive. Please note that the below company names are provided verbatim from the report.

The Subject Property (i.e., 115 and 117 Wall Street) was included within the City Directory Search, as follows:

115 Wall Street

Year	Use
2007	Select Telecom / The Cliff
2001	Prdm II Valhalla Llc
1997	Del Electrncs Corp
1992	Ferrand Industries
1987	Ferrand Industries

117 Wall Street

Year	Use
1987	Farrand Optcl Co Inductosyn Corp
1981	Farrand Optcl Co Inductosyn Corp
1976	Farrand Optcl Co Inductosyn Corp

The adjacent Farrand Controls Site was included within the City Directory Search, as follows:

99 Wall Street

Year	Use
2007	Farrand Optical Components & Instrum Optical Technology Devices Ruhle Cos Inc Controls Div Farr
2001	Farrand Controls Div
1997	Farrand Controls Div
1992	Farrand Controls Div Holographic Optic Cole

1987	Farrand Controls Div
1976	Farrand Contrls Inc
1971	Farrand Contrls Inc

The results of the City Directory search indicate that Farrand Controls, Inc. was a tenant of the Subject Property by circa 1976 and at the 99 Wall Street property by 1971.

2.1.4 Sanborn Maps

1942 was the only year for which the Sanborn maps were available for the vicinity of the Subject Property, which was shown as undeveloped.

2.1.5 Database Report

Apex reviewed information gathered from the EPA and State of New York environmental databases by EDR to evaluate activities on or near the Subject Property. The complete list of databases reviewed by EDR is provided in their report, which is included as ***Appendix A***.

The only environmental database searched by EDR that included the Subject Property is the New York State Spills database. The property, which was identified as the "*Farrind Control Area*" (sic) located at 115 to 117 Wall Street, was assigned NYSDEC Spill No. 08-08168 on October 21, 2008, due to the reported presence of six (6) 55-gallon drums containing used speedy dry, adsorbent pads and booms. A NYSDEC representative inspected the drums and stated that the drums were "***stable and not leaking***." The spill incident was closed by the NYSDEC on April 20, 2009. No information was provided by the NYSDEC pursuant to the FOIL request submitted by Apex to further research the reported spill incident.

The adjacent Farrand Controls Site is included on several environmental databases including Resource Conservation and Recovery Act (RCRA) non-generator (RCRA NONGEN); PCB Activity Database System (PADS); State Hazardous Waste Sites (SHWS); Facility Index System / Facility Registry System (FINDS); database for tracking hazardous waste from the generator through transporters to a TSD facility (MANIFEST); RCRA conditionally exempt small quantity generators (RCRA-CESQG) and sites which have the potential for exposures related to soil vapor intrusion (VAPOR REOPENED). A full summary of the aforementioned database citations for the adjacent Farrand Controls Site is included in ***Appendix A***.

According to the EDR database search, the only site of environmental concern located upgradient (i.e., north-northwest) of the Subject Property is the Fedor Residence which is located a 33 Commerce Street in Hawthorne, New York. During evaluation of a No. 2 fuel oil UST, holes were found in the tank which resulted in the contractor notifying the NYSDEC and Spill No. 03-05932 was assigned to the incident on September 4, 2003. Due to

structural concerns, the tank was abandoned in-place. A soil sample collected from downgradient of the tank did not contain detectable concentrations of contaminants. The NYSDEC closed out the spill incident on May 18, 2004.

The majority of the remaining sites are NYSDEC spill incidents associated with residences located hydrogeologically downgradient (southeast) of the Subject Property.

2.1.6 Town and County FOI and Publically-available Data Review

As discussed in ***Section 1.4***, there were conflicting reports as to whether the Subject Property was ever equipped with an on-site sanitary waste disposal system or was hooked into the municipal publically-owned treat works (POTW) since its construction. In order to evaluate this issue, Apex submitted FOIL applications to the Town of Mount Pleasant and the Westchester County Department of Health (WCDH) requesting any available plans, permits of other on-file information (see ***Appendix B***).

2.1.6.1 Town of Mount Pleasant

There were only limited records available at the Town of Mount Pleasant for review. Pertinent information with respect to the presence or absence of an on-site sanitary waste disposal system included:

- Undated drawing showing the on-site building (without its eastern addition) labeled as "*Opticals*," which presumably reflects the conditions of the Subject Property during its occupancy by Farrand Controls circa the 1960's though 1990. This drawing provides details with respect to the facility stormwater abatement system which included a 24-inch-diamenter corrugated metal pipe (CMP) draining off to the south of the Subject Property. While no details of the facility sanitary waste disposal system are shown, the plans do not show the presence of septic tank(s), cesspool(s) or tile drain field(s).

- 1985 and 1988 drawings of the facility show the presence of an east-west-trending, six-inch-diameter sanitary sewer line with the first sanitary manhole located along the southern exterior of the on-site building, thence a second sanitary manhole to the east, followed by the sanitary waste line running off the Subject Property towards the adjacent Farrand Controls Site Property. The two (2) plans do not show the presence of septic tank(s), cesspool(s) or tile drain field(s).

- According to a recent facility American Land Title Association (ALTA) survey, there is a 20-foot-wide easement associated with this sewer line. Further, it is believed that the buried sewer line was likely installed during the original construction of the on-site building due to its location along the front of the building and underlying an existing walkway (a sewer line installed at a later date would likely have been installed further away from the front of the building).

2.1.6.2 Westchester County Department of Health

Apex submitted a FOIL Request for Approved Septic Systems and Well Records for the Subject Property for both its current and former tax lot numbers. According to several telephone discussions, the WCDH does not have any records of file with respect to the Subject Property.

2.1.6.3 Westchester County Department of Environmental Facilities

According to their website, the Westchester County Department of Environmental Facilities (WCDEF) "*owns, operates and maintains 7 wastewater treatment facilities, 40 pump options, over 200 miles of trunk sewer lines conveying sewage to treatment facilities, 13 sanitary sewer districts.*" The Subject Property is located within the Westchester County Upper Bronx Sewer District and it is served by the Westchester County Yonkers Joint Wastewater Treatment facility. WCDEF personnel contacted as part of this evaluation were not able to provide the date of installation of the truck sewer lines in the vicinity of the Subject Property.

2.1.7 Interviews

On February 3, 2010, Apex personal conducted interviews of several, available on-site tenants. Each interviewee was questioned regarding on-site chemical use and any current or historic knowledge of potential environmental impairment issues. The following provides a summary of these interviews:

- **Mr. David Burgess** – General Manager of Spellman High Voltage Electronics Corporation (Spellman). Spellman conducts electronic component assembly and testing activities, mostly on the second floor of the on-site building. Chemicals utilized on-site include isopropyl alcohol (IPA), lead-containing solder, encapsulants and epoxies. Waste epoxy materials are allowed to cure and are disposed off-site as municipal waste. Other chemical wastes are stored in appropriate containment areas on the ground floor and are periodically picked up and disposed off-site by the firm American Way. According to Mr. Burgess, Spellman took over occupancy of their tenant space circa 2004 from Dell Power Conversion (Dell Global Technologies - Dell) which conducted similar operations on the Subject Property. Spellman is reportedly a RCRA conditionally-exempt small quality generator (CESQG).

- **Mr. Clayton Liehr** – Keating Electric & Technologies (Keating) – Keating sub-leases a portion of the first floor from Spellman. They are electrical contractors and utilize their space for administrative and storage purposes. Keating, which has occupied the space since August of 2007, does not utilize, store or dispose of any hazardous chemicals or waste. Mr. Liehr believed that his tenant space was formerly occupied by Dell.

- **Mr. Stephen Burns** – Service Manager of Select Telecom Inc. (Select). Select sells, installs and services telephone systems and utilizes first floor warehouse space for storage and office spaces for administrative uses. Select, which has occupied first floor spaces since circa 2005, does not utilize, store or dispose of any hazardous chemicals or waste.

- **NE Remsco** – No representative of this construction company were available for interview. NE Remsco reportedly utilizes their first floor tenant space for administration purposes only.

- **Robert Pollack Architect** - No representative of this architectural consulting firm was available for interview. This tenant space is reportedly only utilized for administrative – office purposes.

- **Mr. Mike Wolfert** – The Cliffs – This first floor tenant space is utilized as a gym / rock climbing wall. Muriatic acid is utilized to clean the rock climbing wall infrastructure. Spent muriatic acid is diluted and disposed of via the municipal sewer system. Typical cleaners are utilized in this tenant space to disinfect rental shoes. The Cliffs has occupied this first floor tenant space since September 2005, the prior tenant was Brunswick and Fils (a furniture warehouse), and prior to that the space was occupied by Dell Technologies. Various commercial cleaners and disinfectants' are also utilized in this tenant space.

- **Mr. Robert Ruhle** – Ruhle Contract Services (Ruhle) – Ruhle conducts contract manufacturing services in this basement floor tenant space, specifically associated with the manufacturing of wiring harnesses. The two waste streams associated with Ruhle include electrical wire and solder (which may contain lead). Ruhle has occupied its tenant space since 2005.

Based upon the information currently available, there is no current use, handling or disposal of chlorinated VOCs on the Subject Property.

3.0 STUDY AREA INVESTIGATIONS

This section of the SC / PRI Report provides a summary of the field activities conducted at the Subject Property including:

- Preliminary Site Inspection;
- Geophysical survey and site-specific utility mark out;
- Passive soil vapor sample collection and analyses;
- Direct-push soil and groundwater sampling and analyses; and,
- Permanent groundwater monitoring well installation and groundwater investigation.

A discussion of the nature and extent of contamination is provided in ***Section 4.0*** of this report.

3.1 Preliminary Site Inspection

A preliminary site inspection was conducted by NYSDEC (K. Mauriano and D. Crosby), Apex (D. Smith) and facility (M. Chillo) personnel on December 17, 2009. The purpose of this initial site inspection was to evaluate the planned sampling locations and evaluate alternative locations based upon site conditions and constraints. The following provides a summary of the salient points discussed during the inspection:

- Due to the presence of nearby bedrock outcrops, it was anticipated that originally proposed passive soil vapor locations SV-7, SV-8 and SV-11 may require re-positioning;
- Due to low overhead conditions in the building-interior sump location, it was not believed that a Geoprobe drill rig could access the SB/GW-5 proposed sampling location. The two alternatives included: 1) conducting a hand boring within the sump itself to collect a soil sample; or, 2) to move the location of SB/GW-5 due south to just outside the building envelope to allow the use of a Geoprobe to collect the soil and groundwater samples. For reasons discussed in ***Section 3.2.2*** below, Alternative 2 was selected for implementation;
- The proposed location of Piezometer P-2 was located near bedrock outcroppings and required relocation; and,
- Several "drum rings" were observed on the concrete pad near the eastern truck loading area / debris staging area. The NYSDEC indentified the area of the drum rings as an additional AOC.

3.2 Geophysical Survey / Sub-Grade Utility Mark Out

On January 19 and 20, 2010, Apex personnel oversaw the completion of a geophysical survey conducted by Consumer Markout (Consumer). Consumer utilized a variety of geophysical techniques including magnetometry, electromagnetic conductance, ground-penetrating radar (GPR) and / or cable avoidance tools in order to evaluate for the presence of an out-of-service sanitary-waste disposal system(s) and to mark out sub-grade utilities in anticipation of soil boring and monitoring well installation activities.

3.2.1 Sanitary Waste Disposal System Evaluation

As part of the geophysical survey, the locations of each sanitary vent / structure and sewer man-hole were evaluated. All of the observed sewer infrastructure was confirmed to be attached to the west-east-trending, six-inch-diameter sewer line, discussed in ***Section 2.1.5***, which runs off of the Subject Property to the east. No out-of-service septic tanks, cesspools or tile drain fields, or any anomalies potentially representing such structures, were indentified during the geophysical survey.

The following provides a summary of the information discussed above with respect to historic sanitary waste disposal practices on the Subject Property:

- The Subject Property is located within the Westchester Upper Bronx Sewer District; therefore, municipal sewer service is available;
- Neither the Town of Mt. Pleasant or the WCDH have any records on-file indicating the presence of a former on-site sanitary waste disposal system(s);
- The earliest available site drawings (7/15/85) show an east-west-trending, six-inch-diameter sewer line running off to the east in its current configuration. Its location along the front of the on-site building leads to the supposition that the building was constructed after the installation of the sewer main; and,
- No out-of-service sub-grade infrastructures, or suspect geophysical anomalies, were identified during the geophysical survey.

Based upon the available information, it appears that the Subject Property has been attached to the municipal sewer system since its construction and no components of an on-site, out-of-service sanitary waste disposal system(s) were observed.

As a further line of evidence, the August 2000 NYSDEC RI Report prepared for the adjacent Farrand Controls Site provided the following information: "*The site has been served by a municipal public water and sanitary sewer system since 1958, when the facility was constructed. The surrounding residential and commercial/industrial area is also served by public water and municipal sanitary sewers.*" As such, it appears that earlier document

discussed in ***Section 1.4.3***, above, which referenced an on-site sanitary waste disposal system, was in error.

3.2.2 Sub-grade Utilities Mark Out

Consumer identified several sub-grade utilities including telephone, fiber optic, electrical, natural gas, stormwater and sewer. The purpose of conducting the mark-out was to protect the sub-grade utilities from being damaged during the conduct of the soil boring and monitoring well installation programs. It should be noted that several sub-grade utilities were identified transecting the area of the building interior groundwater sump. Therefore, as discussed in ***Section 3.4.1*** below, the proposed SB/GW-5 soil boring location was moved from the building interior to the south at the immediately adjacent building exterior.

3.3 Passive Soil Vapor Sampling and Analyses

As discussed in the NYSDEC-approved SC / PRI Work Plan, the collection and analyses of soil vapor samples from below the on-site building slab and associated building-exterior locations was conducted in order to evaluate for the absence or presence of undocumented areas of potential concern which may have contained solvents in the form of halogenated VOCs or petroleum-related products. The passive soil vapor sampling technique is considered a high-quality, field-screening technique and was conducted for the purposes of evaluating for the absence or presence of VOC-impacted areas that may warrant further investigation and delineation (e.g., soil borings, hand-auger samples, subsequent wells, etc.) and to optimize soil boring and /or monitoring well locations. The soil vapor survey was *not* designed to quantify mass or concentrations of contaminants.

As discussed in the project Quality Assurance Project Plan (QAPP), the passive soil sampling protocols were not designed to address the issue of soil vapor intrusion. Therefore, these data were not analyzed in strict accordance with NYSDEC Analytical Services Protocols (ASP) or NYSDQH Guidance for evaluating Soil Vapor Intrusion in New York State.

3.3.1 Soil Vapor Probe Installation and Sampling

As indicated in ***Table 3-1*** and ***Figure 3-1***, on January 19 and 20, 2010, Apex personnel installed six (6) building-interior passive soil vapor probes (i.e., SV-1 through SV-6) and ten (10) building-exterior passive soil vapor probes (i.e., SV-7 through SV-16). At each location, a carbon adsorption module was installed in a small-diameter hand-advanced boring to a nominal depth of 36 inches, the holes were sealed, and the modules retrieved several days later and submitted to the laboratory for analyses. Several of the building-exterior sampling points (i.e., SV-7, SV-8, SV-9, SV-10, SV-11 and SV-16) were moved closer to the building envelop due to the presence of bedrock outcrops. Building-interior points SV-1, SV-2, SV-3,

SV-4 and SV-6 were moved slightly due to tenant constraints. SV-5 was relocated to a building-interior location to avoid sub-grade utilities in the vicinity of the interior groundwater sump. Building-exterior points SV-12, SV-13, SV-14 and SV-15 were specifically installed through the asphalt-paved parking lot as its impermeable nature was believed to best mimic the impermeable nature of the on-site building slab.

The passive soil vapor probes were installed in accordance with the protocols included in ***Appendix C***. The following provides a summary of the physical properties observed in the boreholes (see ***Table 3-1***):

- The concrete floor slab was between six and eight inches thick in the SV-1 through SV-5 sampling locations. The concrete floor slab was 18 inches thick at the SV-6 location;
- With the exception of the SV-5 and SV-16 locations where Apex observed a gravelly-sand and silt, respectively, the soils in all of the soil vapor sampling points to a maximum depth of 36 inches below grade surface (bgs) consisted of brown medium sand with minor amounts of silt;
- The soils were field screened for the presence of total VOCs with a calibrated photo-ionization detector (PID) equipped with a 10.6 electron volt (ev) detector. The PID did not detect the presence of VOCs in any of the soil vapor sampling locations in the interior of the on-site building (i.e., SV-1through SV-6) or at outdoor, bare ground locations (i.e., SV-7 through SV-11 and SV-16). PID readings ranging from 0.6 parts per million (ppm) to 2.4 ppm were detected in the four outdoor, asphalt-paved locations (i.e., SV-12 to SV-15); and,
- None of the soils exhibited suspect visual or olfactory characteristics.

3.3.2 Soil Vapor Analyses

The 16 soil vapor samples were analyzed for NYSDEC Target Compound List (TCL) VOCs plus Freon 113 (1,1,2-trichlorotrifluoroethane) by EPA Method 8260B (modified) by Beacon Environmental Services, Inc. (Beacon) (see Beacon data package included in ***Appendix C***).

3.4 Direct Push Soil and Groundwater Sampling and Analysis

As discussed in the NYSDEC-approved SC / PRI Work Plan, eight (8) on-site locations were selected for the collection of multi-depth soil and groundwater samples utilizing the Geoprobe direct-push sampling technique. Geoprobe sampling locations are indicated in ***Figure 3-2***.

3.4.1 Boring Installation and Sample Collection

On February 8 and 9, 2010, Apex personnel oversaw the conduct of the direct-push soil and groundwater sampling program by Land Air Water Environmental Services, Inc. (LAWES). In

accordance with the SC / PRI Work Plan, the following procedures were utilized to collect the soil and / or groundwater samples during this phase of work:

- A five-foot-long macro-core sampler lined with a factory-decontaminated, acetate sleeve and equipped with a center plug was driven to the top of the target sample depth; the center plug was removed and the sampler was advanced through the target sampling interval;
- The macro-core sampler was retrieved and cut open to expose the collected soils;
- To minimize the potential for volatilization, the on-site Apex hydrogeologist immediately collected the soil aliquot for VOC analysis into laboratory-supplied glassware;
- The samples were logged for lithologies and field screened for the absence or presence of VCCs with a PID;
- The remaining sample was placed into a decontaminated stainless steel bowl, homogenized and the composite sample transferred into laboratory-supplied glassware for the remaining analytes; and,
- Upon their collection, all of the soil samples were immediately placed on ice.

As indicated in the boring logs (see ***Appendix D***), groundwater was encountered in the borings at a depth of approximately 10-feet bgs. Therefore, subsequent to the collection of the unsaturated soil samples, the following techniques were utilized to collect multi-depth groundwater samples:

- A decontaminated sampler equipped with a decontaminated, four-foot-long, sheath-protected, stainless steel screen was inserted into the borehole, which was then advanced to the depth of the selected boring, or until refusal was encountered. The maximum target depth of sampling was 51 feet bgs or to refusal, whichever was encountered first;
- The protective sheath was withdrawn upward four (4) feet to expose the screened interval;
- A length of factory-decontaminated polyethylene tubing equipped with a check valve was inserted into the exposed screened interval and vigorously oscillated, thereby driving water to the surface. Approximately one-to-two-gallons of groundwater were purged, then a sample was collected directly into appropriate laboratory-supplied glassware for analysis;
- Once the deeper sample was collected, the screened interval was withdrawn to the next shallower sampling interval, a new length of factory-decontaminated polyethylene tubing inserted and oscillated allowing for the collection of a groundwater samples; and,

- The screen was withdrawn to the final sampling depth and the aforementioned procedure repeated to collect the shallow groundwater sample.

As summarized in ***Table 3-2*** and ***Figure 3-2***, the targeted soil and groundwater samples were collected from locations GW/SB-1 through SB/GW-4. Due to sub-grade utility constraints, SB/GW-5 was relocated from its original location within the interior of the building at the groundwater sump to an area due south outside of the building footprint immediately adjacent to the originally planned location. Refusal, on what was believed to be bedrock, was encountered at approximately 22-feet bgs; therefore, a deep (e.g., 51 feet bgs) groundwater sample could not be collected. In the SB -6, SB -7 and SB -8 locations, refusal, on what was assumed to be bedrock,[2] was encountered at depths ranging from 6.0 to 7.5-feet bgs. As groundwater was not encountered in any of these three (3) borings in the unconsolidated materials, one (1) shallow soil sample (e.g., approximately 0.0 to 4.0 feet bgs) and one (1) deep soil sample (e.g., approximately 5.0 to 7.0 feet bgs) were collected for analyses from the SB-6, SB-7 and SB-8 borings.

Based upon the review of the soil vapor sample and soil sample data, three (3) supplemental shallow soil areas (i.e., from the surface to one-foot bgs) were sampled utilizing a decontaminated hand auger. Three (3) locations at each area were sampled (total of nine (9) samples). The samples were analyzed for TCL VOCs plus 10 TICs and Freon 113 from the following locations (see ***Figure 3-2***):

- Concrete pad where suspect drum rings were observed and the northeastern dumpster staging area (i.e., SS-1, SS-2 and SS-3);
- Northern in-service loading dock (i.e., SS-7, SS-8 and SS-9); and,
- Eastern in-service loading dock (i.e., SS-4, SS-5 and SS-6).

These supplemental soil sampling locations were selected in coordination with the NYSDEC.

3.4.2 Soil and Groundwater Sample Analyses

As summarized in ***Table 3-2***, the soil and groundwater samples collected utilizing the direct-push sampling technique were analyzed for one or more of the following analytes:

---

[2] *Several borings were attempted in the vicinity of the SB/GW-6 location and refusal was encountered in each; therefore, it is believed that bedrock was encountered versus a large boulder. To further support this supposition, there are bedrock outcroppings just to the north of each of the three (3) northern boring locations (i.e., SB-6, SB-7 and SB-8).*

- NYSDEC TCL VOCs, Freon 113, and ten (10) tentatively-identified compounds (TICs) by EPA Method 8260;
- TCL semi-volatile organic compounds (SVOCs) plus 20 TICs by EPA Method 8270;
- Target Analyte List (TAL) metals by the EPA 6010 / 7471 Series;
- TCL pesticides by EPA Method 8081; and / or,
- TCL polychlorinated biphenyls (PCBs) by EPA Method 8082.

3.5 Permanent Monitoring Well Groundwater Investigation

As discussed in the NYSDEC-approved SC / PRI Work Plan, three (3) on-site locations (i.e., MW-1, MW-2 and MW-3) were selected for the installation and sampling of multi-depth groundwater monitoring wells and two (2) locations (i.e., P-1 and P-2) for shallow piezometers utilizing the hollow-stem auger drilling technique (see ***Figure 3-3***).

3.5.1 Well Installation, Development and Sampling

On March 15 through 19, 2010, Apex personnel oversaw the conduct of the groundwater monitoring well installation program by LAWES. In accordance with the SC / PRI Work Plan, the following procedures were utilized to install the wells during this phase of work:

- At each location, the first five (5) feet of each boring were advanced utilizing hand tools to prevent damage to any sub-surface utility;[3]
- In the deepest boring per location, a decontaminated slip-spoon sampler was utilized to collect soil samples on a nominal five-foot basis to the terminal depth of each boring;
- Upon completion of soil sampling, the deepest well per location was installed through the augers;
- Upon completion of the deepest well in a cluster, the down-hole tools were decontaminated, the rig moved over approximately 10-feet, and then the augers were advanced to the target intermediate-depth, where a well was installed. The well completion details are included in the boring logs (see ***Appendix D***) and ***Table 3-3***;

---

[3] *Each boring location was also cleared for the presence of buried utilities utilizing appropriate geophysical techniques.*

- The rig was then moved another ten (10) feet and the shallow well of the cluster installed;
- All decontamination liquids and soil cuttings were placed into 55-gallon drums, which were staged at a central site location;
- The wells were developed on March 25, 2010, by a combination of over-pumping and surging (see ***Appendix E*** for well-purging records). Per project protocols and in accordance with NYSDEC approval, the well purge waters from the shallow wells and piezometers were discharged to the ground surface adjacent to the well head and the purge waters from the intermediate and deep wells were containerized in 55-gallon drums;
- The top-of-casing elevations (TOCs) for the wells were surveyed to a common elevation utilized by the NYSDEC on the adjacent Farrand Controls Site (see ***Table 3-3***);
- On April 22, 2010, all of the well heads were accessed. Several of the wells were under pressure (i.e., MW-1I, MW-1D, MW-2I, MW-2D, MW-3I and P-1). All of the well plugs were removed and wells allowed to equilibrate for 90 minutes;
- Utilizing a decontaminated interface probe (IP), the depth-to-liquid and depth-to-bottom were measured in each well. No light nonaqueous-phase liquids (LNAPL) or dense nonaqueous-phase liquids (DNAPLs) were present in any of the wells. Depth-to-water measurements were collected on the same day by D&B personnel (D&B is the consultant retained by the NYSDEC for the Farrand Controls Site) from several of the wells located on the adjacent Farrand Controls Site to allow for preparation of potentiometric surface maps encompassing both properties;
- A decontaminated electric submersible pump was utilized to purge groundwater from each well. In three (3) cases (i.e., MW-1S, MW-2I and MW-3I), the wells ran dry. In each case, the well was allowed to recharge at least three (3) times. The well purge water was handled as discussed above;
- The sample aliquot for TAL metals analyses were collected directly from the pump discharge; and,
- At the completion of purging, the pump was removed and factory-decontaminated bailers were utilized to collect groundwater samples directly into appropriate laboratory glassware.

3.5.2 Groundwater Sample Analyses

As summarized in ***Table 3-4***, the monitoring well / piezometer groundwater samples were analyzed for one (1) or more of the following analytes:

- NYSDEC TCL VOCs, Freon 113, and ten (10) TICs by EPA Method 8260;

- TCL SVOCs plus 20 TICs by EPA Method 8270;
- TAL metals by the EPA 6010 / 7471 Series. As three (3) of the groundwater samples (i.e., MW-1S, MW-2I and MW-2D) exhibited elevated turbidity values, a second sample aliquot was collected, run through a 0.45 micron filter at the laboratory and, as such, represent the dissolved TAL metals results for these wells;
- TCL pesticides by EPA Method 8081; and / or,
- TCL PCBs by EPA Method 8082.

3.6 Local / Site Sub-surface Geology and Hydrogeology

This section provides a discussion of the site-specific geologic and hydrogeologic based upon the results of the soil and groundwater sampling / analyses program.

3.6.1 Geology

During the conduct of the Geoprobe sampling, soil samples were collected on a nominal continuous basis from the surface to ten (10) feet bgs. Soil samples were not collected between this depth and the 51 feet bgs maximum target depth as part of the Geoprobe groundwater sampling program. During the installation of the monitoring wells, soil samples were collected on a nominal five-foot basis to a maximum of 55 feet bgs. Soil boring logs are provided in ***Appendix D***.

The following provides a summary of the typical soil lithologies observed in the upper ten (10) feet of the soil column:

- The upper four-to-five feet exhibited a combination of sand, silty sand and gravelly sand;
- In the southeast portion of the Subject Property (e.g., in the SB-1, SB-2 and SB-3 locations), silty clay was observed, the top of which varied from approximately 4.0 to 7.0 feet bgs;
- In the central portion of the Subject Property (e.g., the SB-4 and SB-5 locations), sand, gravelly sand and silty sand were observed to the maximum depths of the boreholes. Refusal, on what is believed to be bedrock, was encountered in the SB-5 location at a depth of approximately 22 feet bgs (this observation was made based upon rig behavior during the advancement of the boring to allow for the collection of groundwater samples); and,
- On the northern portion of the Subject Property (e.g., the SB-6, SB-7 and SB-8 locations), what was interpreted as bedrock was encountered at depths ranging from 6.0 to 7.5 feet bgs.

The PID did not detect the presence of total VOCs in the majority of the collected soil samples. The only PID responses, which ranged from 0.7 to 1.9 ppm, were detected in the 0.0 to 2.5-foot bgs soil samples collected from SB-2 and SB-6.

The following provides a summary of the typical soil lithologies observed in the deep well borings:

- In the northern portion of the Subject Property, the upper few feet of the lithologic column were dominated by silty sand;
- In the MW-1 location, sand and silty sand were observed from the surface to approximately 21-feet bgs, below which depth, sand was present to the terminal depth of the boring at 56-feet bgs. Bedrock was not encountered in the boring;
- The upper six-to-seven-feet of the lithologic column in the MW-2 location were dominated by silty sand and clayey sand to approximately 29-feet bgs. An organic-rich silt layer was observed from 29-to-46-feet bgs, which was underlain by sand to the terminal depth of the boring at 56-feet bgs, where refusal, on what was believed to be bedrock, occurred; and,
- In the MW-3 boring location, the lithologic column was dominated by silty sand with two distinct silt layers observed at between approximately 13.5-to-18-feet bgs and 23.5-to-31-feet bgs. Drilling refusal, on what was believed to be bedrock, was encountered at approximately 51-feet bgs.

Based upon the data collected at the Subject Property, the sediments underlying the northern portion of the Subject Property are dominated by sand and silty sand. Inter-bedded, non-contiguous silt layers are present in the southern portion of the property. Bedrock is encountered at shallow depths along the northern portion of the Subject Property and occurs at deeper depths to the south. There is a topographic depression in the bedrock surface in the vicinity of MW-1 as unconsolidated sediments were encountered to the terminal depth of the boring of 56-feet bgs.[4]

The distribution and geometry of unconsolidated sediments / bedrock are consistent with an east-west-trending steep-sided valley, likely formed by glaciers,[5] which, subsequent to the retreat of the glaciers, was filled with fluvial and / or lacustrine sediments (e.g., rivers and

---

[4] There are not sufficient data available to define the geometry of this depression. D&B references the presence of a north-south trending bedrock swale along the western property line of the adjacent Farrand Control Site.

[5] Features such as polishing, chatter marks and striations were observed in bedrock outcrops supporting that the valley was formed by glaciations.

lakes). The presence of inter-bedded sand and silt in the southern portion of the property supports the presence of fluvial deposits from east-west-trending streams or lake deposits which lapped up to the valley sides, where higher-energy deposits (i.e., sand) were more prevalent, likely due to the steep topographic gradients present along the valley walls. Geologic sections are provided in ***Figures 3-4a*** and ***3-4b***.

D&B reported very similar geologic conditions in the RI Report prepared for the adjacent Farrand Controls Site, with sand present along the northern portion of the property and inter-bedded silt and clay to the south.

3.6.2 Hydrogeology

As discussed above, Apex conducted a synoptic round of water level measurements of the 11 newly-installed wells / piezometers on the Subject Property on April 22, 2010. On the same day, a representative from D&B also collected depth-to-water measurements from selected wells on the adjacent Farrand Controls Site. These two (2) data sets were utilized by Apex to prepare potentiometric surface maps of the shallow (e.g., 10-to15-feet bgs), intermediate (e.g., 30-to-35-feet bgs) and deep (e.g., 50-to-55-feet bgs) zones of the unconsolidated sediments underlying both properties.

Shallow Zone

As shown in ***Figure 3-5***, the potentiometric surface in the shallow zone, which is dominated by relatively homogeneous sand and silty sand, exhibited a southeast flow direction in the western portion of the Subject Property; a south flow direction in the eastern portion of the Subject Property and the western portion of the adjacent Farrand Controls Site; and a southwest flow direction in the southern portion of the adjacent Farrand Controls Site. This is generally consistent with a down-valley flow direction.

As summarized in ***Table 3-3,*** there was a strong upward gradient (i.e., 3.66 feet) between the shallow and intermediate zones in the MW-1 cluster. There was 0.59-foot upward gradient between the shallow and intermediate zones exhibited in the MW-2 cluster and a 2.31-foot upward gradient between the shallow and intermediate zones in the MW-3 well cluster.

Intermediate Zone

As shown in ***Figure 3-6***, the depth-to-water data indicate the presence of a groundwater flow divide along the property line separating the Subject Property and the adjacent Farrand Controls Site. On the Subject Property, the groundwater flow direction appears to be to the west-southwest, while the groundwater flow direction in the intermediate zone on the Farrand Controls Site is to the southeast. This is not consistent with the groundwater flow direction in the shallow and deep zones on the Subject Property. Due to the limited number of

groundwater gauging events, the intermediate zone flow direction data should be interpreted cautiously.

As summarized in ***Table 3-3***, there was a minor upward potentiometric flow component between the shallow and deep zones in the MW-1 and MW-2 well clusters (i.e., 0.13 feet and 0.07 feet, respectively). However, there was a 1.60-foot downward gradient between the intermediate and deep zones in the MW-3 cluster. This is likely due to the two (2) distinct clay layers observed within the deep MW-3 boring.

Deep Zone

As shown in ***Figure 3-7***, the groundwater flow direction in the deep zone, which is dominated by relatively homogeneous sand, was to the east - southeast in the vicinity of the Subject Property and to the south - southeast in the vicinity of the adjacent Farrand Controls Site. This is generally consistent with a down-valley flow direction of the more homogenous sands of the deep zone.

4.0 NATURE AND EXTENT OF CONTAMINATION

The following provides a summary and discussion of the nature and extent of contamination in the three (3) evaluated matrices including passive soil vapors, soil and groundwater.

4.1 Soil Vapor

As discussed in the NYSDEC-approved SC / PRI Work Plan, the passive soil vapor samples were collected and analyzed in order to evaluate the Subject Property for unidentified sources of VOCs in the unsaturated soils (see ***Figure 3-1*** for the sampling locations). As these data were collected for use as a screening tool only and the contaminant data are report on a mass basis, there are no applicable NYSDEC contaminant action thresholds for this data set. However, relative comparisons between suspect locations and background data provides a strong basis for site-wide screening for areas of potential VOC concern (if any).

As summarized in ***Table 4-1***, several VOCs were detected above laboratory Reported Detection Limits (RDLs) in the 16 passive soil vapor samples including:

- **Chloromethane** was detected in ail 16 of the passive soil vapor samples ranging in mass from 90 nanograms (ng) (i.e., SV-10) to 5,356 ng in SV-14 (see ***Figure 4-1***). It should be noted that, as discussed below, chloromethane was not detected above laboratory Reported Detection Limits (RDLs) in any of the soil and groundwater samples collected from the Subject Property. According to the Beacon chemist, Mr. Steven Thornley, chloromethane is typically present in nearly all passive soil vapor samples results he reviews. Mr. Thornley stated that the typical source for chloromethane is the interaction of salt / sunlight and biomass, all of which could be expected in the vicinity of the Subject Property.

  According to the Agency for Toxic Substances and Disease Registry (ATSDR) (see ***Appendix F***), up to 90 percent of the chloromethane in the environment is naturally occurring associated with chemical reactions associated with burning grass, wood, charcoal and coal. Chloromethane was once utilized as a refrigerant known as R-40, although its use was halted circa 30 years ago. Currently, anthropogenic chloromethane is associated mostly with the manufacturing of butyl and silicone rubbers and pure vinyl chloride. As no suspect activities have been conducted on the Subject Property, and chloromethane was detected in both indoor and outdoor sampling points, it is believed that the detected chloromethane was from naturally-occurring sources. The highest masses of chloromethane were detected in the SV-14 and S-15 sampling locations, which are the two (2) sampling locations located nearest to the adjacent wetlands, as well as the adjacent roadway (where salts is likely applied for de-icing purposes). Further, organic-rich silts were encountered in the sub-surface near both sampling locations. As the lowest masses of chloromethane were detected underlying the on-site building, and the highest masses were detected in the sampling locations nearest the

adjacent wetlands and roadway, which are underlain by organic-rich silt, it is believed that the source(s) of chloromethane are naturally-occurring and there is not an anthropogenic source of chloromethane which requires further evaluation on the Subject Property.

- **Acetone**, which is a very common laboratory contaminant, was detected in several of the building-interior and building-exterior locations (see ***Figure 4-2***). The highest mass of 2,535 ng was detected in the SV-6 sample which was collected from the below the floor slab in the gym / rock climbing wall tenant space. This facility utilizes disinfecting agents which, through de-halogenation, can break down to acetone, then to alcohols. The Beacon chemist reviewed the sample chromatogram and observed a large mass of ethanol (not a NYSDEC TCL VOC; therefore, it was not reported). Based upon the on-site chemical use and breakdown of such products, it is not believed that the presence of acetone in the passive soil vapor samples represents an environmental impact to underlying soil or groundwater.

- **Freon 113** was only detected in the SV-16 sample at 79 ng, which was the eastern-most sampling point on the Subject Property and was the closest soil vapor sampling point to the adjacent Farrand Control Site. As Freon 113 was a contaminant of concern at the adjacent Farrand Controls Site, its detection in the SV-16 sample, and the lack of Freon 113 in the other on-site soil vapor, soil and monitoring well groundwater samples indicates that the presence of this contaminant is attributable to the contamination of the Farrand Controls Site.

- **Carbon Disulfide** was detected in the four (4) soil vapor samples collected from the building-exterior, paved parking lot locations (i.e., SV-12, SV-13, SV-14 and SV-15) and one (1) building-interior point (SV-4). Based upon their locations, it is believed that the source of the carbon disulfide is the asphalt paving, or the organic matter present in the adjacent wetlands;

- **Halogenated VOCs**, including 1,1-dicholoroethene (1,1-DCE), trans-1,2-dicholroethene (trans-1,2-DCE), 1,1,1-tricholroethane (TCA) and / or trichloroethene (TCE) were all detected in the building-interior sampling points (see ***Figure 4-3***). The highest total mass of halogenated VOCs (276 ng) was detected in the SV-5 sampling location, which was located near the groundwater sump, a suspected drum storage area and the facility's in-service loading dock. 76 ng of halogenated VOCs were detected in the SV-16 location which was adjacent to the concrete pad where drum rings were observed.

- **Miscellaneous VOCs** were sporadically detected in several of the soil vapor samples including 1,211 ng of styrene in the SV-6 sample, 26 ng of xylenes in the SV-12 sample, 28 ng of benzene in the SV-14 sample, 2-butanone (methyl ethyl ketone [MEK]), a common laboratory contaminant in three (3) samples, and methylene chloride (another typical laboratory contaminant) in several samples.

Base upon the passive soil vapor data set, Apex concludes as follows:

- The area in the vicinity of SV-5 warranted additional investigation due to the presence of the low level halogenated VOCs detected. Portions of the subsequent soil-sampling program were implemented to address this area is discussed later in the report (i.e., SB-6, SB-7, and SS-7 through SS-9).

- Soil vapors from the area in the vicinity of SV-16 are impacted by Freon 113 likely from a source(s) located on the adjacent Farrand Controls Site.

4.2 Soil

As discussed in the NYSDEC-approved SC / PRI Work Plan, all of the Geoprobe soil samples collected were analyzed for NYSDEC TCL VOCs plus ten (10) TICs and Freon 113. Seven (7) soil samples were also analyzed for TCL SVOCs plus 20 TICs, TCL pesticides, TCL PCBs and TAL metals (see ***Table 3-2***). An additional nine (9) surficial soil samples were collected and analyzed for TCL VOCs plus Freon 113 and ten (10) TICs.

The soil analytical data are compared to the NYSDEC soil cleanup objectives (SCOs) (i.e., Unrestricted SCOs and commercial / industrial SCOs) and NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives (RSCOs). As the Subject Property is improved with commercial infrastructure, and the Subject Property is zoned by the Town of Mount Pleasant as M1 – Planned Light Industry, the restricted commercial-use SCOs are the appropriate and applicable NYSDEC threshold.

TCL VOCs

As summarized in ***Tables 4-2 and 4-3***, Freon 113 was not detected above RDLs in any of the 25 soil samples collected as part of the SC / PRI. As such, this chemical, which is one (1) of the indicator chemicals of concern at the adjacent Farrand Controls Site, does not appear to present a concern for the Subject Property.

Acetone was detected in the shallow and deep soil samples collected from SB-2 and SB-3 and in the deep soil sample collected from SB-5. The highest concentration of 0.18 milligrams per kilogram (mg/kg) (in the SB-4 [0-4] sample) is slightly above the NYSDEC 0.05 mg/kg unrestricted-use SCO, but well under its NYSDEC RSCO and all other SCOs. As acetone is a typical laboratory contaminant and was detected at concentrations well below applicable NYSDEC guidance values, Apex submits that no further actions are warranted due to the presence of acetone.

Methyl ethyl ketone (MEK, a.k.a. 2-butanone) was detected in only one (1) soil sample (i.e., SB-3 [0-4]) at a concentration well below any of the NYSDEC thresholds of concern. MEK is a typical laboratory artifact and its detection in one (1) soil sample is not believed to represent an impact to the Subject Property.

Very low concentrations (e.g., typically orders of magnitude below any applicable NYSDEC SCO or RSCC) of TCE, cis-1,2-DCE, TCE,[6] TCA and PCE were sporadically detected in soil samples, mostly in the vicinity of the two (2) loading docks and the concrete pad (i.e., SB-6, SS-2, SS-7, SS-8 and SS-9). Given that all chlorinated VOC concentrations were well below their respective SCOs and RSCOs, there were no indications of any chlorinated VOC source area or concerns in soils warranting further action based upon the available data.

TCL SVOCs

As summarized in ***Table 4-4***, no TCL SVCCs were detected above laboratory RDLs in any of the seven (7) soil samples analyzed. Very low concentrations of TICs (ranging from 0.31 mg/kg to 1.8 mg/kg) in the form of unknown organic acids, or identified as an "unknown," were detected in five (5) of the seven (7) samples analyzed.

TCL Pesticides and PCBs

As summarized in ***Table 4-5***, no TCL pesticides or TCL PCBs were detected above laboratory RDLs in any of the seven (7) samples analyzed.

TAL Metals

As summarized in ***Table 4-6***, the only TAL metals detected in contravention of the most restrictive SCCs were chromium (SB-2, both samples and SB-6, shallow sample), copper (SB-4 shallow sample), lead (SB-8 shallow sample) and nickel (SB-2, both samples and SB-4 shallow sample). In all cases, the four (4) metals were detected at concentrations well below their respective restricted commercial-use SCCs.

* * *

Based upon the analytical data collected as part of the SC / PRI, TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs and TAL metals are not of concern in soils at the Subject Property. As such, none of the identified AOCs in ***Section 1.4.3*** and indicated on ***Figure 1-2,*** including the drum rings and the groundwater sump, warrant any additional investigation or remediation.

---

[6] *The only recorded use of TCE on the Subject Property was by DEL Global Technologies (a former tenant), which was on-site from 1991 through at least 2003 and generated one (1) 55-gallon drum of waste TCE approximately every ten (10) weeks.*

4.3 Groundwater

As discussed in the NYSDEC-approved SC / PRI Work Plan, the groundwater analytical data are evaluated in conjunction with NYSDEC Class GA Groundwater Standards and Guidance Values set forth in the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Reissued June 1998 and April 2000 Addendum.

All of the 25 groundwater samples collected as part of the SI / PRI were analyzed for TCL VOCs plus Freon 113 and ten (10) TICs. Selected groundwater samples collected from monitoring wells were also analyzed for TCL SVOCs, TCL pesticides, TCL PCBs and TAL metals (see ***Table 3-4***).

4.3.1 TCL VOCs

The 14 grab groundwater samples and the 11 groundwater samples collected from monitoring wells / piezometers were analyzed by Alpha for TCL VOCs plus Freon 113 and ten (10) TICs. Groundwater sample results are summarized in ***Tables 4-7*** and ***4-8*** respectively. The grab groundwater samples were collected and analyzed in order to optimize locations for the installation of the three (3) monitoring well clusters. Based upon previous site investigations, it has been Apex's experience that grab groundwater samples collected via the direct push technology often result in high-biased data. For this reason, the grab groundwater TCL VOC analytical results should be considered as high-quality field screening results only and are not necessarily representative of data that should be directly compared to Class GA Groundwater Quality Standards.

4.3.1.1 Grab Groundwater Samples

As summarized ***in Figures 4-4***, ***4-5*** and **4-6**, halogenated VOCs, primarily in the form of 1,1-dichloroethane (DCA), TCE, and cis-1,2-DCE, were detected in the grab groundwater samples from the boring locations located along the property line between the Subject Property and the adjacent Farrand Controls Site (i.e., GW-1, GW-2 and GW-3 in ***Figure 3-2***), with the highest concentrations in the shallow and intermediate-depth samples collected from GW-2 (952 ug/l total VOCs). Somewhat lower concentrations in the groundwater samples were evident at GW-3 (271 ug/l total VOCs), and much lower concentrations were present at GW-1 and GW-4 (14.5 ug/l and 33.3 ug/l total VOCs, respectively). The two (two) samples collected from GW-5 exhibited the lowest concentrations of TCL VOCs (non-detect and 0.52 ug/l total VOCs for the shallow and intermediate samples, respectively).

Freon 113 was only detected in one grab groundwater sample (deep GW-3 sample). Vinyl chloride was only detected in the shallow and intermediate depth samples collected from GW-2.

The TCL VOC data from GW-1, GW-2 and GW-3 were generally consistent with the D&B data set collected as part of the Farrand RI circa March of 1999. The highest concentrations of halogenated VOCs detected on-site were breakdown products of PCE or TCA such as vinyl chloride and cis-1,2-DCE. Relatively lower concentrations of TCE, a primary product, were detected.

4.3.1.2 Permanent Well Groundwater Samples

Based upon the TCL VOC grab groundwater analytical results, the three (3) permanent well clusters (i.e., MW-1, MW-2 and MW-3) were installed in the locations indicated in ***Figure 3-3***. The locations for the permanent well clusters were selected to provide the following site data:

- The MW-1 cluster was intended to reflect groundwater conditions in the upgradient portion of the Subject Property. The final well locations were moved south from their originally intended position due to bedrock being encountered at six-to-seven-feet bgs in the nearby SB-6 location;
- The data from the MW-2 well cluster were intended to provide groundwater quality data from downgradient of the majority of the AOCs on the Subject Property;
- The data from the MW-3 cluster were intended to evaluate groundwater quality downgradient of the SV-5 sampling point which exhibited the highest passive soil vapor concentration; and,
- P-1 and P-2 were located to provide measurement points for evaluating the geometry of the shallow potentiometric surface, as well as ambient groundwater quality conditions with respect to TCL VOCs.

As summarized in ***Table 4-8***:

- 9,600 micrograms per liter (ug/l) of TCE were detected in the MW-1S (shallow)[7] sample. Lower concentrations of TCA (290 ug/l), and cis-1,2-DCE (980 ug/l) were also detected, as were 200 ug/l of benzene;
- The concentrations of the halogenated VOCs generally attenuated in the MW-1I (intermediate) sample (i.e., 700 ug/l TCE; <20 ug/l TCA; and 46 ug/l benzene). 87 ug/l of vinyl chloride were detected in the MW-1I sample;

---

[7] *For the purposes of this report, the Shallow Zone shall mean 5-to-10-feet bgs, the Intermediate Zone shall mean 30-35-feet bgs, and the Deep Zone shall mean 50-to-55-feet bgs.*

- With the exception of 0.97 ug/l benzene, none of the VOCs present in the overlying groundwater samples were detected above RQLs in the MW-1D (deep) sample;
- No TCL VOCs were detected in the MW-2S groundwater sample, 9.5 ug/l of acetone (a common laboratory artifact) was the only TCL VOC detected in the MW-2I sample;
- TCE at 25 ug/l and cis-1,2-DCE at 5.4 ug/l were the only TCL VOCs detected in the MW-2D sample;
- Other than very low concentration of acetone, cis-1,2-DCE and / or TCE, no TCL VOCs were detected in the MW-3S and MW-3I groundwater samples;
- Chloroform at 8.2 ug/l and TCE at 10 ug/l were the only TCL VOCs detected in the MW-3D sample; and,
- No TCL VOCs were detected above RDLs in the P-1 and P-2 groundwater samples.

As discussed in ***Section 3.6.2***, previously, the groundwater flow direction is to the south to southeast in the vicinity of the Subject Property in the Shallow Zone and to the east to southeast in the Deep Zone. The observed groundwater flow direction in the Intermediate Zone appear inconsistent and must be interpreted cautiously due to the presence of silt and clay layers in the southern portions of both properties which results in heterogeneous hydrogeologic conditions in the intermediate depths.

The physical data indicated the presence of a strong upward potentiometric flow condition between the shallow and intermediate zones in the MW-1 and MW-3 locations and a lesser upward gradient between the two (2) zones in the MW-2 location. There is a slight upward gradient between the intermediate and deep zones in the MW-1 and MW-2 locations and a strong downward gradient between the two (2) zones in the MW-3 location.

Based upon the SI / PRI data and the data collected from the adjacent Farrand Controls Site by others, there are relatively homogeneous sands and silty sands present along the northern portion of the study area lapping up to form an unconsolidated sediment / bedrock interface which dips off steeply towards the south. Additionally, the unconsolidated sediments towards the south (away from the sediment / bedrock interface) are characterized by inter-bedded sand and silt. The silt layers are not contiguous and do not appear to extend across the entire site to the north (*see* ***Figures 3-4a*** and ***3-4b***).

The contaminant concentration profiles observed in the groundwater samples collected from the cluster wells are consistent with the vertical gradient data. In the MW-1 cluster, the highest concentrations of TCL VOCs were detected in the shallow sample, with the contaminant concentrations attenuating with depth.

The high concentrations of TCE, cis-1,2-DCE and TCA in the groundwater sample collected from MW-1S were not originally anticipated for the following reasons:

- This well cluster was meant to target upgradient groundwater conditions;
- The passive soil and soil analytical data do not support the presence of a significant source of halogenated VOCs in the unsaturated zone on the Subject Property. Both datasets only indicated the presence of low concentrations of halogenated VOCs (e.g., well below actionable concentrations);
- The grab groundwater analytical data, which typically result in high-biased data, do not support the presence of highly impacted soils or groundwater on the Subject Property; and,
- The soil analytical data also do not support the presence of such significant contaminant levels in the unsaturated zone.

In order to evaluate VOC groundwater-quality data information including both the Subject Property and the adjacent Farrand Controls Site, Apex prepared ***Figures 4-7, 4-8*** and ***4-9*** for the shallow, intermediate and deep zones, respectively. The data utilized included Apex's April 2010 monitoring well data and the 1999 well data from the Farrand Controls Site.[8] As indicated in the figures, there is a data gap with respect to shallow, intermediate and deep zones groundwater quality conditions between MW-1 well cluster on the Subject Property and most-impacted area on the Farrand Controls Site.

Based upon the data collected to date from both the Subject Property and the adjacent Farrand Controls Site, Apex concludes the following with respect to the observed groundwater contaminant data:

- High concentrations of halogenated VOCs were detected through the water column in the vicinity of the southern end of the on-site building on the adjacent Farrand Controls Site. Additionally, DNAPL was observed in the same vicinity. Therefore, high concentrations of dissolved-phase contaminants and a source area (the DNAPL in the P-5D location) are confirmed to be present on the adjacent Farrand Controls Site;
- There are data gaps with respect to hydrogeologic and contaminant conditions between the eastern portion of the Subject Property and the western half of the Farrand Controls Site;

---

[8] *It is acknowledged that the data sets are from two (2) different time frames; however, it is illustrative to discuss comparison of the two (2) data sets.*

- None of the soil vapor or soil analytical data collected from the Subject Property indicated the presence of soils impacted by VOCs;

- The localized or micro geologic / hydrogeologic conditions, including a steeply-dipping, varying depth, impermeable barrier (the bedrock with topographic highs, lows, swales, etc.); varying upward flow direction between the shallow and intermediate zones; and, the presence of multiple silt layers which vary and are discontinuous across both the Subject Property and the adjacent Farrand Controls Site may cause very "localized" flow / contaminant transport conditions. As such, the actual source area for the high VOC concentrations in groundwater at MW-1S (shallow) may not be located on the Subject Property; and,

- Given that there is documented deep contamination on the Farrand Controls Site and confirmed upward flow gradients at MW-1, it is believed that the Farrand Controls Site could be a possible source of impact at MW-1 on the Subject Property; however, additional data are needed to further evaluate this possibility.

4.3.2 TCL SVOCs

Pursuant to project protocols as approved by the NYSDEC, the groundwater samples collected from MW-1S, MW-1I, MW-2D, MW-2I and MW-2D were analyzed for TCL SVCCs. As summarized in ***Table 4-9***, no TCL SVCCs were detected in the aforementioned groundwater samples with the exception of naphthalene (which was detected at concentrations well below its NYSDEC Class GA guidance value). Based upon these data, Apex believes that TCL SVCCs are not of concern with respect to on-site groundwater.

4.3.3 TCL Pesticides and PCBs

The groundwater samples collected from MW-1S, MW-1I, MW-2D, MW-2I and MW-2D were analyzed for TCL pesticides and PCBs. As summarized in ***Table 4-10***, none of the target analytes were detected in any of the five (5) groundwater samples. Based upon these data, Apex submits that TCL pesticides and PCBs are not of concern with respect to on-site groundwater.

4.3.4 TAL Metals

The groundwater samples collected from MW-1S, MW-1I, MW-2D, MW-2I and MW-2D were analyzed for TAL metals. Due to elevated turbidity values, the samples collected from MW-1S, MW-2I and MW-2D, and their associated QA / QC samples, were also passed through a 0.45 micron filter at the laboratory to remove entrained silt and clay to evaluate if the elevated turbidity resulted in high-biased data.

As summarized in ***Table 4-11***, the only TAL metals which were detected at concentrations in exceedance of their respective NYSDEC Class GA standards or guidance values were iron,

manganese and sodium. Iron and manganese are both naturally occurring and are often detected at elevated concentrations not related to anthropogenic impacts. The elevated sodium concentrations are likely related to the use of salt for de-icing purposes on nearby road ways and the on-site parking lot.

As no TAL metals were detected in any of the groundwater samples associated with typical industrial activities (e.g., cadmium, chromium, mercury, lead, etc.) at concentrations of concern in any of the groundwater samples, Apex concludes that TAL metal are not of concern with respect to on-site groundwater.

5.0 DATA SUMMARY USABILITY REPORT

The purpose of this section of the report is to provide a DUSR analyses of the chemical analytical data collected as part of the SC / PRI.

5.1 Soil Vapor Samples

As discussed above and in the project QAPP, the passive soil vapor sampling program was designed and implemented to provide high-quality, field-screening level data only in support of the SC / PRI program. As such, typical QA / QC measures such as equipment rinsate blanks, blind duplicates, etc., were not required. As part of the NYSDEC Data Summary Usability Report (DUSR) requirements, the following QA/QC protocols were implemented:

- As indicated in ***Table 4-1***, no TCL VOCs or Freon 113 were detected above contract-requirement quantification limits (CRQLs) in the trip blank. These data indicate that that no VOC cross contamination occurred during sample shipment;
- TCL VOCs were not detected above CRQLs in the laboratory Method Blank, as such, none of the VOCs detected in the soil vapor samples were likely the results of laboratory cross contamination or artifacts;
- As indicated in the Beacon data package, all of the internal laboratory control standards (LCSs) were within acceptable ranges; and,
- Based upon the above, the passive soil vapor analytical results are valid and appropriate for use in the SC / PRI Report.

5.2 Soil and Temporary Well Groundwater Samples

The soil and groundwater samples, as well as the appropriate QA/QC samples, were analyzed by Alpha Analytical Labs (Alpha), a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. All of the samples were analyzed in accordance with NYSDEC ASP Category B laboratory data deliverable format.

As discussed in the project QAPP, and in accordance with NYSDEC DUSR requirements, the following QA/QC protocols were implemented:

- Trip blanks consisting of laboratory-provided VOC-free water within 40 ml vials were utilized on February 8 and 9, and April 23, 2010. As summarized in ***Table 5-1***, no TCL VOCs or Freon 113 were detected above laboratory reported detection limits (RDLs) in either trip blank. These data indicate that that no VOC cross contamination occurred during shipment of the soil and groundwater VOC-aliquot samples;

- One rinsate blank per sampling methodology (i.e., shallow soil sampling, deeper soil sampling and groundwater sampling) was collected as part of the field work. Laboratory-supplied, analyte-free water was run through either a factory-decontaminated acetate macro-core liner or decontaminated hand auger into laboratory-supplied glassware prior to its use. Analyte-free water was poured through the field-decontaminated, stainless steel groundwater sampling screen into laboratory-supplied glassware prior to its use. As indicated in ***Table 5-1***, no TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs and / or TAL metals were detected above their respective laboratory RDLs in any of the three sampling methodology rinsate blanks. These data indicate that the factory- and field-decontamination procedures were effective and have not affected the resultant quality of these data sets.

- One blind duplicate per sample matrix (i.e., shallow soil, deeper soil and groundwater) was collected as part of the field work in accordance with the project QAPP. The blind duplicate samples were collected from the sample aliquot of the original field samples, placed in laboratory-supplied glassware, assigned fictitious sample identifications and submitted to the laboratory for the same suite of analyses as the corresponding field sample.

  The field duplicate samples were utilized to assess the variability of a matrix at a specific sampling point and to assess the reproducibility and precision of the sampling method. The measure of this QA/QC protocol is known as Relative Percent Difference (RPD). The methodology for calculating the RPD is indicated in ***Table 5-2***. According to the QAPP, the RPD objective is +50% percent RPD.

  As indicted in Table **5**-2, a blind duplicate of shallow soil sample SS-6 was submitted to the analytical laboratory for TCL VOCs plus Freon 113. The majority of RPDs for the TCL VOCs were 0.0 percent with no RPDs above 50 percent. These RPD results indicate that TCL VOC analytical data are reproducible and precise for the purposes of the SC / PRI.

  As indicated in ***Table 5-2***, a blind duplicate sample of the shallow soil sample collected from SB-4 was submitted to the analytical laboratory for TCL VOCs plus Freon 113, TCL SVOCs, TCL pesticides, TCL PCBs and TAL metals. The RPDs for the TCL VOCs, TCL SVOCs (with the exception of very low concentrations of TICs), TCL pesticides and TCL PCBs ranged from 6.9 to 15.6 percent. These RPD results indicate that analytical data for these anthropogenic analytical suites are reproducible and precise for the purposes of the SC / PRI.

  The RPDs for the majority of the TAL Metals ranged from 8.0 to 37.5 percent, and therefore are considered reproducible and precise for the purposes of the SC / PRI. The RPDs for the following six (6) TAL metals exceeded the 50 percent RPD objective: barium (51.9 percent), beryllium (53.7 percent), manganese (85.7 percent), copper (101.4 percent), calcium (106.2 percent) and sodium (123.1 percent). These elevated RPDs are believed to represent matrix variability inherent to the soil matrix. Additionally, with the exception of copper, the maximum concentration of each of the other five (5) subject metals was at concentrations well below their respective NYSDEC thresholds

of concern. The highest concentration of copper of 52 milligrams per kilogram (mg/kg) was just slightly in contravention of the most conservative NYSDEC Soil Cleanup Objective (SCO) and, therefore, is not believed to be a significant exceedance. Based upon the RPDs, it is believed that the TAL metals data are slightly variable due to sample matrix issues; however, the data are of sufficient quality for the purposes of the SC / PRI.

A blind duplicate sample of the GW-5 shallow groundwater sample was collected and analyzed by the laboratory for TCL VOCs plus Freon 113 and 10 TICs. As summarized in ***Table 5-2***, with the exception of one TIC, no TCL VOCs or Freon 113 were detected at concentrations above their respective laboratory RDLs in either the field sample or the blind duplicate. As both samples exhibited the same RDLs, the resultant RDPs were 0.0 percent. As expected for the groundwater matrix, these data indicate high precision and reproducibility of the groundwater VOC data set.

The soil and groundwater samples were analyzed by Alpha utilizing NYSDEC ASP B protocols. As such, site-specific soil and groundwater samples were utilized for Matrix Spike / Matrix Spike Duplicate (MS / MSD) purposes. Electronic copies of the Alpha data packages are included in ***Appendix G***. Review of the individual Sample Data Groups (SDGs) QA / QC samples did not indicate any significant concern(s) that would invalidate the data.

5.3 Permanent Well / Piezometer Groundwater Samples

The groundwater samples collected from the permanent monitoring wells and piezometers, as well as the appropriate QA / QC samples, were analyzed by in accordance with NYSDEC ASP Category B laboratory data deliverable format.

As discussed in the project QAPP, the following QA/QC protocols were implemented:

- A trip blank consisting of laboratory-provided VOC-free water within 40 ml vials was utilized on April 23, 2010. As summarized in ***Table 5-1***, no TCL VOCs or Freon 113 were detected above laboratory RDLs in the trip blank. These data indicate that that no VOC cross contamination occurred during shipment of the groundwater VOC-aliquot samples;

- One rinsate blank was collected as part of this phase of field work. Laboratory-supplied, analyte-free water was run through a factory-decontaminated disposable bailer into laboratory-supplied glassware prior to its use. As indicated in ***Table 5-1***, no TCL VOCs, TCL SVOCs, TCL pesticides or TCL PCBs were detected above their respective laboratory RDLs in the rinsate blank. These data indicate that the factory- and field-decontamination procedures were effective and have not affected the resultant quality of these data sets. The sample aliquot for TAL metals analyses did contain barium, calcium, magnesium and sodium at concentrations above RDLs, but at concentrations well below those of the field samples. As none of these metals are believed to be present due to

anthropogenic sources, their presence in low concentrations in the rinsate blank is not believed to represent a significant data quality issue.

- One blind duplicate was collected as part of the field work in accordance with the project QAPP. The blind duplicate sample was collected from the sample aliquot of the original field sample, placed in laboratory-supplied glassware, assigned fictitious sample identifications and submitted to the laboratory for the same suite of analyses as the corresponding field sample.

  As indicted in ***Table 5-2***, a blind duplicate of the deep-depth groundwater sample from MW-2 was submitted to the analytical laboratory for TCL VCCs plus Freon 113, TCL SVOCs, TCL pesticides, TCL PCBs and TAL metals. The RPDs for all of the TCL VOC, TCL SCOCs and TCL pesticides were very low and indicated highly reproducible and precise data for these analytes.

  Aroclor 1248 was not detected in the MW-2D field sample but was detected above RDLs in the blind duplicate groundwater sample. As PCBs were not detected above RDLs in any of the site soil or groundwater samples, the presence of Aroclor 1248 in the blind duplicate is believed to represent an anomalous laboratory excursion and does not significantly affect the groundwater PCB data set.

  The TAL metals RPDs for the dissolved sample aliquots were very low including precise and reproducible data. A few of the total TAL metals including aluminum, iron, lead and vanadium exhibited RPDs above 50 percent. As none of these metals were present in any of the soil and groundwater samples approaching levels of concern, these elevated RPDs are not believed to represent a significant data quality issue.

  A trip blank was received in the laboratory but not listed on the chain of custody. The trip blank was not analyzed as it's temperature was allowed to rise to room temperature at the lab.

  A field blank was received in the laboratory but not listed on the chain of custody. The Field Blank was analyzed. The field blank was received above the appropriate pH for the TAL metals analysis, HNO_3 was added to lower the pH to less than 2.

The groundwater samples collected from on-site wells and piezometers were analyzed by Alpha utilizing NYSDEC ASP B protocols. As such, site-specific soil and groundwater samples were utilized for Matrix Spike / Matrix Spike Duplicate (MS / MSD) purposes. Electronic copies of the Alpha data packages are included in ***Appendix G***. Review of the individual SDGs QA / QC samples did not indicate any significant concern(s) that would invalidate the data.

6.0 SUMMARY AND CONCLUSIONS

The purpose of this section is to provide a summary of the known history and conditions at the Subject Property.

6.1 Site History and Background

Based upon the available information, the Subject Property was developed with the majority of the on-site infrastructure circa the late 1960s to early 1970s. Infrastructure associated with the adjacent Farrand Control Site was constructed between 1954 and 1964. Farrand Controls (and / or its subsidiaries) utilized the on-site building for industrial-manufacturing and office use through circa 1990. One former tenant reportedly utilized TCE in on-site operations. Based upon Interviews conducted as part of the SC / PRI field work, the chemical handling / storage practices of current on-site tenants do not pose a significant risk to the environment.

Based upon the information evaluated as part of this report, it appears that the Subject Property was attached to the municipal sewer system since its construction.

The following on-site AOCs were identified and evaluated as part of the SC / PRI:

- A concrete pad which exhibited staining patterns indicative of former drum storage practices;
- Two (2) in-service loading docks;
- An interior groundwater sump;
- An empty drum staging area; and,
- A potential drum storage area.

6.2 Geologic and Hydrogeologic Conditions

There are two (2) aquifer types underlying the Valhalla area, including Valley-Fill and fractured bedrock aquifers.

As the Subject Property is located on the periphery of a valley, and there are adjacent wetlands, the depth to water is expected to be relatively shallow in the valley fill aquifer. The local groundwater flow direction is likely to be to the south-southwest, towards the adjacent wetlands and at least partially in the down-valley direction.

Regionally, groundwater occurs in both valley-fill aquifers and bedrock aquifers. Groundwater flow direction in valley-fill aquifers is typically in the down-valley direction.

Bedrock aquifers typically consist of water-bearing fracture zones. The actual groundwater flow direction in bedrock aquifers is usually driven by potentiometric conditions and the orientation of the fractures. As such, it is often necessary to install piezometers / wells into bedrock aquifers to confirm flow directions.

The following is a summary of the key geologic and hydrogeologic features relevant to the Site Characterization:

- There is an impermeable bedrock surface steeply dipping towards the southwest;
- Relatively homogenous sands are present in the MW-1 well cluster location (north side of site), which was installed nearest to the bedrock / unconsolidated sediment interface;
- Discontinuous silt / clay layers were observed beneath the southern portion of the Subject Property;
- The site-wide groundwater flow direction in the shallow and deep zones are to the south and southeast, and east south-east, respectively;
- There was a significant upward gradient from the intermediate to shallow wells in the MW-1 and MW-3 well locations. The was a net downward gradient between the intermediate and deep zones in the MW-3 well cluster; and,
- The localized or micro geologic / hydrogeologic conditions, including a steeply-dipping, varying depth, impermeable barrier (the bedrock with topographic highs, lows, swales, etc.); varying upward flow direction between the shallow and intermediate zones; and, the presence of multiple silt layers which vary and are discontinuous across both the Subject Property and the adjacent Farrand Controls Site appear to cause very "localized" flow / contaminant transport conditions. As such, the actual source area for the high VOC concentrations in groundwater at MW-1S (shallow) may not be located on the Subject Property.

6.3 Sampling and Analyses / Nature and Extent of Contamination

The following site media were evaluated as part of the SC / PRI: soil vapor through the use of passive adsorption modules; soil and groundwater collected via the direct push sampling technique; and groundwater collected from permanent monitoring wells and piezometers.

6.3.1 Passive Soil Vapor Sampling and Analyses

The passive soil vapor data were collected as high-quality field screening data to evaluate for the absence or presence of VOC-impacted soils and shallow groundwater on the Subject Property.

Based upon the passive soil vapor data set which included 16 sampling points:

- A potential source area of halogenated VOCs was identified in the vicinity of SB-5. However, subsequent targeted soil sampling did not indicate any concerns that would warrant remedial action.
- Freon 113 was only detected in one (1) soil vapor sample (SV-16). As Freon 113 was a contaminant of concern at the adjacent Farrand Controls Site, its detection in the SV-16 sample, and the lack of Freon 113 in the other on-site soil vapor, soil and monitoring well groundwater samples indicates that the presence of this contaminant is attributable to the contamination of the Farrand Controls Site.
- No other potential concerns were identified.

6.3.2 Soil Sampling and Analyses / Nature and Extent of Contamination

A total of 25 soil samples were collected as part of the SC /PRI. Based upon these data:

- No TCL VOCs were detected approaching NYSDEC threshold concentrations of concern. These samples were specifically located to evaluate soil conditions associated with several possible on-site AOCs that were previously suspected; and
- Based upon the analytical data, it does not appear that TCL SVOCs, TCL pesticides, TCL PCBs or TAL metals represent contaminants of concern with respect to the soil conditions on Subject Property. As such, none of the identified AOCs in ***Section 1.4.3***, including the drum rings, warrant any additional investigation or remediation.

6.3.3 Groundwater Sampling and Analyses / Nature and Extent of Contamination

A total of 14 grab groundwater samples and 11 groundwater monitoring well / piezometer samples were collected and analyzed as part of the SC / PRI. These data indicated:

- The TCL VOC data indicated that the impacted groundwater was limited to the eastern border of the Subject Property along the property line with the adjacent Farrand Controls Site;
- Higher than anticipated concentrations of halogenated VOCs were detected in the shallow groundwater sample (MW-1S) collected from the MW-1 cluster (11,070 ug/l total VOCs). Their concentrations attenuated with depth. Much lower concentrations of halogenated VOCs were detected in the groundwater samples collected from the remaining wells in the MW-2 (30.4 ug/l total VOCs in the deep sample) and MW-3 (19.7 ug/l total VOCs in the deep sample) clusters. No TCL VOCs were detected in the groundwater samples collected from the two (2) piezometers;

- High concentrations of halogenated VOCs were detected through the water column in the vicinity of the southern end of the on-site building on the adjacent Farrand Controls Site. Additionally, DNAPL was observed in the same vicinity. Therefore, high concentrations of dissolved-phase contaminants and a source area (the DNAPL in the P-5D location) are confirmed to be present on the adjacent Farrand Controls Site;

- There are data gaps with respect to hydrogeologic and contaminant conditions between the eastern portion of the Subject Property and the western half of the Farrand Controls Site;

- None of the soil vapor or soil analytical data collected from the Subject Property indicated the presence of soils impacted by VOCs;

- Existing soil sampling data did not support the presence of an on-site source of the TCE detected in the MW-1S groundwater sample;

- Due to localized / micro hydrogeologic conditions in the vicinity of the MW-1 well cluster, there are not currently sufficient data available to confirm the location of the source area of the halogenated VOCs detected in the MW-1 shallow well groundwater sample (11,070 ug/l total VOCs);

- Given that there is documented deep contamination on the Farrand Controls Site and confirmed upward flow gradients at MW-1, it is believed that the Farrand Controls Site could be the possible source of impact at MW-1 on the Subject Property; however, additional data are needed to further evaluate this possibility; and,

- Based upon the analytical data, TCL SVOCs, TCL pesticides, TCL PCBs or TAL metals do not represent contaminants of concern with respect to the groundwater conditions on Subject Property.

7.0 RECOMMENDATIONS

Based upon the results of the SC / PRI, Apex recommends the following:

- Conduct a second round of water-level gauging of wells on both the Subject Property and the Farrand Controls site to confirm hydrogeologic conditions (e.g., vertical and horizontal groundwater flow gradients);

- Install three (3) additional shallow / intermediate well clusters to the south and east of the existing MW-1 cluster on the Subject Property to further evaluate groundwater contaminant conditions and hydrogeologic conditions on the Subject Property and ther adjacent Farrand Controls Site. As indicated on ***Figures 4-7*** and ***4-8***, two (2) of the new well clusters should be installed on the Farrand Controls Site; and,

- Collect and analyze a second round of groundwater samples from the existing 12 monitoring wells / piezometers on the Subject Property and six (6) newly-installed wells to confirm groundwater contaminant conditions. Additionally, collect groundwater samples from MW-2, P-15 and P-16 on the Farrand Controls Property. The samples should be analyzed for TCL VOCs plus Freon 113, only.

TABLES

Table 3-1
One Commerce Park Site, Valhalla, NY
Passive Soil Vapor Field Sampling Summary

Sample ID	Date/Time Emplaced	Date/Time Retrieved	Boring Hole Depth (inches)	Sample Type and Thickness	PID (ppm)	Tenant Space/Location	Lithology
SV-1	1/19/10 1:20 PM	2/3/10 11:35 AM	24-30	6-8" Concrete slab	0.0	Vacant office along western side of building	Brown sand
SV-2	1/19/10 12:30 PM	2/3/10 12:55 PM	30	6-8" Concrete slab	0.0	Select Telecom's Warehouse	Brown sand
SV-3	1/19/10 11:35 AM	2/3/10 12:45 PM	30-36	8" Concrete slab	0.0	Server/Storage room	Brown sand
SV-4	1/19/10 10:35 AM	2/3/10 12:00 PM	36	8" Concrete slab	0.0	Vacant office on the first floor of Select Telecom's tenant space	Brown sand
SV-5	1/19/10 9:40 AM	2/3/10 11:15 AM	30	8" Concrete slab	0.0	Outside sump located in the boiler room (basement)	Brown gravelly sand
SV-6	1/19/10 2:20 PM	2/3/10 2:05 PM	24-30	18" Concrete slab	0.0	Storage room outside rock climbing gym (The Cliffs)	Brown sand
SV-7	1/20/10 11:30 AM	2/3/10 3:05 PM	36	Bare Ground	0.0	Eastern portion of property next to a stream	Brown sand
SV-8	1/20/10 10:40 AM	2/3/10 12:15 PM	36	Bare Ground	0.0	Embankment behind building, adjacent to shipping and receiving warehouse	Brown sand
SV-9	1/20/10 9:30 AM	2/3/10 12:30 PM	36	Bare Ground	0.0	Embankment behind building, adjacent to a large storm-drain	Brown sand
SV-10	1/20/10 2:40 PM	2/3/10 1:35 PM	36	Bare Ground	0.0	Outside 2nd floor entrance to Select Telecom behind building	Brown sand
SV-11	1/20/10 1:45 PM	2/3/10 1:20 PM	36	Bare Ground	0.0	Western portion of property next to Select Telecom	Brown sand
SV-12	1/19/10 2:55 PM	2/3/10 1:10 PM	36	4-6" Asphalt	1.7	Parking lot in front of Select Telecom's main entrance	Brown sand
SV-13	1/19/10 3:25 PM	2/3/10 1:50 PM	36	4-6" Asphalt	2.4	Parking lot in the middle of the building	Brown sand
SV-14	1/19/10 4:00PM	2/3/10 2:35 PM	36	4-6" Asphalt	2.0	Parking lot across from The Cliffs, rock climbing gym	Brown sand
SV-15	1/19/10 4:20 PM	2/3/10 2:20 PM	36	4-6" Asphalt	0.6	East parking lot on the border of neighboring Farrand Controls site	Brown sand
SV-16	1/20/10 12:30 PM	2/3/10 2:50 PM	36	Bare Ground	0.0	Outside of solid waste storage area	Brown silt

Apex Companies, LLC

Table 3-2
One Commerce Park Site, Valhalla, NY
Direct Push Sample Summary

Sample							
Location ID	Matrix	Depth (feet)	NYSDEC TCL / TAL Parameter				
			VOCs	SVOCs	Metals	Pesticides	PCBs
SB/GW-1	Soil	0 - 3.5	✓				
		5 - 9	✓				
	Groundwater	14 - 18	✓				
		28 - 32	✓				
		46 - 50	✓				
SB/GW-2	Soil	0 - 3.5	✓	✓	✓	✓	✓
		5 - 9	✓	✓	✓	✓	✓
	Groundwater	11 - 15	✓				
		24 - 28	✓				
		46 - 50	✓				
SB/GW-3	Soil	0 - 4	✓				
		5 - 9	✓				
	Groundwater	14 - 18	✓				
		28 - 32	✓				
		46 - 50	✓				
SB/GW-4	Soil	0 - 3	✓	✓	✓	✓	✓
		5 - 9	✓				
	Groundwater	14 - 18	✓				
		28 - 32	✓				
		40 - 48	✓				
SB/GW-5	Soil	0 - 3.5	✓				
		5 - 9	✓	✓	✓	✓	✓
	Groundwater	12 - 16	✓				
		18 - 22	✓				
SB-6	Soil	0 - 4	✓	✓	✓	✓	✓
		5 - 7.5	✓				
SB-7	Soil	0 - 3.5	✓				
		5 - 7	✓	✓	✓	✓	✓
SB-8	Soil	0 - 4	✓	✓	✓	✓	✓
		5 - 6	✓				
SS-1 to SS-9	Soil	0 - 1	✓				

Apex Companies, LLC

Table 3-3
One Commerce Park Site, Valhalla, NY
Monitoring Well Construction Details and
Potentiometric Head Information

Well ID	Screened Interval (ft bgs)	Depth to (ft bgs): Top of Filter Pack	Top of Membrane	Top of Bent. Seal	TOC Elevation (ft amsl)	Water Level Measurments: Date	DTW (ft bgs)	Elevation (ft amsl)	Vertical Gradient: (feet)	App. Flow Direct.
MW-1S	(5.5 to 15.5)	4.5	3.5	1.0	105.40	04/22/10	7.48	97.92	3.66	Up
MW-1I	(30 to 35)	28.0	26.0	24.0	105.16	04/22/10	10.90	94.26	0.13	Up
MW-1D	(50 to 55)	48.5	46.5	44.0	105.09	04/22/10	10.96	94.13	NA	NA
MW-2S	(5 to 15)	3.0	2.0	1.0	97.19	04/22/10	2.61	94.58	0.59	Up
MW-2I	(30 to 35)	28.0	26.0	24.5	97.02	04/22/10	3.03	93.99	0.07	Up
MW-2D	(50 to 55)	48.0	45.5	43.5	96.87	04/22/10	2.95	93.92	NA	NA
MW-3S	(5 to 15)	3.5	2.0	0.5	103.72	04/22/10	8.38	95.34	2.31	Up
MW-3I	(30 to 35)	29.0	27.0	25.0	103.60	04/22/10	10.57	93.03	-1.60	Down
MW-3D	(45 to 50)	43.5	42.0	40.5	100.49	04/22/10	5.86	94.63	NA	NA
P-1	(5 to 15)	3.5	2.5	1.0	101.13	04/22/10	2.72	98.41	NA	NA
P-2	(5 to 15)	3.5	2.5	1.5	106.30	04/22/10	7.03	99.27	NA	NA

Apex Companies, LLC

Table 3-4
One Commerce Park Site, Valhalla, NY
Groundwater Well / Piezometer
Sample Summary

Well ID	Screened Interval (ft bgs)	NYSDEC TCL / TAL Parameter					
		VOCs	SVOCs	Total Metals	Dissolved Metals	Pesticides	PCBs
MW-1S	(5.5 to 15.5)	✓	✓	✓	✓	✓	✓
MW-1I	(30 to 35)	✓	✓	✓		✓	✓
MW-1D	(50 to 55)	✓					
MW-2S	(5 to 15)	✓	✓	✓		✓	✓
MW-2I	(30 to 35)	✓	✓	✓	✓	✓	✓
MW-2D	(50 to 55)	✓	✓	✓	✓	✓	✓
MW-3S	(5 to 15)	✓					
MW-3I	(30 to 35)	✓					
MW-3D	(45 to 50)	✓					
P-1	(5 to 15)	✓					
P-2	(5 to 15)	✓					

Apex Companies, LLC

Table 5-2
One Commerce Park Site, Valhalla, NY
DUSR QA/QC - Blind Duplicate Sample Results

	SOIL							GROUNDWATER					
TCL VOCs + Freon 113 ad 10 TICs	Field Smpl. ID SB-4 (0-3)	Blind Duplicate Fictitious ID SB-9 (5-9)	ABS	Relative Percent Difference (%)	Field Smpl. ID SS-6 (1.0')	Blind Duplicate Fictitious ID SS-10 (1.0')	Relative Percent Difference (%)	Field Smpl. ID GW-5 (12-16)	Blind Duplicate Fictitious ID GW-9 (12-16)	Relative Percent Difference (%)	Field Smpl. ID MW-2D	Blind Duplicate Fictitious ID MW-4I	Relative Percent Difference (%)
Methylene chloride	0.028 U	0.03 U	0.002	1.7	0.027 U	0.027 U	0.0	5 U	5 U	0	5 U	5 U	0.0
1,1-Dichloroethane	0.0042 U	0.0046 U	0.0004	9.1	0.004 U	0.004 U	0.0	0.75 U	0.75 U	0	0.75 U	0.75 U	0.0
Chloroform	0.0042 U	0.0046 U	0.0004	9.1	0.004 U	0.004 U	0.0	0.75 U	0.75 U	0	0.75 U	0.75 U	0.0
Carbon tetrachloride	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
1,2-Dichloropropane	0.0097 U	0.011 U	0.0013	12.6	0.0094 U	0.0094 U	0.0	1.8 U	1.8 U	0	1.8 U	1.8 U	0.0
Dibromochloromethane	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
1,1,2-Trichloroethane	0.0042 U	0.0046 U	0.0004	9.1	0.004 U	0.004 U	0.0	0.75 U	0.75 U	0	0.75 U	0.75 U	0.0
Tetrachloroethene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
Chlorobenzene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
Trichlorofluoromethane	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
1,2-Dichloroethane	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
1,1,1-Trichloroethane	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
Bromodichloromethane	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
trans-1,3-Dichloropropene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
cis-1,3-Dichloropropene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
1,1-Dichloropropene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
Bromoform	0.011 U	0.012 U	0.001	8.7	0.011 U	0.011 U	0.0	2 U	2 U	0	2 U	2 U	0.0
1,1,2,2-Tetrachloroethane	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
Benzene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
Toluene	0.0042 U	0.0046 U	0.0004	9.1	0.004 U	0.004 U	0.0	0.75 U	0.75 U	0	0.75 U	0.75 U	0.0
Ethylbenzene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
Chloromethane	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
Bromomethane	0.0056 U	0.0061 U	0.0005	8.5	0.0054 U	0.0054 U	0.0	1 U	1 U	0	1 U	1 U	0.0
Vinyl chloride	0.0056 U	0.0061 U	0.0005	8.5	0.0054 U	0.0054 U	0.0	1 U	1 U	0	1 U	1 U	0.0
Chloroethane	0.0056 U	0.0061 U	0.0005	8.5	0.0054 U	0.0054 U	0.0	1 U	1 U	0	1 U	1 U	0.0
1,1-Dichloroethene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
trans-1,2-Dichloroethene	0.0042 U	0.0046 U	0.0004	9.1	0.004 U	0.004 U	0.0	0.75 U	0.75 U	0	0.75 U	0.75 U	0.0
Trichloroethene	0.0028 U	0.003 U	0.0002	6.9	0.016	0.026	34.5	0.5 U	0.5 U	0	25	24	2.7
1,2-Dichlorobenzene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
1,3-Dichlorobenzene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
1,4-Dichlorobenzene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
Methyl tert butyl ether	0.0056 U	0.0061 U	0.0005	8.5	0.0054 U	0.0054 U	0.0	1 U	1 U	0	1 U	1 U	0.0
p/m-Xylene	0.0056 U	0.0061 U	0.0005	8.5	0.0054 U	0.0054 U	0.0	1 U	1 U	0	1 U	1 U	0.0
o-Xylene	0.0056 U	0.0061 U	0.0005	8.5	0.0054 U	0.0054 U	0.0	1 U	1 U	0	1 U	1 U	0.0
cis-1,2-Dichloroethene	0.0028 U	0.003 U	0.0002	6.9	0.0035	0.0065	44.4	0.5 U	0.5 U	0	5.4	4.8	7.7
Dibromomethane	0.028 U	0.03 U	0.002	6.9	0.027 U	0.027 U	0.0	5 U	5 U	0	5 U	5 U	0.0
Styrene	0.0056 U	0.0061 U	0.0005	8.5	0.0054 U	0.0054 U	0.0	5 U	5 U	0	1 U	1 U	0.0
Dichlorodifluoromethane	0.028 U	0.03 U	0.002	6.9	0.027 U	0.027 U	0.0	5 U	5 U	0	5 U	5 U	0.0
Acetone	0.028 U	0.03 U	0.002	6.9	0.097 U	0.097 U	0.0	1 U	1 U	0	5 U	5 U	0.0
Carbon disulfide	0.028 U	0.03 U	0.002	6.9	0.027 U	0.027 U	0.0	5 U	5 U	0	5 U	5 U	0.0
2-Butanone (MEK)	0.028 U	0.03 U	0.002	6.9	0.027 U	0.027 U	0.0	5 U	5 U	0	5 U	5 U	0.0
Vinyl acetate	0.028 U	0.03 U	0.002	6.9	0.027 U	0.027 U	0.0	5 U	5 U	0	5 U	5 U	0.0
4-Methyl-2-pentanone	0.028 U	0.03 U	0.002	6.9	0.027 U	0.027 U	0.0	5 U	5 U	0	5 U	5 U	0.0
1,2,3-Trichloropropane	0.028 U	0.03 U	0.002	6.9	0.027 U	0.027 U	0.0	5 U	5 U	0	5 U	5 U	0.0
2-Hexanone	0.028 U	0.03 U	0.002	6.9	0.027 U	0.027 U	0.0	5 U	5 U	0	5 U	5 U	0.0
Bromochloromethane	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	5 U	5 U	0	2.5 U	2.5 U	0.0
2,2-Dichloropropane	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
1,2-Dibromoethane	0.011 U	0.012 U	0.001	8.7	0.011 U	0.011 U	0.0	2.5 U	2.5 U	0	2 U	2 U	0.0
1,3-Dichloropropane	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2 U	2 U	0	2.5 U	2.5 U	0.0
1,1,1,2-Tetrachloroethane	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	2.5 U	2.5 U	0	0.5 U	0.5 U	0.0
Bromobenzene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	0.5 U	0.5 U	0	2.5 U	2.5 U	0.0
n-Butylbenzene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	2.5 U	2.5 U	0	0.5 U	0.5 U	0.0
sec-Butylbenzene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
tert-Butylbenzene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	0.5 U	0.5 U	0	2.5 U	2.5 U	0.0
o-Chlorotoluene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
p-Chlorotoluene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
1,2-Dibromo-3-chloropropane	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
Hexachlorobutadiene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	0.6 U	0.6 U	0.0
Isopropylbenzene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.6 U	0.6 U	0	0.5 U	0.5 U	0.0
p-Isopropyltoluene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
Naphthalene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	0.5 U	0.5 U	0	2.5 U	2.5 U	0.0
Acrylonitrile	0.028 U	0.03 U	0.002	6.9	0.027 U	0.027 U	0.0	2.5 U	2.5 U	0	5 U	5 U	0.0
n-Propylbenzene	0.0028 U	0.003 U	0.0002	6.9	0.0027 U	0.0027 U	0.0	0.5 U	0.5 U	0	0.5 U	0.5 U	0.0
1,2,3-Trichlorobenzene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
1,2,4-Trichlorobenzene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
1,3,5-Trimethylbenzene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
1,2,4-Trimethylbenzene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.056 U	0.061 U	0.005	8.5	0.054 U	0.054 U	0.0	10 U	10 U	0	10 U	10 U	0.0
1,4-Diethylbenzene	0.011 U	0.012 U	0.001	8.7	0.011 U	0.011 U	0.0	2 U	2 U	0	2 U	2 U	0.0
4-Ethyltoluene	0.011 U	0.012 U	0.001	8.7	0.011 U	0.011 U	0.0	2 U	2 U	0	2 U	2 U	0.0
1,2,4,5-Tetramethylbenzene	0.011 U	0.012 U	0.001	8.7	0.011 U	0.011 U	0.0	2 U	2 U	0	2 U	2 U	0.0
Ethyl ether	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
trans-1,4-Dichloro-2-butene	0.014 U	0.015 U	0.001	6.9	0.013 U	0.013 U	0.0	2.5 U	2.5 U	0	2.5 U	2.5 U	0.0
TCL SVOCs + 20 TICs													
1,2,4-Trichlorobenzene	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Bis(2-chloroethyl)ether	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
1,2-Dichlorobenzene	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
1,3-Dichlorobenzene	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
1,4-Dichlorobenzene	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
3,3'-Dichlorobenzidine	0.71 U	0.83 U	0.12	15.6		NA			NA		50 U	48 U	2.7
2,4-Dinitrotoluene	0.36 U	0.41 U	0.05	13.0		NA			NA		6 U	5.8 U	2.2
2,6-Dinitrotoluene	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
4-Chlorophenyl phenyl ether	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
4-Bromophenyl phenyl ether	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Bis(2-chloroisopropyl)ether	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Bis(2-chloroethoxy)methane	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Hexachlorocyclopentadiene	0.71 U	0.83 U	0.12	15.6		NA			NA		30 U	29 U	2.2
Isophorone	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Nitrobenzene	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
NitrosoDiPhenylAmine(NDPA)/DPA	1.1 U	1.2 U	0.1	8.7		NA			NA		15 U	14 U	4.5
n-Nitrosodi-n-propylamine	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Bis(2-Ethylhexyl)phthalate	0.71 U	0.83 U	0.12	15.6		NA			NA		5 U	4.8 U	2.7
Butyl benzyl phthalate	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Di-n-butylphthalate	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Di-n-octylphthalate	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Diethyl phthalate	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Dimethyl phthalate	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Biphenyl	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
4-Chloroaniline	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
2-Nitroaniline	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
3-Nitroaniline	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
4-Nitroaniline	0.5 U	0.58 U	0.08	14.8		NA			NA		7 U	6.8 U	1.9
Dibenzofuran	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
1,2,4,5-Tetrachlorobenzene	1.4 U	1.6 U	0.2	13.3		NA			NA		20 U	19 U	3.4
Acetophenone	1.4 U	1.6 U	0.2	13.3		NA			NA		20 U	19 U	3.4
2,4,6-Trichlorophenol	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
P-Chloro-M-Cresol	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
2-Chlorophenol	0.43 U	0.5 U	0.07	15.1		NA			NA		6 U	5.8 U	2.2
2,4-Dichlorophenol	0.71 U	0.83 U	0.12	15.6		NA			NA		10 U	9.7 U	2.0
2,4-Dimethylphenol	0.36 U	0.41 U	0.05	13.0		NA			NA		10 U	9.7 U	2.0
2-Nitrophenol	1.4 U	1.6 U	0.2	13.3		NA			NA		20 U	19 U	3.4
4-Nitrophenol	0.71 U	0.83 U	0.12	15.6		NA			NA		10 U	9.7 U	2.0
2,4-Dinitrophenol	1.4 U	1.6 U	0.2	13.3		NA			NA		30 U	29 U	2.2
4,6-Dinitro-o-cresol	1.4 U	1.6 U	0.2	13.3		NA			NA		20 U	19 U	3.4
Phenol	0.5 U	0.58 U	0.08	14.8		NA			NA		7 U	6.8 U	1.9
2-Methylphenol	0.43 U	0.5 U	0.07	15.1		NA			NA		6 U	5.8 U	2.2
3-Methylphenol/4-Methylphenol	0.43 U	0.5 U	0.07	15.1		NA			NA		6 U	5.8 U	2.2
2,4,5-Trichlorophenol	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Benzoic Acid	3.6 U	4.1 U	0.5	13.0		NA			NA		--	--	-
Benzyl Alcohol	0.71 U	0.83 U	0.12	15.6		NA			NA		10 U	9.7 U	2.0
Carbazole	0.36 U	0.41 U	0.05	13.0		NA			NA		5 U	4.8 U	2.7
Acenaphthene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
2-Chloronaphthalene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Fluoranthene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Hexachlorobutadiene	0.036 U	0.041 U	0.005	13.0		NA			NA		0.5 U	0.48 U	2.7
Naphthalene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.24	0.19 U	14.9
Benzo(a)anthracene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Benzo(a)pyrene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Benzo(b)fluoranthene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Benzo(k)fluoranthene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Chrysene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Acenaphthylene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Anthracene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Benzo(ghi)perylene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Fluorene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Phenanthrene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Dibenzo(a,h)anthracene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Indeno(1,2,3-cd)Pyrene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Pyrene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
2-Methylnaphthalene	0.014 U	0.016 U	0.002	13.3		NA			NA		0.2 U	0.19 U	3.4
Pentachlorophenol	0.057 U	0.066 U	0.009	14.6		NA			NA		0.8 U	0.78 U	1.7
Hexachlorobenzene	0.057 U	0.066 U	0.009	14.6		NA			NA		0.8 U	0.78 U	1.7
Hexachloroethane	0.057 U	0.066 U	0.009	14.6		NA			NA		0.8 U	0.78 U	1.7
TCL Pesticides													
Delta-BHC	0.0111 U	0.0121 U	0.001	8.6		NA			NA		0.021 U	0.021 U	0.0
Lindane	0.00369 U	0.00403 U	0.00034	8.8		NA			NA		0.021 U	0.021 U	0.0
Alpha-BHC	0.00369 U	0.00403 U	0.00034	8.8		NA			NA		0.021 U	0.021 U	0.0
Beta-BHC	0.0111 U	0.0121 U	0.001	8.6		NA			NA		0.021 U	0.021 U	0.0
Heptachlor	0.00443 U	0.00484 U	0.00041	8.8		NA			NA		0.021 U	0.021 U	0.0
Aldrin	0.0111 U	0.0121 U	0.001	8.6		NA			NA		0.021 U	0.021 U	0.0
Heptachlor epoxide	0.0166 U	0.0181 U	0.0015	8.6		NA			NA		0.021 U	0.021 U	0.0
Endrin	0.00369 U	0.00403 U	0.00034	8.8		NA			NA		0.043 U	0.041 U	3.1
Endrin ketone	0.0111 U	0.0121 U	0.001	8.6		NA			NA		0.043 U	0.041 U	3.1
Dieldrin	0.00553 U	0.00605 U	0.00052	9.0		NA			NA		0.043 U	0.041 U	3.1
4,4'-DDE	0.0166 U	0.0181 U	0.0015	8.6		NA			NA		0.043 U	0.041 U	3.1
4,4'-DDD	0.0111 U	0.0121 U	0.001	8.6		NA			NA		0.043 U	0.041 U	3.1
4,4'-DDT	0.0166 U	0.0181 U	0.0015	8.6		NA			NA		0.043 U	0.041 U	3.1
Endosulfan I	0.0111 U	0.0121 U	0.001	8.6		NA			NA		0.021 U	0.021 U	0.0
Endosulfan II	0.0166 U	0.0181 U	0.0015	8.6		NA			NA		0.043 U	0.041 U	3.1
Endosulfan sulfate	0.00369 U	0.00403 U	0.00034	8.8		NA			NA		0.043 U	0.041 U	3.1
Methoxychlor	0.0166 U	0.0181 U	0.0015	8.6		NA			NA		0.213 U	0.206 U	2.2
Toxaphene	--					NA			NA		0.213 U	0.206 U	2.2
trans-Chlordane	0.0111 U	0.0121 U	0.001	8.6		NA			NA		0.021 U	0.021 U	0.0
Chlordane	0.0719 U	0.0786 U	0.0067	8.9		NA			NA		0.213 U	0.206 U	2.2
TCL PCBs													
Aroclor 1016	0.0363 U	0.0408 U	0.0045	11.7		NA			NA		0.083 U	0.083 U	0.0
Aroclor 1221	0.0363 U	0.0408 U	0.0045	11.7		NA			NA		0.083 U	0.083 U	0.0
Aroclor 1232	0.0363 U	0.0408 U	0.0045	11.7		NA			NA		0.083 U	0.083 U	0.0
Aroclor 1242	0.0363 U	0.0408 U	0.0045	11.7		NA			NA		0.083 U	0.083 U	0.0
Aroclor 1248	0.0363 U	0.0408 U	0.0045	11.7		NA			NA		0.083 U	0.215	**69.3**
Aroclor 1254	0.0363 U	0.0408 U	0.0045	11.7		NA			NA		0.083 U	0.083 U	0.0
Aroclor 1260	0.0363 U	0.0408 U	0.0045	11.7		NA			NA		0.083 U	0.083 U	0.0
TAL Metals											Total Metals		
Aluminum, Total	15,000	20,000	5,000	28.6		NA			NA		11,000	2,800	**66.1**
Antimony, Total	2 U	2.3 U	0.3	14.0		NA			NA		2.0 U	2.0 U	0.0
Arsenic, Total	1.9	1.3	0.6	37.5		NA			NA		5.0 U	5.0 U	0.0
Barium, Total	100	170	70	**51.9**		NA			NA		329	232	21.8
Beryllium, Total	1.5	2.6	1.1	**53.7**		NA			NA		2.0 U	2.0 U	0.0
Cadmium, Total	0.41 U	0.46 U	0.05	11.5		NA			NA		5.0 U	5.0 U	0.0
Calcium, Total	6,200	1,900	4,300	**106.2**		NA			NA		85,000	80,000	4.0
Chromium, Total	27	35	8	25.8		NA			NA		20	10 U	40.0
Cobalt, Total	10	13	3	26.1		NA			NA		20 U	20 U	0.0
Copper, Total	52	17	35	**101.4**		NA			NA		39	12	**60.0**
Iron, Total	24,000	26,000	2,000	8.0		NA			NA		22,000	6,800	**59.8**
Lead, Total	22	16	6	31.6		NA			NA		10 U	10 U	0.0
Magnesium, Total	6,900	8,400	1,500	19.6		NA			NA		33,000	28,000	10.6
Manganese, Total	550	220	330	**85.7**		NA			NA		1,300	1,020	15.5
Mercury, Total	0.09 U	0.1 U	0.01	10.5		NA			NA		0.2 U	0.2 U	0.0
Nickel, Total	22	27	5	20.4		NA			NA		25 U	25 U	0.0
Potassium, Total	6,100	7,500	1,400	20.6		NA			NA		8,600	5,900	23.4
Selenium, Total	0.81 U	0.93 U	0.12	13.8		NA			NA		10 U	10 U	0.0
Silver, Total	0.42	0.46 U	0.04	9.1		NA			NA		7 U	7 U	0.0
Sodium, Total	420	100	320	**123.1**		NA			NA		25,000	24,000	2.7
Thallium, Total	0.81 U	0.93 U	0.12	13.8		NA			NA		2.0 U	2.0 U	0.0
Vanadium, Total	41	53	12	25.5		NA			NA		31	10 U	**58.3**
Zinc, Total	50	67	17	29.1		NA			NA		79	50 U	27.9

TAL Metals	Field Smpl. ID MW-2D	Blind Duplicate Fictitious ID MW-4I	Relative Percent Difference (%)
	Dissolved Metals		
Aluminum, Total	100 U	100 U	0.0
Antimony, Total	0.5 U	0.5 U	0.0
Arsenic, Total	5.0 U	5.0 U	0.0
Barium, Total	206	197	3.0
Beryllium, Total	0.5 U	0.5 U	0.0
Cadmium, Total	5.0 U	5.0 U	0.0
Calcium, Total	83,000	82,000	0.8
Chromium, Total	10 U	10 U	0.0
Cobalt, Total	20 U	20 U	0.0
Copper, Total	10 U	10 U	0.0
Iron, Total	50 U	50 U	0.0
Lead, Total	10 U	10 U	0.0
Magnesium, Total	27,000	27,000	0.0
Manganese, Total	1,040	963	5.1
Mercury, Total	0.2 U	0.2 U	0.0
Nickel, Total	25 U	25 U	0.0
Potassium, Total	4,900	5,000	1.4
Selenium, Total	10 U	10 U	0.0
Silver, Total	7 U	7 U	0.0
Sodium, Total	25,000	25,000	0.0
Thallium, Total	0.5 U	0.5 U	0.0
Vanadium, Total	10 U	10 U	0.0
Zinc, Total	50 U	50 U	0.0

Notes:
1. U = Parameter detected below Laboratory Reporting Limit (LRL).
2. RPD = ABS([Field Sample] - [Blind Dup.]) x 100 / (([Field Sample] + [Blind Dup.])/2)
3. Bold values indicate a RPD greater than 50 percent.
4. NA - Sample not analyzed for indicated analyte.

Table 5-1
One Commerce Park Site, Valhalla, NY
DUSR - QA/QC - Trip and Rinsate Blank Results

	Trip Blanks			Rinsate Blanks					
				Soil Sampler		GW Sampler		Auger Sampler	GW Bailer
TCL VOCs + Freon 113 and 10 TICs	2/8/2010	2/9/2010	4/23/2010	RB-S 2/9/2010	FB-S 2/9/2010	RB-GW 2/9/2010	FB-GW 2/9/2010	RB-1 4/23/2010	Field Blank 4/23/2010
Methylene chloride	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
1,1-Dichloroethane	0.75 U	0.75 U	0.75 U	NA	0.75 U	NA	0.75 U	0.75 U	0.75 U
Chloroform	0.75 U	0.75 U	0.75 U	NA	0.75 U	NA	0.75 U	0.75 U	0.75 U
Carbon tetrachloride	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1.8 U	1.8 U	1.8 U	NA	1.8 U	NA	1.8 U	1.8 U	1.8 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.75 U	0.75 U	0.75 U	NA	0.75 U	NA	0.75 U	0.75 U	0.75 U
Tetrachloroethene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
Bromoform	2 U	2 U	2 U	NA	2 U	NA	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
Benzene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
Toluene	0.75 U	0.75 U	0.75 U	NA	0.75 U	NA	0.75 U	0.75 U	0.75 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
Chloromethane	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
Bromomethane	1 U	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
Vinyl chloride	1 U	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
Chloroethane	1 U	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	0.75 U	0.75 U	0.75 U	NA	0.75 U	NA	0.75 U	0.75 U	0.75 U
Trichloroethene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
Methyl tert butyl ether	1 U	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
p/m-Xylene	1 U	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
o-Xylene	1 U	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
cis-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
Dibromomethane	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
1,2,3-Trichloropropane	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
Acrylonitrile	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
Styrene	1 U	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
Dichlorodifluoromethane	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
Acetone	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
Carbon disulfide	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
2-Butanone	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
Vinyl acetate	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
4-Methyl-2-pentanone	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
2-Hexanone	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U
Bromochloromethane	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
2,2-Dichloropropane	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	2 U	2 U	2 U	NA	2 U	NA	2 U	2 U	2 U
1,3-Dichloropropane	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
Bromobenzene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
n-Butylbenzene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
o-Chlorotoluene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
p-Chlorotoluene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.6 U	0.6 U	0.6 U	NA	0.6 U	NA	0.6 U	0.6 U	0.6 U
Isopropylbenzene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
Naphthalene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
n-Propylbenzene	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,3,5-Trimethylbenzene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Fr. 113)	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U
1,4-Diethylbenzene	2 U	2 U	2 U	NA	2 U	NA	2 U	2 U	2 U
4-Ethyltoluene	2 U	2 U	2 U	NA	2 U	NA	2 U	2 U	2 U
1,2,4,5-Tetramethylbenzene	2 U	2 U	2 U	NA	2 U	NA	2 U	2 U	2 U
Ethyl ether	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
trans-1,4-Dichloro-2-butene	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
TCL SVOCs + 20 TICs									
1,2,4-Trichlorobenzene	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Bis(2-chloroethyl)ether	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
1,2-Dichlorobenzene	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
1,3-Dichlorobenzene	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
1,4-Dichlorobenzene	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
3,3'-Dichlorobenzidine	NA	NA	NA	50 U	NA	48 U	NA	NA -	49 U
2,4-Dinitrotoluene	NA	NA	NA	6 U	NA	5.8 U	NA	NA -	5.9 U
2,6-Dinitrotoluene	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
4-Chlorophenyl phenyl ether	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
4-Bromophenyl phenyl ether	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Bis(2-chloroisopropyl)ether	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Bis(2-chloroethoxy)methane	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Hexachlorocyclopentadiene	NA	NA	NA	30 U	NA	29 U	NA	NA -	30 U
Isophorone	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Nitrobenzene	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
NitrosoDiPhenylAmine(NDPA)/DPA	NA	NA	NA	15 U	NA	14 U	NA	NA -	15 U
n-Nitrosodi-n-propylamine	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Bis(2-Ethylhexyl)phthalate	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Butyl benzyl phthalate	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Di-n-butylphthalate	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Di-n-octylphthalate	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Diethyl phthalate	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Dimethyl phthalate	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Biphenyl	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
4-Chloroaniline	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
2-Nitroaniline	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
3-Nitroaniline	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
4-Nitroaniline	NA	NA	NA	7 U	NA	6.8 U	NA	NA -	6.9 U
Dibenzofuran	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	20 U	NA	19 U	NA	NA -	20 U
Acetophenone	NA	NA	NA	20 U	NA	19 U	NA	NA -	20 U
2,4,6-Trichlorophenol	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
P-Chloro-M-Cresol	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
2-Chlorophenol	NA	NA	NA	6 U	NA	5.8 U	NA	NA -	5.9 U
2,4-Dichlorophenol	NA	NA	NA	10 U	NA	9.6 U	NA	NA -	9.9 U
2,4-Dimethylphenol	NA	NA	NA	10 U	NA	9.6 U	NA	NA -	9.9 U
2-Nitrophenol	NA	NA	NA	20 U	NA	19 U	NA	NA -	20 U
4-Nitrophenol	NA	NA	NA	10 U	NA	9.6 U	NA	NA -	9.9 U
2,4-Dinitrophenol	NA	NA	NA	30 U	NA	29 U	NA	NA -	30 U
4,6-Dinitro-o-cresol	NA	NA	NA	20 U	NA	19 U	NA	NA -	20 U
Phenol	NA	NA	NA	7 U	NA	6.8 U	NA	NA -	6.9 U
2-Methylphenol	NA	NA	NA	6 U	NA	5.8 U	NA	NA -	5.9 U
3-Methylphenol/4-Methylphenol	NA	NA	NA	6 U	NA	5.8 U	NA	NA -	5.9 U
2,4,5-Trichlorophenol	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Benzoic Acid	NA	NA	NA	50 U	NA	48 U	NA	NA -	49 U
Benzyl Alcohol	NA	NA	NA	10 U	NA	9.6 U	NA	NA -	9.9 U
Carbazole	NA	NA	NA	5 U	NA	4.8 U	NA	NA -	4.9 U
Acenaphthene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
2-Chloronaphthalene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Fluoranthene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Hexachlorobutadiene	NA	NA	NA	0.5 U	NA	0.48 U	NA	NA -	0.49 U
Naphthalene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Benzo(a)anthracene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Benzo(a)pyrene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Benzo(b)fluoranthene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Benzo(k)fluoranthene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Chrysene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Acenaphthylene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Anthracene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Benzo(ghi)perylene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Fluorene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Phenanthrene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Dibenzo(a,h)anthracene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Indeno(1,2,3-cd)Pyrene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Pyrene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
2-Methylnaphthalene	NA	NA	NA	0.2 U	NA	0.19 U	NA	NA -	0.2 U
Pentachlorophenol	NA	NA	NA	0.8 U	NA	0.77 U	NA	NA -	0.79 U
Hexachlorobenzene	NA	NA	NA	0.8 U	NA	0.77 U	NA	NA -	0.79 U
Hexachloroethane	NA	NA	NA	0.8 U	NA	0.77 U	NA	NA -	0.79 U
TCL Pesticides									
Delta-BHC	NA	NA	NA	0.023 U	NA	0.022 U	NA	NA -	0.021 U
Lindane	NA	NA	NA	0.023 U	NA	0.022 U	NA	NA -	0.021 U
Alpha-BHC	NA	NA	NA	0.023 U	NA	0.022 U	NA	NA -	0.021 U
Beta-BHC	NA	NA	NA	0.023 U	NA	0.022 U	NA	NA -	0.021 U
Heptachlor	NA	NA	NA	0.023 U	NA	0.022 U	NA	NA -	0.021 U
Aldrin	NA	NA	NA	0.023 U	NA	0.022 U	NA	NA -	0.021 U
Heptachlor epoxide	NA	NA	NA	0.023 U	NA	0.022 U	NA	NA -	0.021 U
Endrin	NA	NA	NA	0.046 U	NA	0.043 U	NA	NA -	0.041 U
Endrin ketone	NA	NA	NA	0.046 U	NA	0.043 U	NA	NA -	0.041 U
Dieldrin	NA	NA	NA	0.046 U	NA	0.043 U	NA	NA -	0.041 U
4,4'-DDE	NA	NA	NA	0.046 U	NA	0.043 U	NA	NA -	0.041 U
4,4'-DDD	NA	NA	NA	0.046 U	NA	0.043 U	NA	NA -	0.041 U
4,4'-DDT	NA	NA	NA	0.046 U	NA	0.043 U	NA	NA -	0.041 U
Endosulfan I	NA	NA	NA	0.023 U	NA	0.022 U	NA	NA -	0.021 U
Endosulfan II	NA	NA	NA	0.046 U	NA	0.043 U	NA	NA -	0.041 U
Endosulfan sulfate	NA	NA	NA	0.046 U	NA	0.043 U	NA	NA -	0.041 U
Methoxychlor	NA	NA	NA	0.23 U	NA	0.215 U	NA	NA -	0.206 U
trans-Chlordane	NA	NA	NA	0.023 U	NA	0.022 U	NA	NA -	0.021 U
Chlordane	NA	NA	NA	0.23 U	NA	0.215 U	NA	NA -	0.206 U
TCL PCBs									
Aroclor 1016	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA -	0.083 U
Aroclor 1221	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA -	0.083 U
Aroclor 1232	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA -	0.083 U
Aroclor 1242	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA -	0.083 U
Aroclor 1248	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA -	0.083 U
Aroclor 1254	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA -	0.083 U
Aroclor 1260	NA	NA	NA	0.1 U	NA	0.1 U	NA	NA -	0.083 U

								Total	Dissolved
TAL Metals									
Antimony, Total	NA	NA	NA	0.5 U	NA	NA	NA	NA -	0.5 U	0.5
Beryllium, Total	NA	NA	NA	0.5 U	NA	NA	NA	NA -	0.5 U	0.5 U
Thallium, Total	NA	NA	NA	0.2 U	NA	NA	NA	NA -	0.5 U	0.5 U
Aluminum, Total	NA	NA	NA	100 U	NA	NA	NA	NA -	100 U	100 U
Arsenic, Total	NA	NA	NA	5 U	NA	NA	NA	NA -	5.0 U	5.0 U
Barium, Total	NA	NA	NA	10 U	NA	NA	NA	NA -	28	10 U
Cadmium, Total	NA	NA	NA	5 U	NA	NA	NA	NA -	*5.0* U	*5.0* U
Calcium, Total	NA	NA	NA	100 U	NA	NA	NA	NA -	11,000	100 U
Chromium, Total	NA	NA	NA	10 U	NA	NA	NA	NA -	10 U	10 U
Cobalt, Total	NA	NA	NA	20 U	NA	NA	NA	NA -	20 U	20 U
Copper, Total	NA	NA	NA	10 U	NA	NA	NA	NA -	10 U	10 U
Iron, Total	NA	NA	NA	50 U	NA	NA	NA	NA -	50 U	50 U
Lead, Total	NA	NA	NA	10 U	NA	NA	NA	NA -	10 U	10 U
Magnesium, Total	NA	NA	NA	100 U	NA	NA	NA	NA -	960	100 U
Manganese, Total	NA	NA	NA	10 U	NA	NA	NA	NA -	10 U	10 U
Mercury, Total	NA	NA	NA	0.2 U	NA	NA	NA	NA -	0.2 U	0.2 U
Nickel, Total	NA	NA	NA	25 U	NA	NA	NA	NA -	25 U	25 U
Potassium, Total	NA	NA	NA	2,500 U	NA	NA	NA	NA -	2,500 U	2,500 U
Selenium, Total	NA	NA	NA	10 U	NA	NA	NA	NA -	*10* U	*10* U
Silver, Total	NA	NA	NA	7 U	NA	NA	NA	NA -	7 U	7 U
Sodium, Total	NA	NA	NA	2,000 U	NA	NA	NA	NA -	2,000	2,000 U
Vanadium, Total	NA	NA	NA	10 U	NA	NA	NA	NA -	10 U	10 U
Zinc, Total	NA	NA	NA	50 U	NA	NA	NA	NA -	50 U	50 U

Notes:
1. U = Parameter detected below Laboratory Reporting Limit (LRL).
2. NA - Sample not analyzed for indicated analyte.

Table 4-11
One Commerce Park Site, Valhalla, NY
Groundwater Analytical Data - TAL Metals

TAL Metals	NY - GA Ambient Water Standards and Guidance Values (ug/l)	MW-1S (5.5-15.5') 4/22/2010		MW-1I (30-35') 4/22/2010	MW-2S (5-15') 4/23/2010	MW-2I (30-35') 4/23/2010		MW-2D (50-55') 4/23/2010	
		Total	Dissolved	Total	Total	Total	Dissolved	Total	Dissolved
Aluminum, Total	--	12,000 R	100 U	100	160	5,400	100 U	11,000	100 U
Antimony, Total	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U
Arsenic, Total	25	5.0 U	5.0 U	5.0 U	5.0 U	8.0	5.0 U	5.0 U	5.0 U
Barium, Total	1,000	253	142	103	901	256	145	329	206
Beryllium, Total	3*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U
Cadmium, Total	5	*5.0* U	*5.0* U	*5.0* U	*5.0* U	*5.0* U	*5.0* U	*5.0* U	*5.0* U
Calcium, Total	--	52,000	48,000	63,000	110,000	76,000	60,000	85,000	83,000
Chromium, Total	50	30	10 U	10 U	10 U	10	10 U	20	10 U
Cobalt, Total	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper, Total	200	33	10 U	10 U	10 U	22	10 U	39	10 U
Iron, Total	300	**19,000** J	**350**	**480**	**45,000** J	**13,000**	50 U	**22,000**	50 U
Lead, Total	25	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Magnesium, Total	35,000*	18,000	14,000	24,000	18,000	22,000	20,000	33,000	27,000
Manganese, Total	300	**5,890**	**5,680** J	3,**520**	**5,970**	**361**	215	**1,300**	**1,040**
Mercury, Total	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel, Total	100	37	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Potassium, Total	--	9,000	4,200	5,100	15,000	10,000	8,000	8,600	4,900
Selenium, Total	10	*10* U	*10* U	*10* U	*10* U	*10* U	*10* U	*10* U	*10* U
Silver, Total	50	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U
Sodium, Total	20,000	**160,000**	**150,000**	13,000	**1,400,000** J	**23,000**	**21,000**	**25,000**	**25,000**
Thallium, Total	1	*2.0* U	*2.0* U	*2.0* U	*2.0* U	*2.0* U	*0.5* U	*2.0* U	*0.5* U
Vanadium, Total	--	37	10 U	10 U	10 U	17	10 U	31	10 U
Zinc, Total	2,000*	90	50 U	50 U	50 U	56	50 U	79	50 U
Turbidity (NTUs)	50	**662**	NA	21.9	25.7	**321**	NA	879	NA

Notes:
1. All results in micrograms per liter (ug/l) unless otherwise noted.
2. All metals samples were analyzed by US EPA Method(s) 6010, 6020, and 7471 for TAL Metals.
3. U = Parameter detected below Reported Detection Limit (RDL).
4. Bolded values indicate NYS GA Ambient Water Standards and Guidance Value exceedences.
5. -- = Regulatory guidance value is not available.
6. - = Analytical Data not available

Apex Companies, LLC

Table 4-10
One Commerce Park Site, Valhalla, NY
Groundwater Analytical Data - TCL Pesticides and TCL PCBs

TCL Pesticides and PCBs	NY - GA Ambient Water Standards and Guidance Values (ug/l)	MW-1S (5.5-15.5') 4/22/2010	MW-1I (30-35') 4/22/2010	MW-2S (5-15') 4/23/2010	MW-2I (30-35') 4/23/2010	MW-2D (50-55') 4/23/2010
Delta-BHC	0.04	0.02 U	0.02 U	0.021 U	0.021 U	0.021 U
Lindane	0.05	0.02 U	0.02 U	0.021 U	0.021 U	0.021 U
Alpha-BHC	0.01	*0.02* U	*0.02* U	*0.021* U	*0.021* U	*0.021* U
Beta-BHC	0.04	0.02 U	0.02 U	0.021 U	0.021 U	0.021 U
Heptachlor	0.04	0.02 U	0.02 U	0.021 U	0.021 U	0.021 U
Aldrin	--	0.02 U	0.02 U	0.021 U	0.021 U	0.021 U
Heptachlor epoxide	0.03	0.02 U	0.02 U	0.021 U	0.021 U	0.021 U
Endrin	--	0.04 U	0.04 U	0.042 U	0.041 U	0.043 U
Endrin ketone	5	0.04 U	0.04 U	0.042 U	0.041 U	0.043 U
Dieldrin	0.004	*0.04* U	*0.04* U	*0.042* U	*0.041* U	*0.043* U
4,4'-DDE	0.2	0.04 U	0.04 U	0.042 U	0.041 U	0.043 U
4,4'-DDD	0.3	0.04 U	0.04 U	0.042 U	0.041 U	0.043 U
4,4'-DDT	0.2	0.04 U	0.04 U	0.042 U	0.041 U	0.043 U
Endosulfan I	--	0.02 U	0.02 U	0.021 U	0.021 U	0.021 U
Endosulfan II	--	0.04 U	0.04 U	0.042 U	0.041 U	0.043 U
Endosulfan sulfate	--	0.04 U	0.04 U	0.042 U	0.041 U	0.043 U
Methoxychlor	35	0.2 U	0.2 U	0.212 U	0.206 U	0.213 U
Toxaphene	0.06	*0.2* U	*0.2* U	*0.212* U	*0.206* U	*0.213* U
trans-Chlordane	--	0.02 U	0.02 U	0.021 U	0.021 U	0.021 U
Chlordane	0.05	*0.2* U	*0.2* U	*0.212* U	*0.206* U	*0.213* U
TCL PCBs						
Aroclor 1016	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1221	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1232	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1242	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1248	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1254	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1260	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U

Notes:
1. All results in micrograms per liter (ug/l) unless otherwise noted.
2. All pesticides samples were analyzed by US EPA Method 8081 for TCL Pesticides.
3. All PCB samples were analyzed by US EPA Method 8082 for TCL PCBs.
4. U = Parameter detected below Reported Detection Limit (RDL).
5. Bolded and highlighted values indicate RDLs that are above NYS GA Ambient Water Standards and Guidance Values.
6. -- = Regulatory guidance value is not available.
7. Chlordane, as listed listed above, is listed in the so

Apex Companies, LLC

Table 4-9
One Commerce Park Site, Valhalla, NY
Groundwater Analytical Data - TCL SVOCs

TCL SVOCs	NY - GA Ambient Water Standards and Guidance Values (ug/l)	MW-1S (5.5-15.5') 4/22/2010	MW-1I (30-35') 4/22/2010	MW-2S (5-15') 4/23/2010	MW-2I (30-35') 4/23/2010	MW-2D (50-55') 4/23/2010
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	4.9 U	5 U
Bis(2-chloroethyl)ether	1	5 U	5 U	5 U	4.9 U	5 U
1,2-Dichlorobenzene	3	5 U	5 U	5 U	4.9 U	5 U
1,3-Dichlorobenzene	3	5 U	5 U	5 U	4.9 U	5 U
1,4-Dichlorobenzene	3	5 U	5 U	5 U	4.9 U	5 U
3,3'-Dichlorobenzidine	5	50 U	50 U	50 U	49 U	50 U
2,4-Dinitrotoluene	5	6 U	6 U	6 U	5.9 U	6 U
2,6-Dinitrotoluene	5	5 U	5 U	5 U	4.9 U	5 U
4-Chlorophenyl phenyl ether	--	5 U	5 U	5 U	4.9 U	5 U
4-Bromophenyl phenyl ether	--	5 U	5 U	5 U	4.9 U	5 U
Bis(2-chloroisopropyl)ether	5	5 U	5 U	5 U	4.9 U	5 U
Bis(2-chloroethoxy)methane	5	5 U	5 U	5 U	4.9 U	5 U
Hexachlorocyclopentadiene	5	30 U	30 U	30 U	29 U	30 U
Isophorone	50*	5 U	5 U	5 U	4.9 U	5 U
Nitrobenzene	0.4	5 U	5 U	5 U	4.9 U	5 U
NitrosoDiPhenylAmine(NDPA)/DPA	50*	15 U	15 U	15 U	15 U	15 U
n-Nitrosodi-n-propylamine	--	5 U	5 U	5 U	4.9 U	5 U
Bis(2-Ethylhexyl)phthalate	5	5 U	5 U	5 U	4.9 U	5 U
Butyl benzyl phthalate	50*	5 U	5 U	5 U	4.9 U	5 U
Di-n-butylphthalate	50	5 U	5 U	5 U	4.9 U	5 U
Di-n-octylphthalate	50*	5 U	5 U	5 U	4.9 U	5 U
Diethyl phthalate	50*	5 U	5 U	5 U	4.9 U	5 U
Dimethyl phthalate	50*	5 U	5 U	5 U	4.9 U	5 U
Biphenyl	--	5 U	5 U	5 U	4.9 U	5 U
4-Chloroaniline	5	5 U	5 U	5 U	4.9 U	5 U
2-Nitroaniline	5	5 U	5 U	5 U	4.9 U	5 U
3-Nitroaniline	5	5 U	5 U	5 U	4.9 U	5 U
4-Nitroaniline	5	7 U	7 U	7 U	6.8 U	7 U
Dibenzofuran	--	5 U	5 U	5 U	4.9 U	5 U
1,2,4,5-Tetrachlorobenzene	5	20 U	20 U	20 U	20 U	20 U
Acetophenone	--	20 U	20 U	20 U	20 U	20 U
2,4,6-Trichlorophenol	--	5 U	5 U	5 U	4.9 U	5 U
P-Chloro-M-Cresol	--	5 U	5 U	5 U	4.9 U	5 U
2-Chlorophenol	--	6 U	6 U	6 U	5.9 U	6 U
2,4-Dichlorophenol	1	10 U	10 U	10 U	9.8 U	10 U
2,4-Dimethylphenol	50*	10 U	10 U	10 U	9.8 U	10 U
2-Nitrophenol	--	20 U	20 U	20 U	20 U	20 U
4-Nitrophenol	--	10 U	10 U	10 U	9.8 U	10 U
2,4-Dinitrophenol	10*	30 U	30 U	30 U	29 U	30 U
4,6-Dinitro-o-cresol	--	20 U	20 U	20 U	20 U	20 U
Phenol	1	7 U	7 U	7 U	6.8 U	7 U
2-Methylphenol	--	6 U	6 U	6 U	5.9 U	6 U
3-Methylphenol/4-Methylphenol	--	6 U	6 U	6 U	5.9 U	6 U
2,4,5-Trichlorophenol	--	5 U	5 U	5 U	4.9 U	5 U
Benzoic Acid	--	50 U	50 U	- -	- -	- -
Benzyl Alcohol	--	10 U	10 U	10 U	9.8 U	10 U
Carbazole	--	5 U	5 U	5 U	4.9 U	5 U
Acenaphthene	20*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chloronaphthalene	10*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Fluoranthene	50*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobutadiene	0.5	0.5 U	0.5 U	0.5 U	0.49 U	0.5 U
Naphthalene	10*	0.31	0.2 U	0.2 U	0.39	0.24
Benzo(a)anthracene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(a)pyrene	ND	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(b)fluoranthene	0.002*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(k)fluoranthene	0.002*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chrysene	0.002*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Acenaphthylene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Anthracene	50*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(ghi)perylene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Fluorene	50*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Phenanthrene	50*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibenzo(a,h)anthracene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Indeno(1,2,3-cd)Pyrene	0.002*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pyrene	50*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Methylnaphthalene	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pentachlorophenol	1	0.8 U	0.8 U	0.8 U	0.78 U	0.8 U
Hexachlorobenzene	0.04	0.8 U	0.8 U	0.8 U	0.78 U	0.8 U
Hexachloroethane	5	0.8 U	0.8 U	0.8 U	0.78 U	0.8 U

Notes:
1. All results in micrograms per liter (ug/l) unless otherwise noted.
2. All SVOC samples were analyzed by US EPA Method 8270 for TCL SVOCs and 20 TICs.
3. U = Parameter detected below Reported Detection Limit (RDL).
4. Underlined and italicized values indicate RDLs that are above NYS GA Ambient Water Standards and Guidance Values.
5. -- = Regulatory guidance value is not available.
6. - = Analyte not detected

Apex Companies, LLC

Table 4-8
One Commerce Park Site, Valhalla, NY
Groundwater Analytical Data - TCL VOCs + Freon 113

TCL VOCs + Freon 113	NY - GA Ambient Water Standards and Guidance Values (ug/l)	MW-1S (5.5-15.5') 4/22/2010	MW-1I (30-35') 4/22/2010	MW-1D (50-55') 4/22/2010	MW-2S (5-15') 4/23/2010	MW-2I (30-35') 4/23/2010	MW-2D (50-55') 4/23/2010	MW-3S (5-15') 4/23/2010	MW-3I (30-35') 4/23/2010	MW-3D (45-50') 4/23/2010	P-1 (5-15') 4/23/2010	P-2 (5-15') 4/23/2010
Methylene chloride	5	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	190 U	30 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chloroform	7	190 U	30 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**8.2**	0.75 U	0.75 U
Carbon tetrachloride	5	120 U	20 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
1,2-Dichloropropane	1	440 U	70 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dibromochloromethane	50*	120 U	20 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
1,1,2-Trichloroethane	1	190 U	30 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Tetrachloroethene	5	120 U	20 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
Chlorobenzene	5	120 U	20 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
Trichlorofluoromethane	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	120 U	20 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
1,1,1-Trichloroethane	5	**290**	20 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
Bromodichloromethane	50*	120 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.4	120 U	20 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
cis-1,3-Dichloropropene	0.4	120 U	20 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
1,1-Dichloropropene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromoform	50*	500 U	80 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	5	120 U	20 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
Benzene	1	**200**	**46**	0.97	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	190 U	30 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Ethylbenzene	5	120 U	20 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
Chloromethane	–	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromomethane	5	250 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	250 U	**87**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	250 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	120 U	20 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
trans-1,2-Dichloroethene	5	190 U	30 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Trichloroethene	5	**9,600**	**700**	0.5 U	0.5 U	0.5 U	**25**	0.5 U	0.99	**10**	0.5 U	0.5 U
1,2-Dichlorobenzene	3	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl tert butyl ether	10*	250 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p/m-Xylene	5	250 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	250 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	**980**	**1,700**	0.5 U	0.5 U	0.5 U	**5.4**	0.5 U	4.1	0.5 U	0.5 U	0.5 U
Dibromomethane	5	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichloropropane	0.04	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	250 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	1,200 U	200 U	5 U	5 U	9.5	5 U	7.8	8.0	5 U	5 U	5 U
Carbon disulfide	–	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	50*	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	–	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	–	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50	1,200 U	200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2,2-Dichloropropane	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane / Ethylene Dibromide	0.0006	500 U	80 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichloropropane	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1,2-Tetrachloroethane	5	120 U	20 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
Bromobenzene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Butylbenzene	5	120 U	20 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
sec-Butylbenzene	5	120 U	20 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
tert-Butylbenzene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Chlorotoluene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p-Chlorotoluene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	150 U	24 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
Isopropylbenzene	5	120 U	20 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
p-Isopropyltoluene	5	120 U	20 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
Naphthalene	10	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Propylbenzene	5	120 U	20 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
1,2,3-Trichlorobenzene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3,5-Trimethylbenzene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5	2,500 U	400 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Diethylbenzene	–	500 U	80 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Ethyltoluene	–	500 U	80 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2,4,5-Tetramethylbenzene	–	500 U	80 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Ethyl ether	–	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,4-Dichloro-2-butene	5	620 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Notes:
1. All results in micrograms per liter (ug/l) unless otherwise noted.
2. All VOC samples were analyzed by US EPA Method 8260 for TCL VOCs an
3. U = Parameter detected below Reported Detection Limit (RDL).
4. Bolded values indicate NYS GA Ambient Water Standards and Guidance Values.
5. – = Regulatory Guidance Value is not available.

Apex Companies, LLC

Table 4-7
One Commerce Park Site, Valhalla, NY
Groundwater Analytical Data - TCL VOCs + Freon 113 and 10 TICs

TCL VOCs + Freon 113 and 10 TICs	NY - GA Ambient Water Standards and Guidance Values	GW-1			GW-2			GW-3			GW-4			GW-5	
		(14-18) 2/8/2010	(28-32) 2/8/2010	(48-50) 2/8/2010	(11-15) 2/8/2010	(24-28) 2/8/2010	(46-50) 2/8/2010	(14-18) 2/8/2010	(28-32) 2/8/2010	(46-50) 2/8/2010	(14-18) 2/8/2010	(28-32) 2/8/2010	(40-48) 2/8/2010	(12-16) 2/9/2010	(18-22) 2/9/2010
Methylene chloride	5	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	0.75 U	0.75 U	0.75 U	22	52	0.75 U	5	4	5.8	4.5	0.75 U	0.94	0.75 U	0.75 U
Chloroform	* 7	0.75 U	0.75 U	0.75 U	3.8 U	7.5 U	0.75 U	1.5 U	1.5 U	3 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Carbon tetrachloride	* 5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.8 U	1.8 U	1.8 U	8.8 U	18 U	1.8 U	3.5 U	3.5 U	7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dibromochloromethane	50*	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	0.75 U	0.75 U	0.75 U	3.8 U	7.5 U	0.75 U	1.5 U	1.5 U	3 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	* 5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	* 0.6	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	50*	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromoform	50*	2 U	2 U	2 U	10 U	20 U	2 U	4 U	4 U	8 U	2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	1	1.4	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	0.75 U	0.75 U	0.75 U	3.8 U	7.5 U	0.75 U	1.5 U	1.5 U	3 U	0.75 U	0.75 U	1.1	0.75 U	0.75 U
Ethylbenzene	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	–	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromomethane	5	1 U	1 U	1 U	5 U	10 U	1 U	2 U	2 U	4 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	150	360	1 U	2 U	2 U	4 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	5 U	10 U	1 U	2 U	2 U	4 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	5	0.75 U	0.75 U	0.75 U	3.8 U	7.5 U	0.75 U	1.5 U	1.5 U	3 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Trichloroethene	5	1.2	10	8.5	13	10	31	21	83	170	27	1	1.4	0.5 U	0.52
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl tert butyl ether	10*	1 U	1 U	1 U	5 U	10 U	1 U	2 U	2 U	4 U	1 U	1 U	1 U	1 U	1 U
p/m-Xylene	5	1 U	1 U	1 U	5 U	10 U	1 U	2 U	2 U	4 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	5 U	10 U	1 U	2 U	2 U	4 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	0.83	4.5	4.8	220	530	2.8	66	50	95	1.8	0.5 U	0.81	0.5 U	0.5 U
Dibromomethane	5	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichloropropane	0.04	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	1 U	1 U	1 U	5 U	10 U	1 U	2 U	2 U	4 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	5 U	5 U	7.1	25 U	50 U	5 U	10 U	10 U	20 U	8.8	5 U	12	5 U	5 U
Carbon disulfide	–	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	50*	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	–	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	–	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50	5 U	5 U	5 U	25 U	50 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2,2-Dichloropropane	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane / Ethylene Dibromide	0.0006	2 U	2 U	2 U	10 U	20 U	2 U	4 U	4 U	8 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichloropropane	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Butylbenzene	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	0.6 U	0.6 U	0.6 U	3 U	6 U	0.6 U	1.2 U	1.2 U	2.4 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
Isopropylbenzene	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	10	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Propylbenzene	5	0.5 U	0.5 U	0.5 U	2.5 U	5 U	0.5 U	1 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3,5-Trimethylbenzene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Fr. 113)	5	10 U	10 U	10 U	50 U	100 U	10 U	20 U	20 U	88	10 U	10 U	10 U	10 U	10 U
1,4-Diethylbenzene	–	2 U	2 U	2 U	10 U	20 U	2 U	4 U	4 U	8 U	2 U	2 U	2 U	2 U	2 U
4-Ethyltoluene	–	2 U	2 U	2 U	10 U	20 U	2 U	4 U	4 U	8 U	2 U	2 U	2 U	2 U	2 U
1,2,4,5-Tetramethylbenzene	–	2 U	2 U	2 U	10 U	20 U	2 U	4 U	4 U	8 U	2 U	2 U	2 U	2 U	2 U
Ethyl ether	–	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,4-Dichloro-2-butene	5	2.5 U	2.5 U	2.5 U	12 U	25 U	2.5 U	5 U	5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
VOC TICs															
Butane, 2-methyl-	–	-	-	-	-	-	-	-	-	-	-	-	1.2 J	-	-
Ethane, 1,2-dichloro-1,1,2-	–	-	-	-	-	-	-	-	4.6 J	15 J	4 J	-	-	-	-
Ethene, chlorotrifluoro-	–	-	-	-	-	-	-	-	2.8 J	8 J	-	-	-	-	-
Propene	–	-	-	6.9 J	-	-	-	-	-	-	-	1.4 J	21 J	2.7 J	6.8 J
Unknown	–	-	-	-	7.7 J	-	2 J	-	-	-	-	-	-	-	-
Unknown	–	16 J	3.2 J	-	-	-	-	-	-	-	-	-	-	-	-
Unknown	–	7.1 J	20 J	-	-	-	-	-	-	-	-	-	-	-	-
Unknown	–	2 J	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane	–	-	-	-	-	-	-	-	-	-	-	-	1.7 J	-	-
Unknown C3H6	–	-	-	-	-	-	-	-	-	-	3.9 J	-	-	-	-
Unknown C4H8	–	-	-	3.1 J	-	-	-	-	-	-	1.6 J	-	-	-	-
Unknown C4H8	–	-	-	-	-	-	-	-	-	-	-	-	13 J	-	-
Unknown C4H8	–	-	-	-	-	-	-	-	-	-	-	-	1.1 J	-	-
Unknown C4H8	–	-	-	-	-	-	-	-	-	-	-	-	2 J	-	-
Unknown C5H10	–	-	-	-	-	-	-	-	-	-	-	-	4.8 J	-	-
Unknown C5H10	–	-	-	-	-	-	-	-	-	-	-	-	2.4 J	-	-
Unknown C5H10	–	-	-	-	-	-	-	-	-	-	-	-	1.3 J	-	-
Unknown C6H12	–	-	-	-	-	-	-	-	-	-	-	-	2 J	-	-

Notes:
1. All results in micrograms per liter (ug/l) unless otherwise noted.
2. All VOC samples were analyzed by US EPA Method 8260B for TCL VOCs, Freon 113 and 10 TICs.
3. U = Parameter detected below Reported Detection Limit (RDL).
4. Bolded values indicate TOGS Class GA Ambient Water Quality Standards exceedences.
5. Underlined and italicized values indicate that the analyte concentration is above TOGS Class GA Standards but below the RDL.
6. – = Regulatory guidance value is not available.
7. * - Represents a Class GA Guidance Value, all other values are Class GA Standards.

Apex Companies, LLC

Table 4-6
One Commerce Park Site, Valhalla, NY
Soil Analytical Data - TAL Metals

TAL Metals	NY-Unrestricted Use Soil Cleanup Objective	NY-TAGM 4046 RSCO	NY-TAGM 4046 Eastern USA Background	NY-Restricted Use Commercial Criteria	NY-Restricted Use Industrial Criteria	SB-2 (0-3.5) 2/8/2010	SB-2 (5-9) 2/8/2010	SB-4 (0-3) 2/8/2010	SB-5 (5-9) 2/8/2010	SB-6 (0-4) 2/9/2010	SB-7 (5-7) 2/9/2010	SB-8 (0-4) 2/9/2010
Aluminum, Total	--	SB	33,000	--	--	22,000	29,000	15,000 J	17,000	26,000 J	18,000	12,000
Antimony, Total	--	SB	--	--	--	2.2 U	2.9 U	2.0 U	2.2 U	2.3 U	2.2 U	2.1 U
Arsenic, Total	13	7.5 or SB	3-12	16	16	1.8	1.6	1.9	3.0	2.4	2.5	12
Barium, Total	350	300 or SB	15-600	400	10,000	190	210	100	100	270	140	140
Beryllium, Total	7.2	0.16 or SB	0-1.75	590	2,700	2.4	2.2	1.5	1.4	2.4	2.3	1.3
Cadmium, Total	2.5	10	0.1-1	9.3	60	0.43 U	0.58 U	0.41 U	0.45 U	0.46 U	0.44 U	1.5
Calcium, Total	--	SB	130-35,000	--	--	1,600	1,600	6,200 J	910	1,400	3,700	1,500
Chromium, Total	30	50	1.5-40	1,500	6,800	36	37	27	24	44	28	24
Cobalt, Total	--	30 or SB	2.5-60	--	--	14	8.7	10	11	22	13	8.5
Copper, Total	50	25 or SB	1-50	270	10,000	34	17	52	16	29	46	36
Iron, Total	--	2,000 or SB	2,000-550,000	--	--	29,000	22,000	24,000 J	19,000	45,000 J	29,000	19,000
Lead, Total	63	400	200-500	1,000	3,900	39	16	22	20	24	29	180
Magnesium, Total	--	SB	100-5,000	--	--	9,500	6,400	6,900 J	5,000	9,100 J	7,900	5,200
Manganese, Total	1,600	SB	50-5,000	10,000	10,000	280	220	550 J	220	760 J	340	340
Mercury, Total	0.18	0.1	0.001-0.2	2.8	5.7	0.08 U	0.1 U	0.09 U	0.09 U	0.08 J	0.09 U	0.09 U
Nickel, Total	30	13 or SB	0.5-25	310	10,000	31	30	22	19	44	24	21
Potassium, Total	--	SB	8,500-43,000	--	--	8,000	2,400	6,100 J	1,400	10,000 J	5,000	3,100
Selenium, Total	3.9	2 or SB	0.1-3.9	1,500	6,800	0.87 U	1.2	0.81 U	0.90 U	0.92 U	0.87 U	0.86 U
Silver, Total	2	SB	--	1,500	6,800	0.47	0.58 U	0.42	0.45 U	0.62	0.44 U	0.43 U
Sodium, Total	--	SB	6,000-8,000	--	--	1,000	1,200	420 J	90 U	920	870	860
Thallium, Total	--	SB	--	--	--	0.87 U	1.2 U	0.81 U	0.9 U	0.92 U	1.7 U	1.7 U
Vanadium, Total	--	150 or SB	1-300	--	--	63	46	41	36	72	52	34
Zinc, Total	109	20 or SB	9-50	10,000	10,000	70	79	50	63	100	65	66

Notes:
1. All results in milligrams per kilogram (mg/kg) unless otherwise noted.
2. All metals samples were analyzed by US EPA Method(s) 6010, 6020, and 7471 for TAL Metals.
3. U = Parameter detected below Reported Detection Limit (RDL).
4. Bolded values indicates that analyte was at a concentration is exceedance of its NYSDEC Resticted-use Commercial SCO.
5. -- = Regulatory guidance value is not available.

Apex Companies, LLC

Table 4-5
One Commerce Park Site, Valhalla, NY
Soil Anallytical Data - TCL Pesticides and TCL PCBs

TCL Pesticides	NY-Unrestricted Use Soil Cleanup Objective	NY-TAGM 4046 Recommended Soil Cleanup Objective	NY-Restricted Use Commercial Criteria	NY-Restricted Use Industrial Criteria	SB-2 (0-3.5) 2/8/2010	SB-2 (5-9) 2/8/2010	SB-4 (0-3) 2/8/2010	SB-5 (5-9) 2/8/2010	SB-6 (0-4) 2/9/2010	SB-7 (5-7) 2/9/2010	SB-8 (0-4) 2/9/2010
Delta-BHC	0.04	0.3	500	1,000	0.0116 U	0.0152 U	0.0111 U	0.012 U	0.0115 U	0.0114 U	0.0111 U
Lindane	0.1	0.06	9.2	23	0.00386 U	0.00506 U	0.00369 U	0.00401 U	0.00383 U	0.00381 U	0.00369 U
Alpha-BHC	0.02	0.11	3.4	6.8	0.00386 U	0.00506 U	0.00369 U	0.00401 U	0.00383 U	0.00381 U	0.00369 U
Beta-BHC	0.036	0.2	3	14	0.0116 U	0.0152 U	0.0111 U	0.012 U	0.0115 U	0.0114 U	0.0111 U
Heptachlor	0.042	0.10	15	29	0.00464 U	0.00607 U	0.00443 U	0.00482 U	0.00459 U	0.00457 U	0.00443 U
Aldrin	0.005	0.041	0.68	1.4	0.0116 U	0.0152 U	0.0111 U	0.012 U	0.0115 U	0.0114 U	0.0111 U
Heptachlor epoxide	--	0.02	--	--	0.0174 U	0.0228 U	0.0166 U	0.0181 U	0.0172 U	0.0171 U	0.0166 U
Endrin	0.014	0.10	89	410	0.00386 U	0.00506 U	0.00369 U	0.00401 U	0.00383 U	0.00381 U	0.00369 U
Endrin ketone	--	--	--	--	0.0116 U	0.0152 U	0.0111 U	0.012 U	0.0115 U	0.0114 U	0.0111 U
Dieldrin	0.005	0.044	1.4	2.8	0.00579 U	0.00759 U	0.00553 U	0.00602 U	0.00574 U	0.00571 U	0.00553 U
4,4'-DDE	0.0033	2.1	62	120	0.0174 U	0.0228 U	0.0166 U	0.0181 U	0.0172 U	0.0171 U	0.0166 U
4,4'-DDD	0.0033	2.9	92	180	0.0116 U	0.0152 U	0.0111 U	0.012 U	0.0115 U	0.0114 U	0.0111 U
4,4'-DDT	0.0033	2.1	47	94	0.0174 U	0.0228 U	0.0166 U	0.0181 U	0.0172 U	0.0171 U	0.0166 U
Endosulfan I	2.4	0.9	200	920	0.0116 U	0.0152 U	0.0111 U	0.012 U	0.0115 U	0.0114 U	0.0111 U
Endosulfan II	2.4	0.9	200	920	0.0174 U	0.0228 U	0.0166 U	0.0181 U	0.0172 U	0.0171 U	0.0166 U
Endosulfan sulfate	2.4	1.0	200	920	0.00386 U	0.00506 U	0.00369 U	0.00401 U	0.00383 U	0.00381 U	0.00369 U
Methoxychlor	--	--	--	--	0.0174 U	0.0228 U	0.0166 U	0.0181 U	0.0172 U	0.0171 U	0.0166 U
trans-Chlordane	--	--	--	--	0.0116 U	0.0152 U	0.0111 U	0.012 U	0.0115 U	0.0114 U	0.0111 U
Chlordane	0.094	0.54	24	47	0.0753 U	0.0987 U	0.0719 U	0.0783 U	0.0746 U	0.0742 U	0.0719 U
TCL PCBs											
Aroclor 1016	0.1	1.0 (sfc.) / 10 (sub)	1	25	0.0358 U	0.0492 U	0.0363 U	0.0444 U	0.0373 U	0.038 U	0.0371 U
Aroclor 1221	0.1	1	1	25	0.0358 U	0.0492 U	0.0363 U	0.0444 U	0.0373 U	0.038 U	0.0371 U
Aroclor 1232	0.1	1	1	25	0.0358 U	0.0492 U	0.0363 U	0.0444 U	0.0373 U	0.038 U	0.0371 U
Aroclor 1242	0.1	1	1	25	0.0358 U	0.0492 U	0.0363 U	0.0444 U	0.0373 U	0.038 U	0.0371 U
Aroclor 1248	0.1	1	1	25	0.0358 U	0.0492 U	0.0363 U	0.0444 U	0.0373 U	0.038 U	0.0371 U
Aroclor 1254	0.1	1	1	25	0.0358 U	0.0492 U	0.0363 U	0.0444 U	0.0373 U	0.038 U	0.0371 U
Aroclor 1260	0.1	1	1	25	0.0358 U	0.0492 U	0.0363 U	0.0444 U	0.0373 U	0.038 U	0.0371 U

Notes:
1. All results in milligrams per kilogram (mg/kg) unless otherwise noted.
2. All pesticides samples were analyzed by US EPA Method 8081 for TCL Pesticides.
3. All PCB samples were analyzed by US EPA Method 8082 for TCL PCBs.
4. U = Parameter detected below Reported Detection Limit (RDL).
5. Bolded values indicates that analyte was at a concentration is exceedance of its NYSDEC Resticted-use Commercial SCO.
6. -- = Regulatory guidance value is not available.
7. Chlordane, as listed listed above, is listed in the soil cleanup objective guidance as Chlordane (alpha).

Apex Companies, LLC

Table 4-4
One Commerce Park Site, Valhalla, NY
Soil Analytical Data - TCL SVOCs + TICs

TCL SVOCs + 20 TICs	NY-Unrestricted Use Soil Cleanup Objective	NY-TAGM 4046 Recommended Soil Cleanup Objective	NY-Restricted Use Commercial Criteria	NY-Restricted Use Industrial Criteria	SB-2 (0-3.5) 2/8/2010	SB-2 (5-9) 2/8/2010	SB-4 (0-3) 2/8/2010	SB-5 (5-9) 2/8/2010	SB-6 (0-4) 2/9/2010	SB-7 (5-7) 2/9/2010	SB-8 (0-4) 2/9/2010
1,2,4-Trichlorobenzene	--	3.4	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Bis(2-chloroethyl)ether	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
1,2-Dichlorobenzene	1.1	7.9	500	1,000	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
1,3-Dichlorobenzene	2.4	1.6	280	560	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
1,4-Dichlorobenzene	1.8	8.5	130	250	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
3,3-Dichlorobenzidine	--	--	--	--	0.79 U	1.0 U	0.71 U	0.84 U	0.74 U	0.74 U	0.73 U
2,4-Dinitrotoluene	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
2,6-Dinitrotoluene	--	1.0	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
4-Chlorophenyl phenyl ether	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
4-Bromophenyl phenyl ether	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Bis(2-chloroisopropyl)ether	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Bis(2-chloroethoxy)methane	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Hexachlorocyclopentadiene	--	--	--	--	0.79 U	1.0 U	0.71 U	0.84 U	0.74 U	0.74 U	0.73 U
Isophorone	--	4.40	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Nitrobenzene	--	0.20 or MDL	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
NitrosoDiPhenylAmine(NDPA)/DPA	--	--	--	--	1.2 U	1.6 U	1.1 U	1.3 U	1.1 U	1.1 U	1.1 U
n-Nitrosodi-n-propylamine	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Bis(2-Ethylhexyl)phthalate	--	50.0	--	--	0.79 U	1.0 U	0.71 U	0.84 U	0.74 U	0.74 U	0.73 U
Butyl benzyl phthalate	--	50.0	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Di-n-butylphthalate	--	8.1	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Di-n-octylphthalate	--	50.0	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Diethyl phthalate	--	7.1	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Dimethyl phthalate	--	2.0	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Biphenyl	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
4-Chloroaniline	--	0.22 or MDL	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
2-Nitroaniline	--	0.43 or MDL	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
3-Nitroaniline	--	0.5 or MDL	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
4-Nitroaniline	--	--	--	--	0.55 U	0.72 U	0.5 U	0.59 U	0.52 U	0.52 U	0.51 U
Dibenzofuran	7	6.2	350	1,000	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
1,2,4,5-Tetrachlorobenzene	--	--	--	--	1.6 U	2.1 U	1.4 U	1.7 U	1.5 U	1.5 U	1.5 U
Acetophenone	--	--	--	--	1.6 U	2.1 U	1.4 U	1.7 U	1.5 U	1.5 U	1.5 U
2,4,6-Trichlorophenol	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
P-Chloro-M-Cresol	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
2-Chlorophenol	--	0.8	--	--	0.47 U	0.62 U	0.43 U	0.5 U	0.44 U	0.45 U	0.44 U
2,4-Dichlorophenol	--	0.4	--	--	0.79 U	1.0 U	0.71 U	0.84 U	0.74 U	0.74 U	0.73 U
2,4-Dimethylphenol	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
2-Nitrophenol	--	0.330 or MDL	--	--	1.6 U	2.1 U	1.4 U	1.7 U	1.5 U	1.5 U	1.5 U
4-Nitrophenol	--	0.100 or or MDL	--	--	0.79 U	1.0 U	0.71 U	0.84 U	0.74 U	0.74 U	0.73 U
2,4-Dinitrophenol	--	0.200 or MDL	--	--	1.6 U	2.1 U	1.4 U	1.7 U	1.5 U	1.5 U	1.5 U
4,6-Dinitro-o-cresol	--	--	--	--	1.6 U	2.1 U	1.4 U	1.7 U	1.5 U	1.5 U	1.5 U
Phenol	0.33	0.03 or MDL	500	1,000	0.55 U	0.72 U	0.5 U	0.59 U	0.52 U	0.52 U	0.51 U
2-Methylphenol	0.33	0.100 or MDL	500	1,000	0.47 U	0.62 U	0.43 U	0.5 U	0.44 U	0.45 U	0.44 U
3-Methylphenol/4-Methylphenol	0.33	0.9	500	1,000	0.47 U	0.62 U	0.43 U	0.5 U	0.44 U	0.45 U	0.44 U
2,4,5-Trichlorophenol	--	0.1	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Benzoic Acid	--	2.7	--	--	3.9 U	5.2 U	3.6 U	4.2 U	3.7 U	3.7 U	3.7 U
Benzyl Alcohol	--	--	--	--	0.79 U	1.0 U	0.71 U	0.84 U	0.74 U	0.74 U	0.73 U
Carbazole	--	--	--	--	0.39 U	0.52 U	0.36 U	0.42 U	0.37 U	0.37 U	0.37 U
Acenaphthene	20	50.0	500	1,000	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
2-Chloronaphthalene	--	--	--	--	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Fluoranthene	100	50.0	500	1,000	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Hexachlorobutadiene	--	--	--	--	0.039 U	0.052 U	0.036 U	0.042 U	0.037 U	0.37 U	0.037 U
Naphthalene	12	13.00	500	1,000	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Benzo(a)anthracene	1	0.224 or MDL	5.6	11	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Benzo(a)pyrene	1	0.061 or MDL	1	1.1	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Benzo(b)fluoranthene	1	0.061 or or MDL	5.6	11	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Benzo(k)fluoranthene	0.8	0.61 or MDL	56	110	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Chrysene	1	0.4	56	110	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Acenaphthylene	100	41.0	500	1,000	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Anthracene	100	50.0	500	1,000	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Benzo(ghi)perylene	100	50.0	500	1,000	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Fluorene	30	50.0	500	1,000	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Phenanthrene	100	50.0	500	1,000	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Dibenzo(a,h)anthracene	0.33	0.0143 or MDL	0.56	1.1	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Indeno(1,2,3-cd)Pyrene	0.5	3.2	5.6	11	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Pyrene	100	50.0	500	1,000	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
2-Methylnaphthalene	--	36.4	--	--	0.016 U	0.021 U	0.014 U	0.017 U	0.015 U	0.15 U	0.015 U
Pentachlorophenol	0.8	1.0 or MDL	6.7	55	0.063 U	0.083 U	0.057 U	0.067 U	0.059 U	0.6 U	0.059 U
Hexachlorobenzene	0.33	0.41	6	12	0.063 U	0.083 U	0.057 U	0.067 U	0.059 U	0.6 U	0.059 U
Hexachloroethane	--	--	--	--	0.063 U	0.083 U	0.057 U	0.067 U	0.059 U	0.6 U	0.059 U
SVOC TICs											
Unknown Organic Acid	--	--	--	--	-	0.59 J	-	0.35 J	-	-	-
Unknown	--	--	--	--	0.32 J	0.46 J	0.34 J	-	-	1.8 J	-
Unknown	--	--	--	--	0.38 J	0.51 J	0.31 J	-	-	1.5 J	-
Unknown	--	--	--	--	-	0.68 J	-	-	-	-	-

Notes:
1. All results in milligrams per kilogram (mg/kg) unless otherwise noted.
2. All SVOC samples were analyzed by US EPA Method 8270 for TCL SVOCs and 20 TICs.
3. U = Parameter detected below Reported Detection Limit (RDL).
4. Bolded values indicates that analyte was at a concentration is exceedance of its NYSDEC Resticted-use Commercial SCO.
5. -- = Regulatory guidance value is not available.

Apex Companies, LLC

Table 4-3
One Commerce Park Site, Valhalla, NY
Shallow Soil Analytical Data - TCL VOCs + Freon 113 and 10 TICS

TCL VOCs + Freon 113 and 10 TICs	NY-Unrestricted Use Soil Cleanup Objective	NY-TAGM 4046 Recommended Soil Cleanup Objective	NY-Restricted Use Commercial Criteria	NY-Restricted Use Industrial Criteria	SS-1 (1.0') 4/23/2010	SS-2 (1.0') 4/23/2010	SS-3 (1.0') 4/23/2010	SS-4 (1.0') 4/23/2010	SS-5 (1.0') 4/23/2010	SS-6 (1.0') 4/23/2010	SS-7 (1.0') 4/23/2010	SS-8 (1.0') 4/23/2010	SS-9 (1.0') 4/23/2010
Methylene chloride	0.05	0.1	500	1,000	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
1,1-Dichloroethane	0.27	0.2	240	480	0.0044 U	0.0043 U	0.0046 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0039 U	0.004 U
Chloroform	0.37	0.3	350	700	0.0044 U	0.0043 U	0.0046 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0039 U	0.004 U
Carbon tetrachloride	0.76	0.6	22	44	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
1,2-Dichloropropane	--	--	--	--	0.01 U	0.01 U	0.011 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0091 U	0.0093 U
Dibromochloromethane	--	--	--	--	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
1,1,2-Trichloroethane	--	--	--	--	0.0044 U	0.0043 U	0.0046 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0039 U	0.004 U
Tetrachloroethene	1.3	1.4	150	300	0.0029 U	0.0037	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.003
Chlorobenzene	1.1	1.7	500	1,000	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
Trichlorofluoromethane	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,2-Dichloroethane	0.02	0.1	30	60	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
1,1,1-Trichloroethane	0.68	0.8	500	1,000	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.011	0.0082
Bromodichloromethane	--	--	--	--	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
trans-1,3-Dichloropropene	--	--	--	--	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
cis-1,3-Dichloropropene	--	--	--	--	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
1,1-Dichloropropene	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
Bromoform	--	--	--	--	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.01 U	0.011 U
1,1,2,2-Tetrachloroethane	--	0.6	--	--	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
Benzene	0.06	0.06 or MDL	44	89	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
Toluene	0.7	1.5	500	1,000	0.0044 U	0.0043 U	0.0046 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0039 U	0.004 U
Ethylbenzene	1	5.5	390	780	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
Chloromethane	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
Bromomethane	--	--	--	--	0.0058 U	0.0057 U	0.0061 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0052 U	0.0053 U
Vinyl chloride	0.02	0.2	13	27	0.0058 U	0.0057 U	0.0061 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0052 U	0.0053 U
Chloroethane	--	1.9	--	--	0.0058 U	0.0057 U	0.0061 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0052 U	0.0053 U
1,1-Dichloroethene	0.33	0.4	500	1,000	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
trans-1,2-Dichloroethene	0.19	0.3	500	1,000	0.0044 U	0.0043 U	0.0046 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0039 U	0.004 U
Trichloroethene	0.47	0.7	200	400	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.016	0.023	0.057	0.025
1,2-Dichlorobenzene	1.1	7.9	500	1,000	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,3-Dichlorobenzene	2.4	1.6	280	560	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,4-Dichlorobenzene	1.8	8.5	130	250	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
Methyl tert butyl ether	0.93	0.12	500	1,000	0.0058 U	0.0057 U	0.0061 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0052 U	0.0053 U
p/m-Xylene	0.26	0.8 / 1.2	500	1,000	0.0058 U	0.0057 U	0.0061 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0052 U	0.0053 U
o-Xylene	0.26	0.6	500	1,000	0.0058 U	0.0057 U	0.0061 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0052 U	0.0053 U
cis-1,2-Dichloroethene	0.25	0.25	500	1,000	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0035	0.0027 U	0.0044	0.0026 U
Dibromomethane	--	--	--	--	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
Styrene	--	--	--	--	0.0058 U	0.0057 U	0.0061 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0052 U	0.0053 U
Dichlorodifluoromethane	--	--	--	--	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
Acetone	0.05	0.2	500	1,000	0.1 U	0.1 U	0.11 U	0.097 U	0.097 U	0.097 U	0.097 U	0.094 U	0.096 U
Carbon disulfide	--	2.7	--	--	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
2-Butanone (MEK)	0.12	0.3	500	1,000	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
Vinyl acetate	--	--	--	--	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
4-Methyl-2-pentanone	--	1	--	--	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
1,2,3-Trichloropropane	--	0.4	--	--	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
2-Hexanone	--	--	--	--	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
Bromochloromethane	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
2,2-Dichloropropane	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,2-Dibromoethane	--	--	--	--	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.01 U	0.011 U
1,3-Dichloropropane	--	0.3	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,1,1,2-Tetrachloroethane	--	0.6	--	--	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
Bromobenzene	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
n-Butylbenzene	12	10	500	1,000	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
sec-Butylbenzene	11	10	500	1,000	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
tert-Butylbenzene	5.9	10	500	1,000	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
o-Chlorotoluene	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
p-Chlorotoluene	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,2-Dibromo-3-chloropropane	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
Hexachlorobutadiene	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
Isopropylbenzene	--	2.3	--	--	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
p-Isopropyltoluene	--	10	--	--	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
Naphthalene	12	13.00	500	1,000	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
Acrylonitrile	--	--	--	--	0.029 U	0.029 U	0.03 U	0.027 U	0.027 U	0.027 U	0.027 U	0.026 U	0.026 U
n-Propylbenzene	3.9	3.7	500	1,000	0.0029 U	0.0029 U	0.003 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0026 U	0.0026 U
1,2,3-Trichlorobenzene	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,2,4-Trichlorobenzene	--	3.4	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,3,5-Trimethylbenzene	8.4	3.3	190	380	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,2,4-Trimethylbenzene	3.6	10	190	380	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Fr. 113)	--	6	--	--	0.058 U	0.057 U	0.061 U	0.054 U	0.054 U	0.054 U	0.054 U	0.052 U	0.053 U
1,4-Diethylbenzene	--	--	--	--	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.01 U	0.011 U
4-Ethyltoluene	--	--	--	--	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.01 U	0.011 U
1,2,4,5-Tetramethylbenzene	--	--	--	--	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.01 U	0.011 U
Ethyl ether	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
trans-1,4-Dichloro-2-butene	--	--	--	--	0.014 U	0.014 U	0.015 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
VOC TICs													
Propane	--	--	--	--	-	0.0059	0.0083	-	0.0062	-	0.0076	-	-
Unknown	--	--	--	--	-	-	0.0088	-	0.0075	0.0091	0.0091	0.012	0.0088
Unknown	--	--	--	--	-	-	0.0088	-	0.0075	0.0091	0.0091	0.012	0.0088

Notes:
1. All results in milligrams per kilogram (mg/kg) unless otherwise noted.
2. All VOC samples were analyzed by US EPA Method 8260 for TCL VOCs and Freon 113.
3. U = Parameter detected below Reported Detection Limit (RDL).
4. Bolded values indicates that analyte was at a concentration is exceedance of its NYSDEC Resticted-use Commercial SCO.
5. -- = Regulatory Guidance Value is not available.
6. - = TIC not present in sample

Apex Companies, LLC

Table 4-2
One Commerce Park Site, Valhalla, NY
Soil Analytical Data - TCL VOCs + Freon 113 and 10 TICS

TCL VOCs + Freon 113 and 10 TICs	NY-Unrestricted Use Soil Cleanup Objective	NY-TAGM 4046 Recommended Soil Cleanup Objective	NY-Restricted Use Commercial Criteria	NY-Restricted Use Industrial Criteria	SB-1 (0-3) 2/8/2010	SB-1 (5-9) 2/9/2010	SB-2 (0-3.5) 2/8/2010	SB-2 (5-9) 2/8/2010	SB-3 (0-4) 2/8/2010	SB-3 (5-9) 2/8/2010	SB-4 (0-3) 2/8/2010	SB-4 (5-9) 2/9/2010	SB-5 (0-3.5) 2/8/2010	SB-5 (5-9) 2/8/2010	SB-6 (0-4) 2/9/2010	SB-6 (5-7.5) 2/9/2010	SB-7 (0-3.5) 2/9/2010	SB-7 (5-7) 2/9/2010	SB-8 (0-4) 2/9/2010	SB-8 (5-6) 2/9/2010
Methylene chloride	0.05	0.1	500	1,000	0.028 U	0.03 U	0.028 U	0.038 U	0.029 U	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
1,1-Dichloroethane	0.27	0.2	240	480	0.0043 U	0.0045 U	0.0043 U	0.0057 U	0.0044 U	0.0051 U	0.0042 U	0.0044 U	0.0041 U	0.0047 U	0.0043 U	0.0044 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U
Chloroform	0.37	0.3	350	700	0.0043 U	0.0045 U	0.0043 U	0.0057 U	0.0044 U	0.0051 U	0.0042 U	0.0044 U	0.0041 U	0.0047 U	0.0043 U	0.0044 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U
Carbon tetrachloride	0.76	0.6	22	44	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
1,2-Dichloropropane	–	–	–	–	0.0099 U	0.01 U	0.0099 U	0.013 U	0.01 U	0.012 U	0.0097 U	0.01 U	0.0095 U	0.011 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Dibromochloromethane	–	–	–	–	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
1,1,2-Trichloroethane	–	–	–	–	0.0043 U	0.0045 U	0.0043 U	0.0057 U	0.0044 U	0.0051 U	0.0042 U	0.0044 U	0.0041 U	0.0047 U	0.0043 U	0.0044 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U
Tetrachloroethene	1.3	1.4	150	300	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
Chlorobenzene	1.1	1.7	500	1,000	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
Trichlorofluoromethane	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-Dichloroethane	0.02	0.1	30	60	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
1,1,1-Trichloroethane	0.68	0.8	500	1,000	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
Bromodichloromethane	–	–	–	–	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
trans-1,3-Dichloropropene	–	–	–	–	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
cis-1,3-Dichloropropene	–	–	–	–	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
1,1-Dichloropropene	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
Bromoform	–	–	–	–	0.011 U	0.012 U	0.011 U	0.015 U	0.012 U	0.014 U	0.011 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U
1,1,2,2-Tetrachloroethane	–	0.6	–	–	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
Benzene	0.06	0.06 or MDL	44	89	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
Toluene	0.7	1.5	500	1,000	0.0043 U	0.0045 U	0.0043 U	0.0057 U	0.0044 U	0.0051 U	0.0042 U	0.0044 U	0.0041 U	0.0047 U	0.0043 U	0.0044 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U
Ethylbenzene	1	5.5	390	780	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
Chloromethane	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
Bromomethane	–	–	–	–	0.0057 U	0.006 U	0.0057 U	0.0076 U	0.0059 U	0.0068 U	0.0056 U	0.0059 U	0.0054 U	0.0063 U	0.0057 U	0.0059 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
Vinyl chloride	0.02	0.2	13	27	0.0057 U	0.006 U	0.0057 U	0.0076 U	0.0059 U	0.0068 U	0.0056 U	0.0059 U	0.0054 U	0.0063 U	0.0057 U	0.0059 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
Chloroethane	–	1.9	–	–	0.0057 U	0.006 U	0.0057 U	0.0076 U	0.0059 U	0.0068 U	0.0056 U	0.0059 U	0.0054 U	0.0063 U	0.0057 U	0.0059 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
1,1-Dichloroethene	0.33	0.4	500	1,000	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
trans-1,2-Dichloroethene	0.19	0.3	500	1,000	0.0043 U	0.0045 U	0.0043 U	0.0057 U	0.0044 U	0.0051 U	0.0042 U	0.0044 U	0.0041 U	0.0047 U	0.0043 U	0.0044 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U
Trichloroethene	0.47	0.7	200	400	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0033	0.0056	0.0029 U	0.0029 U	0.0028 U	0.0028 U
1,2-Dichlorobenzene	1.1	7.9	500	1,000	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,3-Dichlorobenzene	2.4	1.6	280	560	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,4-Dichlorobenzene	1.8	8.5	130	250	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
Methyl tert butyl ether	0.93	0.12	500	1,000	0.0057 U	0.006 U	0.0057 U	0.0076 U	0.0059 U	0.0068 U	0.0056 U	0.0059 U	0.0054 U	0.0063 U	0.0057 U	0.0059 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
p/m-Xylene	0.26	0.8 / 1.2	500	1,000	0.0057 U	0.006 U	0.0057 U	0.0076 U	0.0059 U	0.0068 U	0.0056 U	0.0059 U	0.0054 U	0.0063 U	0.0057 U	0.0059 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
o-Xylene	0.26	0.6	500	1,000	0.0057 U	0.006 U	0.0057 U	0.0076 U	0.0059 U	0.0068 U	0.0056 U	0.0059 U	0.0054 U	0.0063 U	0.0057 U	0.0059 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
cis-1,2-Dichloroethene	0.25	0.25	500	1,000	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
Dibromomethane	–	–	–	–	0.028 U	0.03 U	0.028 U	0.038 U	0.029 U	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Styrene	–	–	–	–	0.0057 U	0.006 U	0.0057 U	0.0076 U	0.0059 U	0.0068 U	0.0056 U	0.0059 U	0.0054 U	0.0063 U	0.0057 U	0.0059 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
Dichlorodifluoromethane	–	–	–	–	0.028 U	0.03 U	0.028 U	0.038 U	0.029 U	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Acetone	0.05	0.2	500	1,000	0.028 U	0.03 U	0.046	0.11	0.18	0.048	0.028 U	0.029 U	0.027 U	0.12	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Carbon disulfide	–	2.7	–	–	0.028 U	0.03 U	0.028 U	0.038 U	0.029 U	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
2-Butanone (MEK)	0.12	0.3	500	1,000	0.028 U	0.03 U	0.028 U	0.038 U	0.039	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Vinyl acetate	–	–	–	–	0.028 U	0.03 U	0.028 U	0.038 U	0.029 U	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
4-Methyl-2-pentanone	–	1	–	–	0.028 U	0.03 U	0.028 U	0.038 U	0.029 U	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
1,2,3-Trichloropropane	–	0.4	–	–	0.028 U	0.03 U	0.028 U	0.038 U	0.029 U	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
2-Hexanone	–	–	–	–	0.028 U	0.03 U	0.028 U	0.038 U	0.029 U	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Bromochloromethane	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
2,2-Dichloropropane	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-Dibromoethane	–	–	–	–	0.011 U	0.012 U	0.011 U	0.015 U	0.012 U	0.014 U	0.011 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U
1,3-Dichloropropane	–	0.3	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,1,1,2-Tetrachloroethane	–	0.6	–	–	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
Bromobenzene	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
n-Butylbenzene	12	10	500	1,000	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
sec-Butylbenzene	11	10	500	1,000	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
tert-Butylbenzene	5.9	10	500	1,000	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
o-Chlorotoluene	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
p-Chlorotoluene	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-Dibromo-3-chloropropane	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
Hexachlorobutadiene	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
Isopropylbenzene	–	2.3	–	–	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
p-Isopropyltoluene	–	10	–	–	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
Naphthalene	12	13.00	500	1,000	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
Acrylonitrile	–	–	–	–	0.028 U	0.03 U	0.028 U	0.038 U	0.029 U	0.034 U	0.028 U	0.029 U	0.027 U	0.032 U	0.029 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
n-Propylbenzene	3.9	3.7	500	1,000	0.0028 U	0.003 U	0.0028 U	0.0038 U	0.0029 U	0.0034 U	0.0028 U	0.0029 U	0.0027 U	0.0032 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0028 U	0.0028 U
1,2,3-Trichlorobenzene	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,4-Trichlorobenzene	–	3.4	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,3,5-Trimethylbenzene	8.4	3.3	190	380	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,4-Trimethylbenzene	3.6	10	190	380	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Fr. 113)	–	6	–	–	0.057 U	0.06 U	0.057 U	0.076 U	0.059 U	0.068 U	0.056 U	0.059 U	0.054 U	0.063 U	0.057 U	0.059 U	0.057 U	0.057 U	0.057 U	0.057 U
1,4-Diethylbenzene	–	–	–	–	0.011 U	0.012 U	0.011 U	0.015 U	0.012 U	0.014 U	0.011 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U
4-Ethyltoluene	–	–	–	–	0.011 U	0.012 U	0.011 U	0.015 U	0.012 U	0.014 U	0.011 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U
1,2,4,5-Tetramethylbenzene	–	–	–	–	0.011 U	0.012 U	0.011 U	0.015 U	0.012 U	0.014 U	0.011 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U
Ethyl ether	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U
trans-1,4-Dichloro-2-butene	–	–	–	–	0.014 U	0.015 U	0.014 U	0.019 U	0.015 U	0.017 U	0.014 U	0.015 U	0.014 U	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U

Notes:
1. All results in milligrams per kilogram (mg/kg) unless otherwise noted.
2. All VOC samples were analyzed by US EPA Method 8260 for TCL VOCs and Freon 113.
3. U = Parameter detected below Reported Detection Limit (RDL).
4. Bolded values indicates that analyte was at a concentration is exceedance of its NYSDEC Resticted-use Commercial SCO.
5. – = Regulatory Guidance Value is not available.

Apex Companies, LLC

Table 4-1
One Commerce Park Site, Vahalla, NY
Passive Soil Vapor Analytical Date - TCL VOCs + Freon 113

	Building Interior						Building Exterior - Bare Ground						Building Exterior - Asphalt Pavement				QA/QC	
Analyte	SV-1 (24-30")	SV-2 (30")	SV-3 (30-36")	SV-4 (36")	SV-5 (30")	SV-6 (24-30")	SV-7 (36")	SV-8 (36")	SV-9 (36")	SV-10 (36")	SV-11 (36")	SV-16 (36")	SV-12 (36")	SV-13 (36")	SV-14 (36")	SV-15 (36")	MB	Trip-1
Chloroethane	**36**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Bromomethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl Chloride	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloromethane	**298**	**596**	**269**	**215**	**1,152**	**431**	**680**	**376**	**629**	**90**	**658**	**569**	**2,637**	**484**	**5,356**	**3,155**	<25	<25
Acetone	**177**	**293**	**179**	**195**	**47**	**2,535**	<25	**147**	<25	**30**	<25	**37**	**183**	**43**	**147**	**137**	<25	<25
1,1-Dichloroethene	<25	<25	<25	<25	**43**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	<25	**25**	<25	<25	<25	**66**	<25	<25	<25	<25	<25	<25	**41**	<25	<25	**45**	<25	<25
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**79**	<25	<25	<25	<25	<25	<25
Carbon disulfide	<25	<25	<25	**75**	<25	<25	<25	<25	<25	<25	<25	<25	**123**	**37**	**84**	**70**	<25	<25
trans-1,2-Dichloroethene	<25	**40**	**49**	**38**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
2-Butanone (MEK)	<25	<25	<25	<25	**62**	**68**	<25	<25	<25	<25	<25	<25	**33**	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloroform	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	**52**	<25	<25	<25	<25	<25	<25	**76**	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**28**	<25	<25	<25
1,2-Dichloropropane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	**39**	<25	<25	<25	**181**	<25	<25	**27**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Bromodichloromethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,3-Dichloropropene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
4-Methyl-2-pentanone (MIBK)	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,3-Dichloropropene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
2-Hexanone	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Dibromochloromethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	<25	<25	<25	<25	<25	<25	<25	**28**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p & m-Xylene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**26**	<25	<25	<25	<25	<25
Bromoform	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Styrene	<25	<25	<25	<25	<25	**1,211**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
o-Xylene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25

Notes:
1. All data are in nanograms (ng).
2. < - Analyte not detected above its Reporting Detection Level.

FIGURES

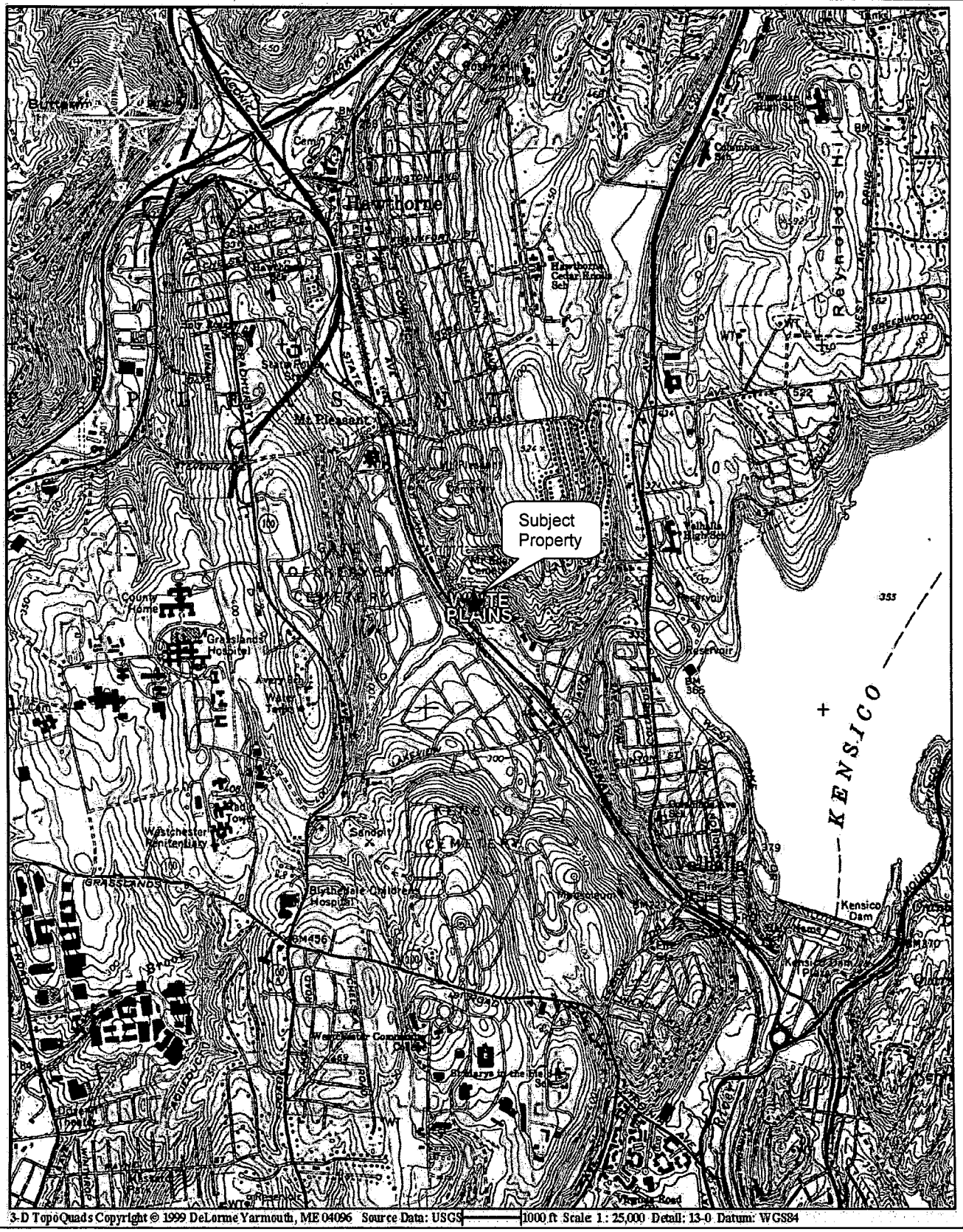
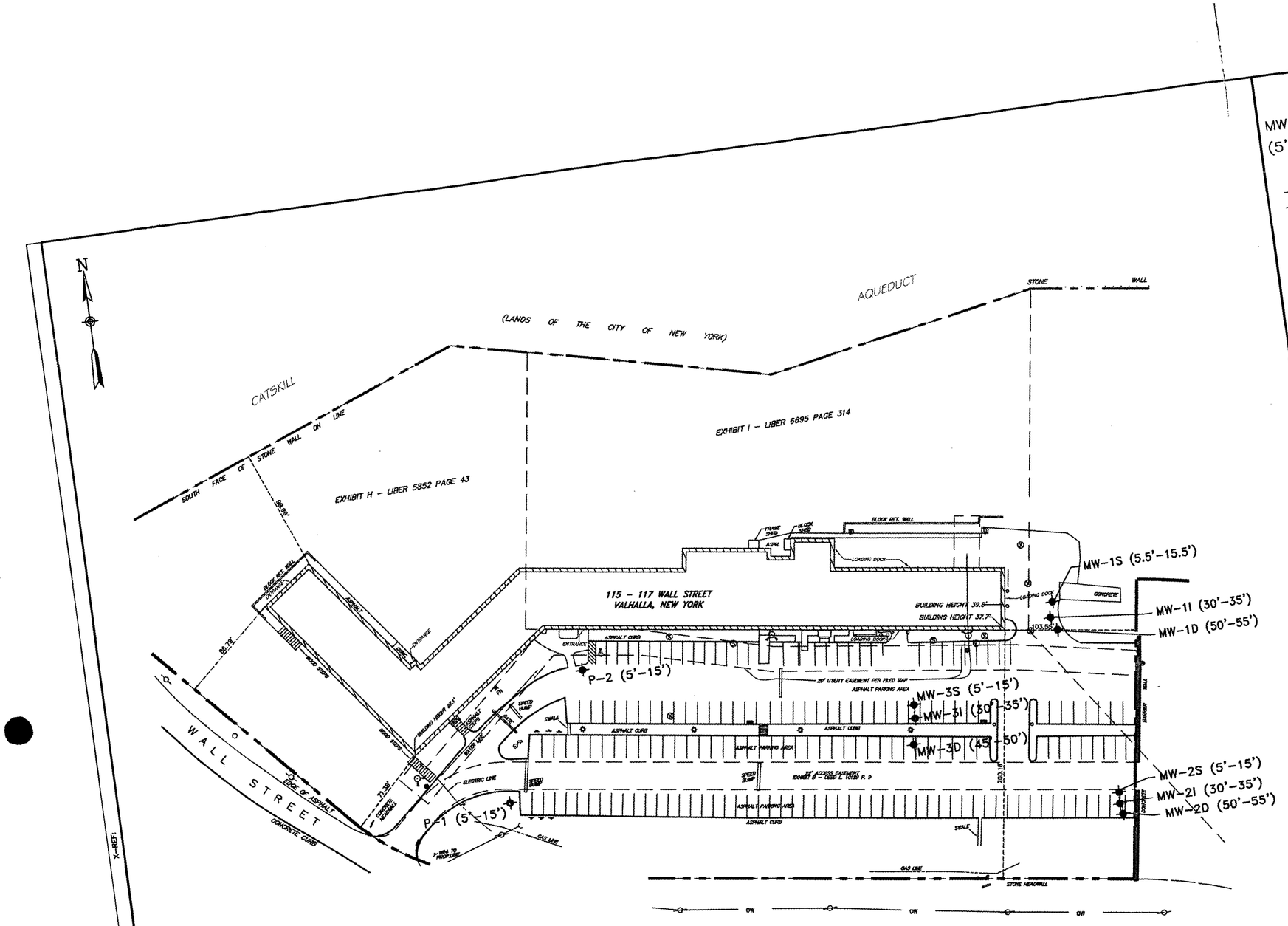


Figure 1-1
One Commerce Park Site
Site Location Map

Client:	DP 16, LLC
Project No.:	85144.006
Project Location:	Valhalla, NY
Date:	September, 2010



LEGEND

MW-1 (5'-15') — MONITORING WELL CLUSTER (3) DEPTHS – S/I/D; SCREENED ZONE OF MONITORING WELL

UTILITY POLE

—OW— OVERHEAD WIRE

— — — PROPERTY LINE

SOURCE: DP ALTA SURVEY CAD VERSION
DATE: MAY 22, 2008
FARRANDS CONTROL SITE RI REPORT
TARGETED TOTAL VOC CONCENTRATION...
DATE: MARCH 2002
DVIRKA AND BARTILUCCI

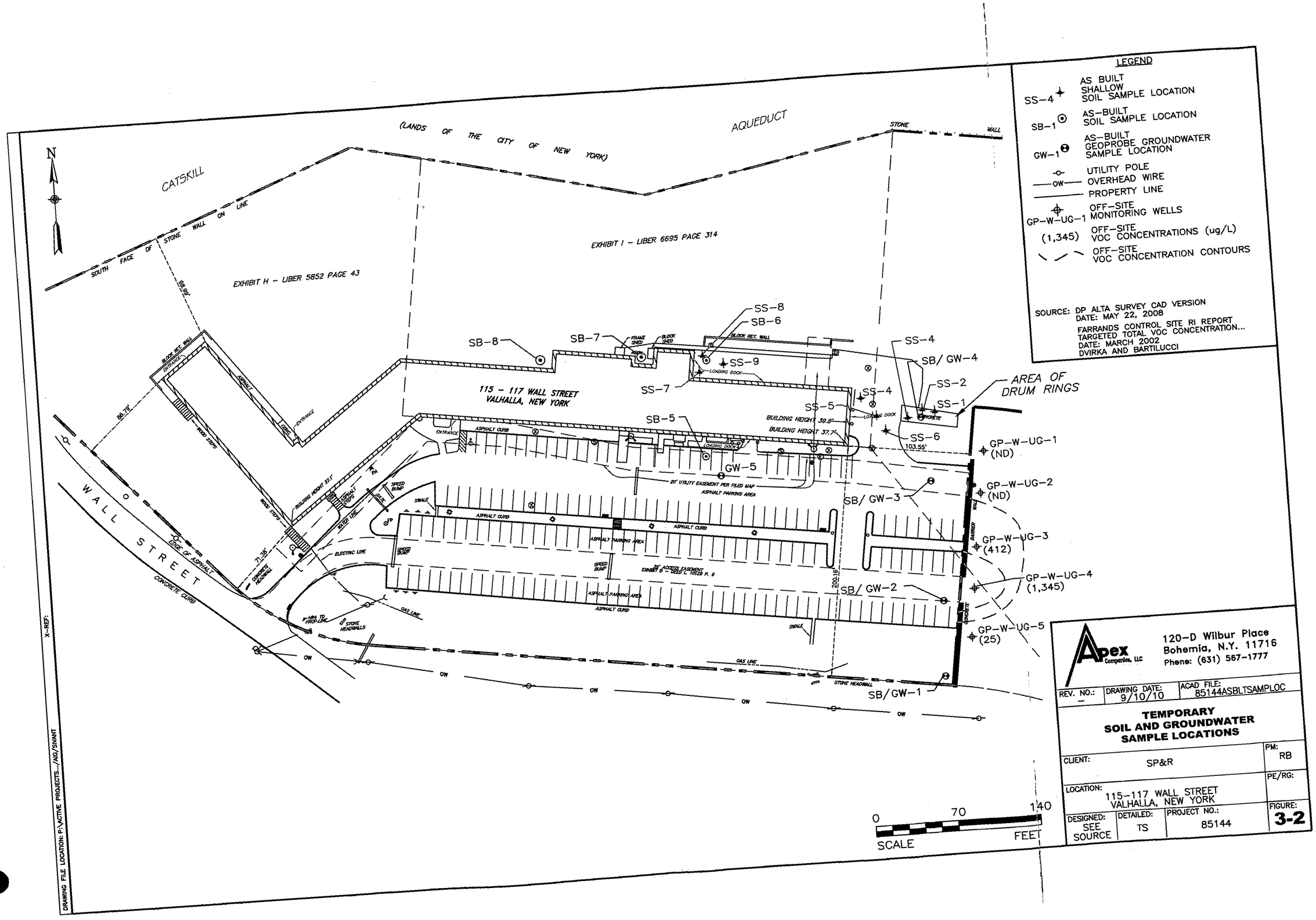
0 80 160
SCALE FEET

Apex Companies, LLC
120-D Wilbur Place
Bohemia, N.Y. 11716
Phone: (631) 567-1777

REV. NO.:	DRAWING DATE:	ACAD FILE:
—	9/10/10	85164PGMWLOC

PERMANENT GROUNDWATER MONITORING WELL LOCATIONS

CLIENT: SP&R		PM: RB
LOCATION: 115-117 WALL STREET VALHALLA, NEW YORK		PE/RG:
DESIGNED: SEE SOURCE	DETAILED: TS	PROJECT NO.: 85144
		FIGURE: 3-3



LEGEND

- SS-4 — AS BUILT SHALLOW SOIL SAMPLE LOCATION
- SB-1 — AS-BUILT SOIL SAMPLE LOCATION
- GW-1 — AS-BUILT GEOPROBE GROUNDWATER SAMPLE LOCATION
- UTILITY POLE
- —OW— OVERHEAD WIRE
- PROPERTY LINE
- GP-W-UG-1 — OFF-SITE MONITORING WELLS
- (1,345) — OFF-SITE VOC CONCENTRATIONS (ug/L)
- OFF-SITE VOC CONCENTRATION CONTOURS

SOURCE: DP ALTA SURVEY CAD VERSION
DATE: MAY 22, 2008
FARRANDS CONTROL SITE RI REPORT
TARGETED TOTAL VOC CONCENTRATION...
DATE: MARCH 2002
DVIRKA AND BARTILUCCI

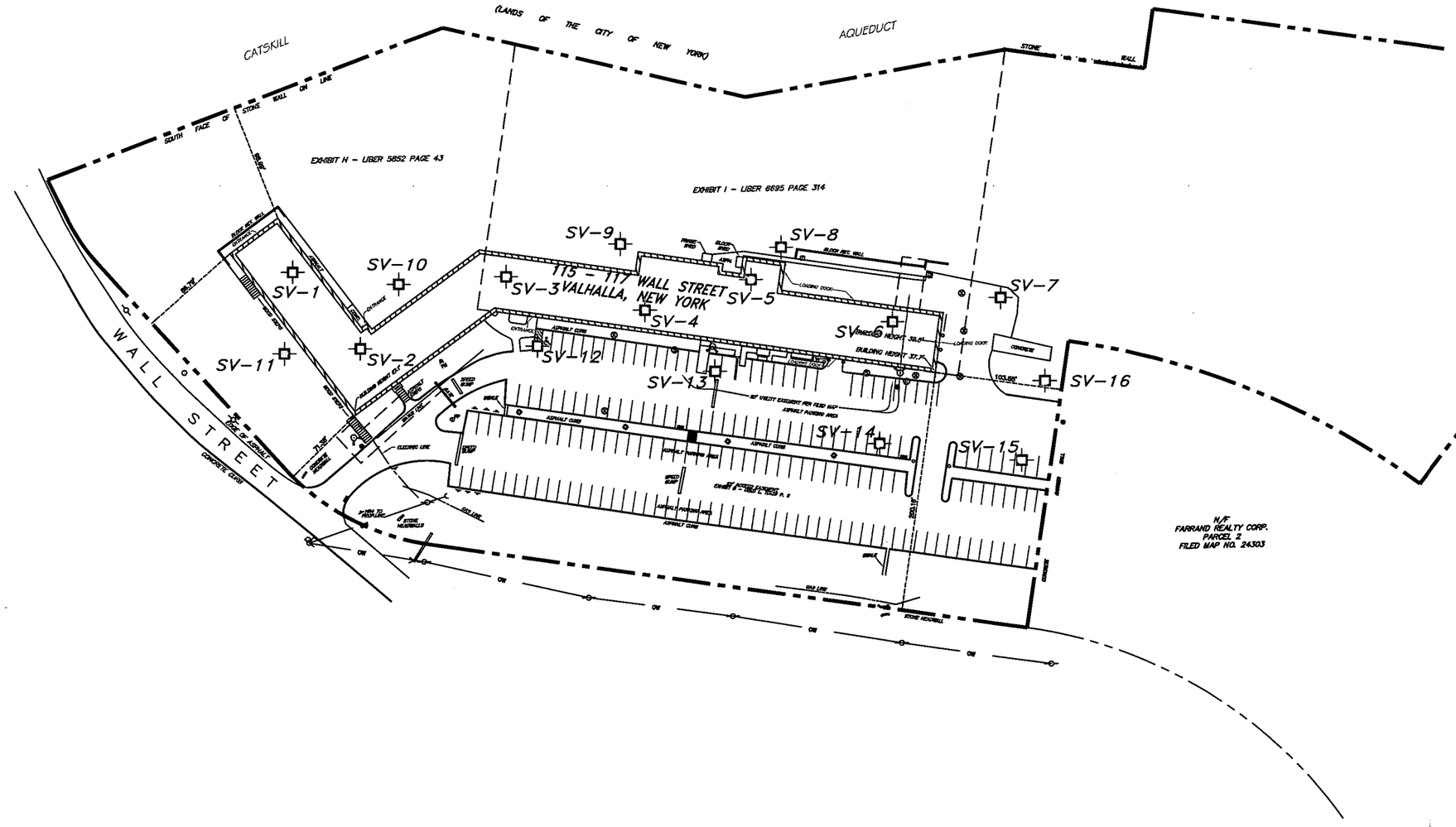
Apex Companies, LLC
120-D Wilbur Place
Bohemia, N.Y. 11716
Phone: (631) 567-1777

REV. NO.:	DRAWING DATE:	ACAD FILE:
–	9/10/10	85144ASBLTSAMPLOC

TEMPORARY SOIL AND GROUNDWATER SAMPLE LOCATIONS

CLIENT: SP&R		PM: RB
LOCATION: 115-117 WALL STREET VALHALLA, NEW YORK		PE/RG:
DESIGNED: SEE SOURCE	DETAILED: TS	PROJECT NO.: 85144
		FIGURE: 3-2

X-REF:
DRAWING FILE LOCATION: P:\ACTIVE PROJECTS...\AIG/SWANT



LEGEND

- AS–BUILT SOIL VAPOR SAMPLE LOCATION
- UTILITY POLE
- OW — OVERHEAD WIRE
- PROPERTY LINE

SOURCE: DP ALTA SURVEY CAD VERSION
DATE: MAY 22, 2008

N

0 100 200

SCALE FEET

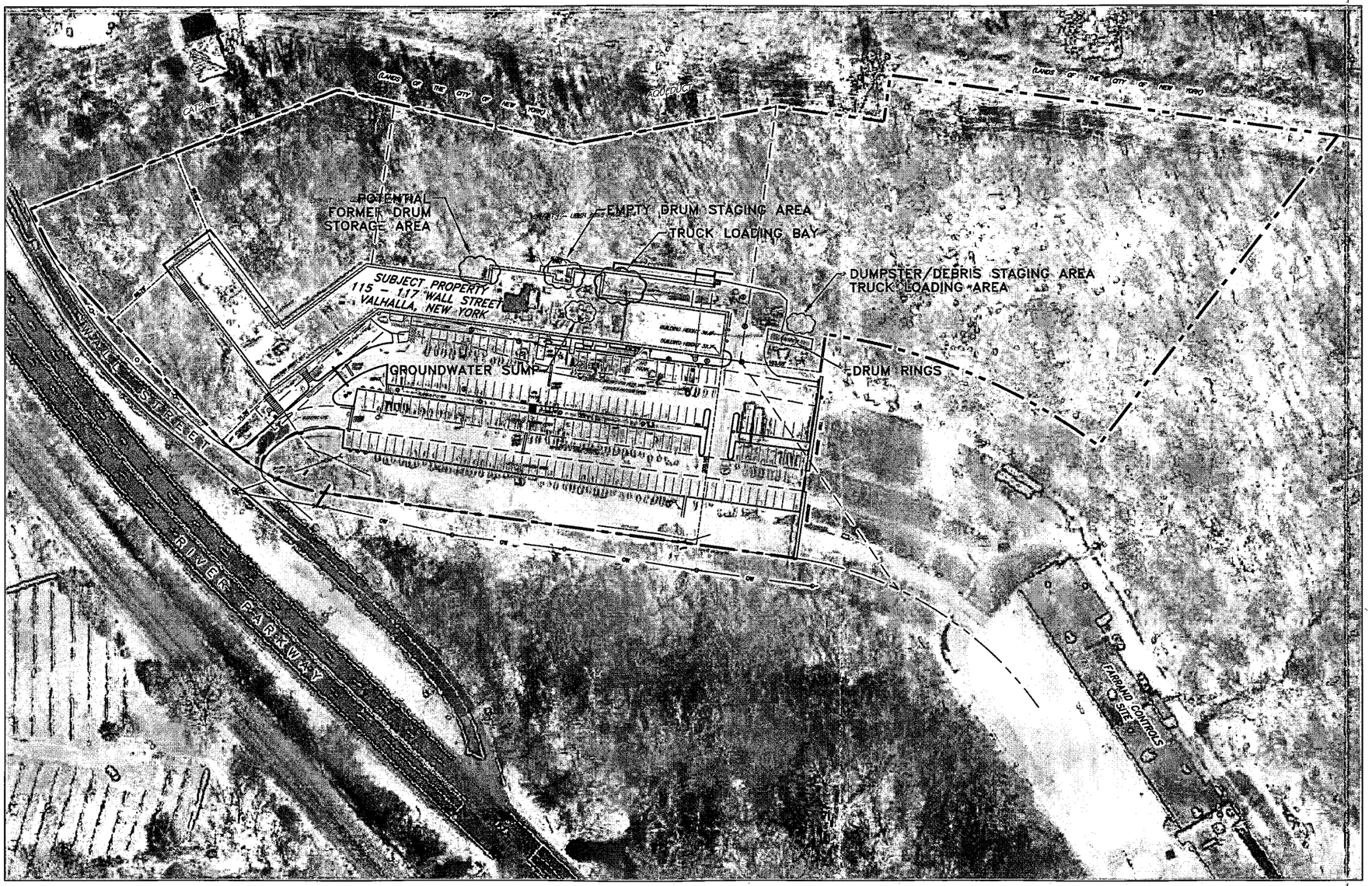
Apex Companies, LLC
120–D Wilbur Place
Bohemia, N.Y. 11716
Phone: (631) 567–1777

REV. NO.:	DRAWING DATE:	ACAD FILE:
–	2/4/10	85144ASSVSL–2

SOIL VAPOR SAMPLE LOCATIONS

CLIENT:		PM:
SP&R		RB
LOCATION: 115–117 WALL STREET VALHALLA, NEW YORK		PE/RG:
DESIGNED: SEE SOURCE	DETAILED: TS	PROJECT NO.: 85144
		FIGURE: **3-1**

DRAWING FILE LOCATION: P:\ACTIVE PROJECTS.../AIG/SIVANT X-REF:



LEGEND

- UTILITY POLE
- OW — OVERHEAD WIRE
- PROPERTY LINE
- AREA OF CONCERN

SOURCE: DP ALTA SURVEY CAD VERSION
DATE: MAY 22, 2008

N

0 120 240

SCALE FEET

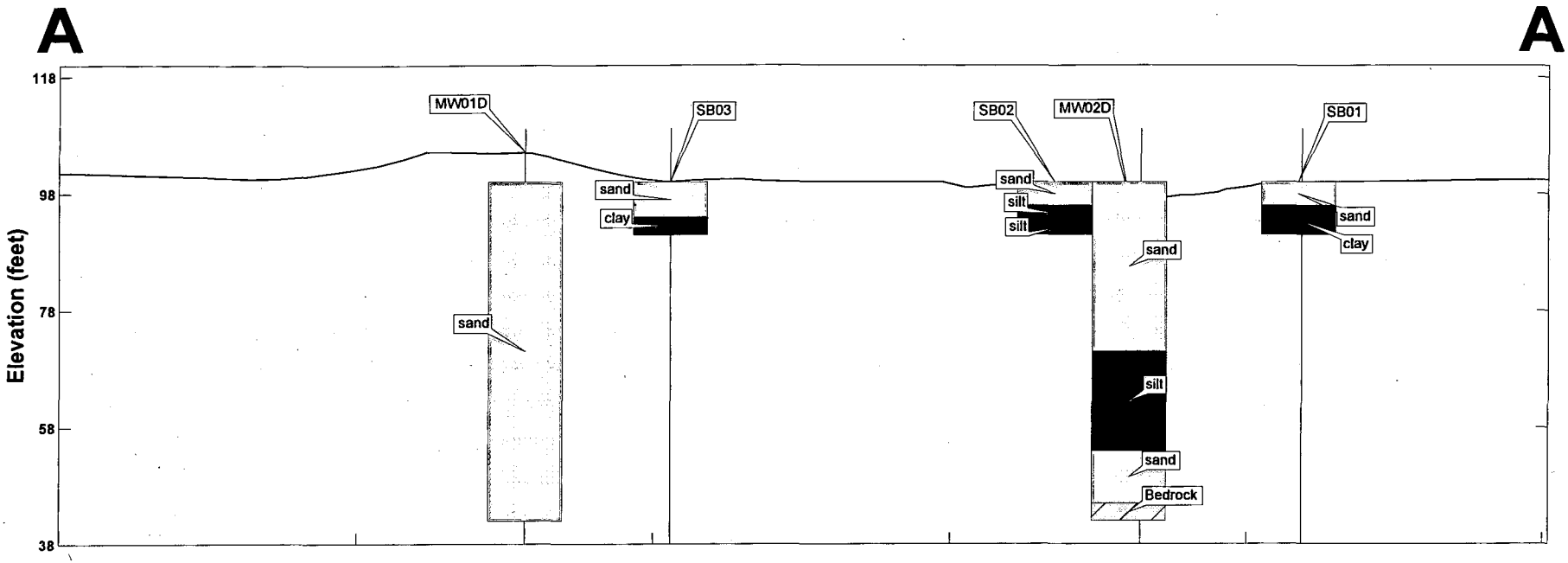
Apex Companies, LLC
120-D Wilbur Place
Bohemia, N.Y. 11716
Phone: (631) 567-1777

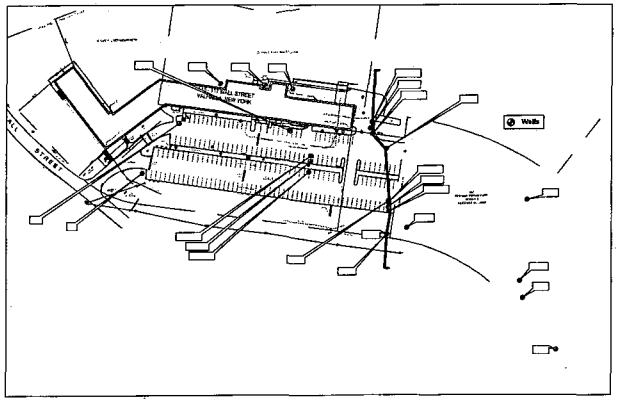
REV. NO.:	DRAWING DATE:	ACAD FILE:
–	9/10/10	85164SITERI2

SITE PLAN

CLIENT: SP&R			PM: RB
LOCATION: 115–117 WALL STREET VALHALLA, NEW YORK			PE/RG:
DESIGNED: SEE SOURCE	DETAILED: TS	PROJECT NO.: 85144	FIGURE: 1-2

DRAWING FILE LOCATION: P:\AGENCY\PROJECTS...\UAL\8505-856\Drawings & CAD





Stratigraphy Within 20 feet of section

- sand
- silt
- clay
- Bedrock

Figure 3-4a

Geologic Section
East Property Line

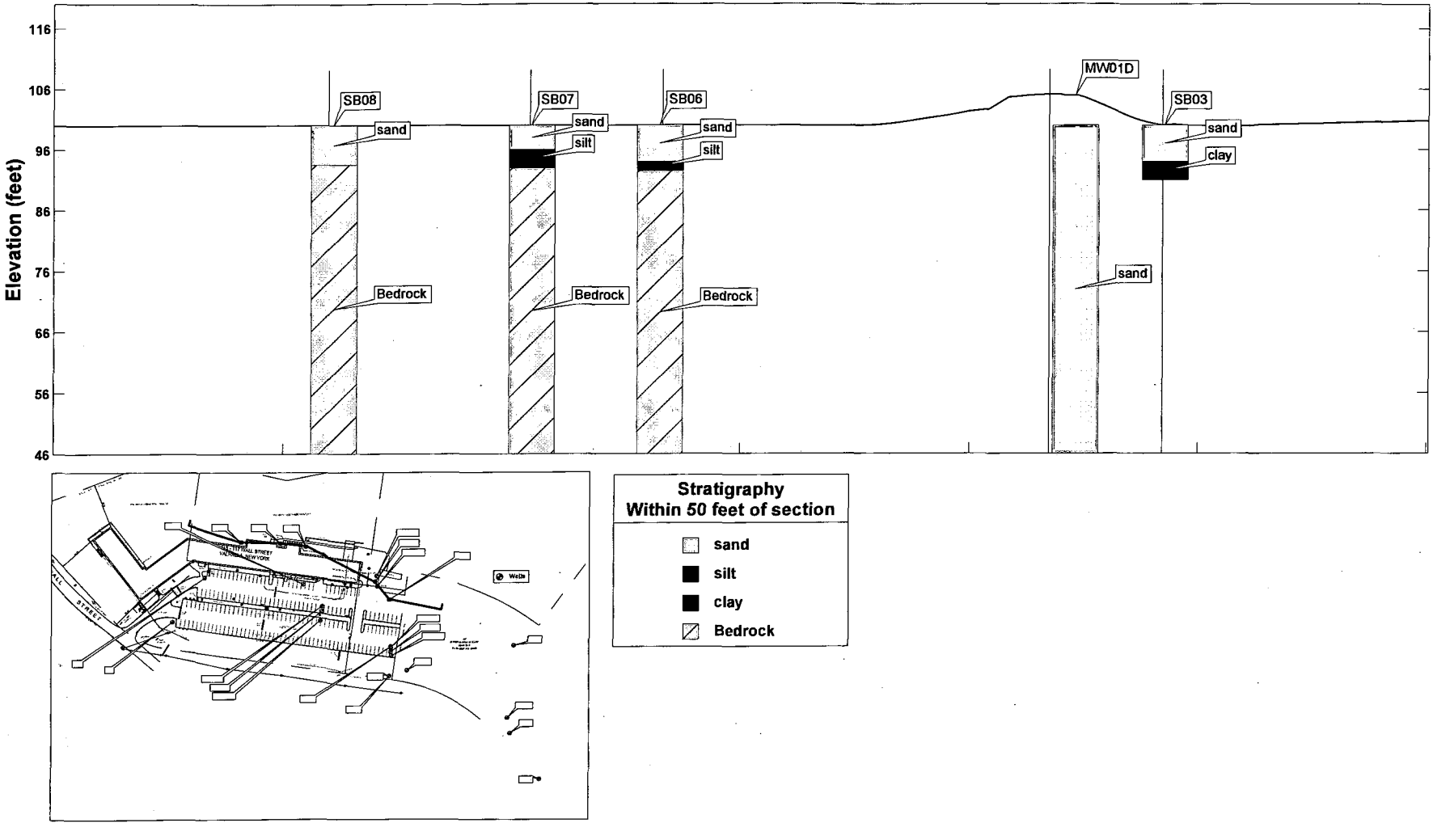


Figure 3-4b

North Section of Site Geologic Section

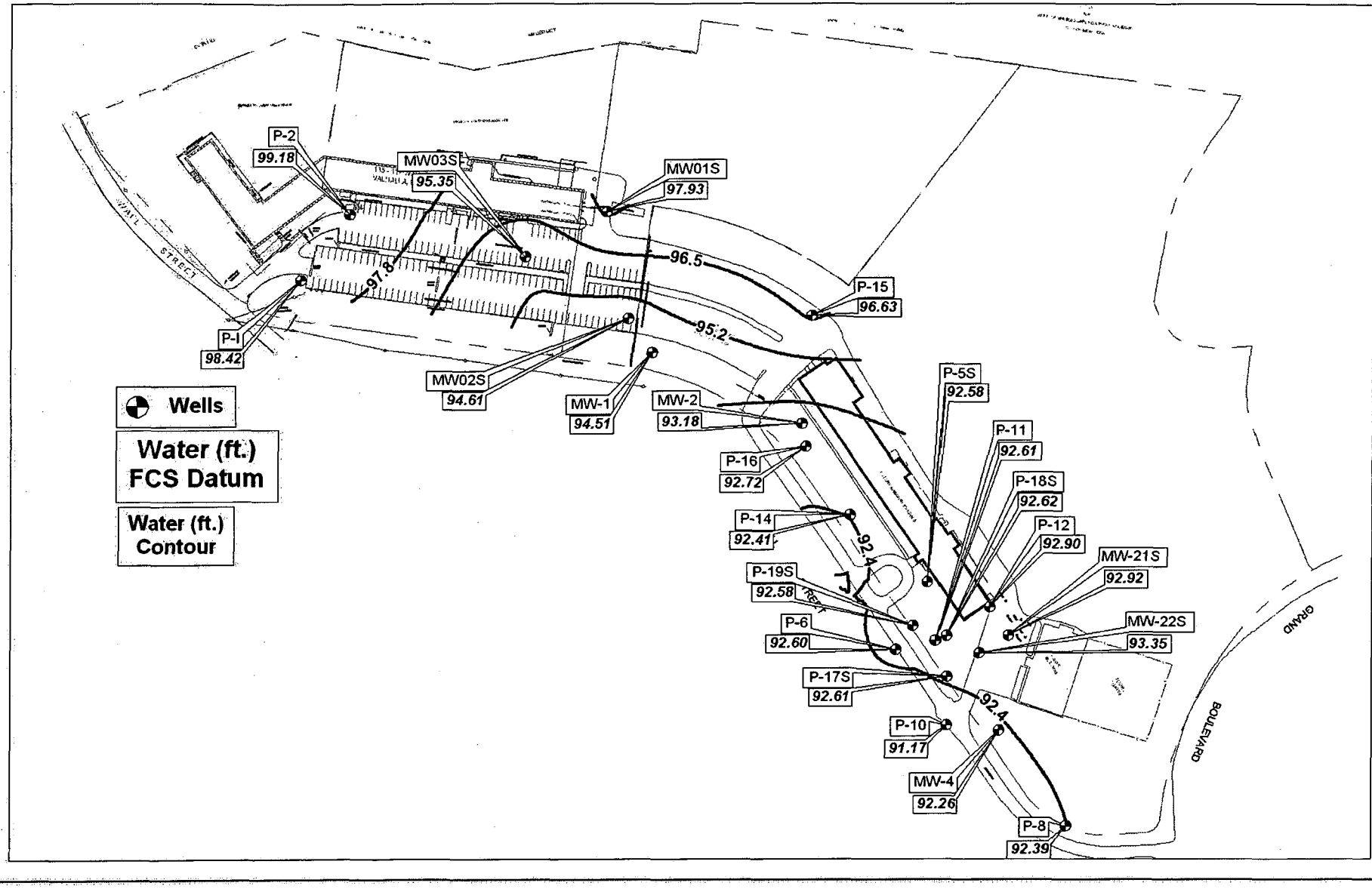
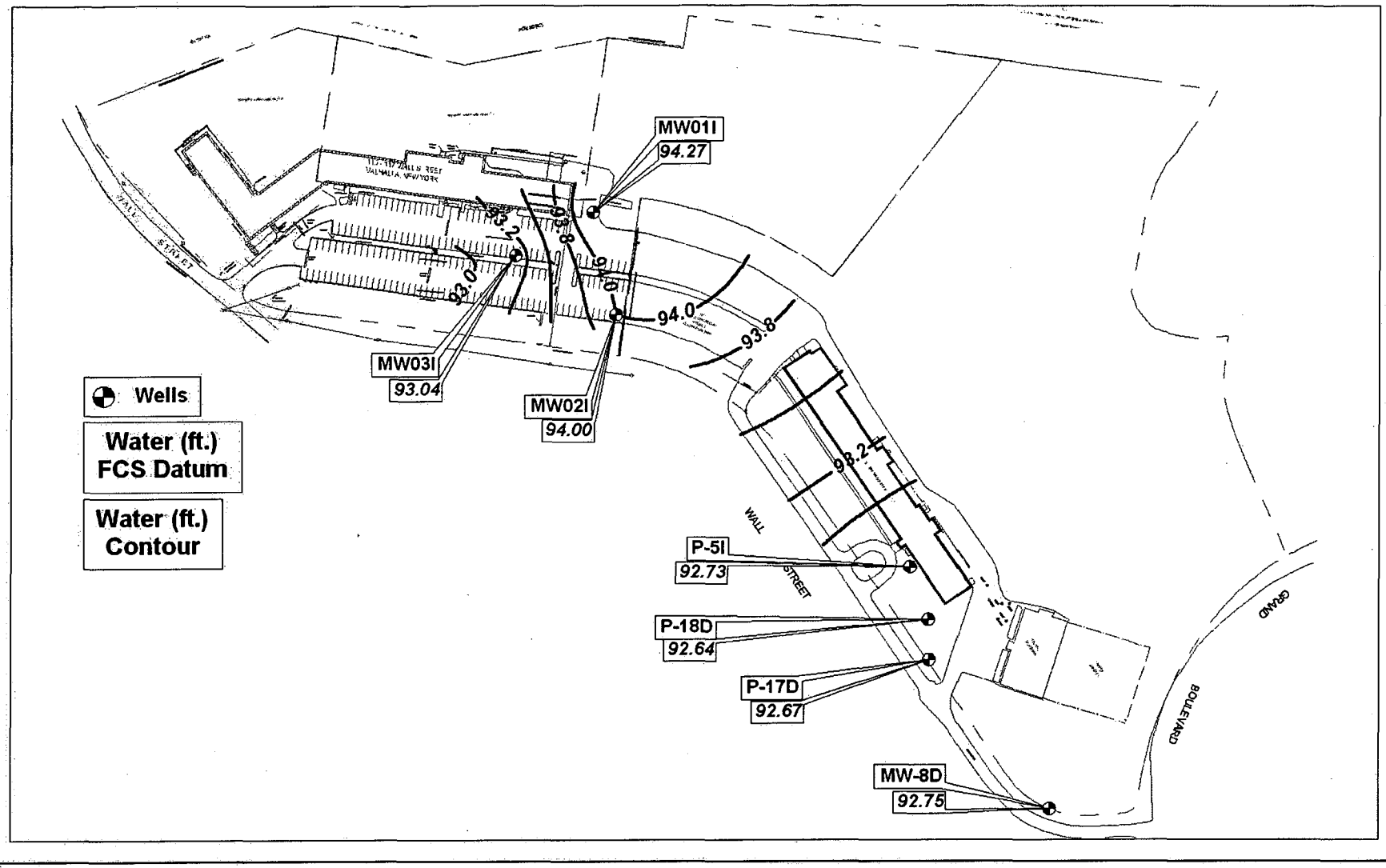


FIGURE 3-5
SHALLOW GROUNDWATER ELEVATION MAP
One Commerce Park, Valhalla NY - April 22, 2010

Apex Companies, LLC



Apex Companies, LLC

FIGURE 3-6
INTERMEDIATE GROUNDWATER ELEVATION MAP
One Commerce Park, Valhalla NY - April 22, 2010

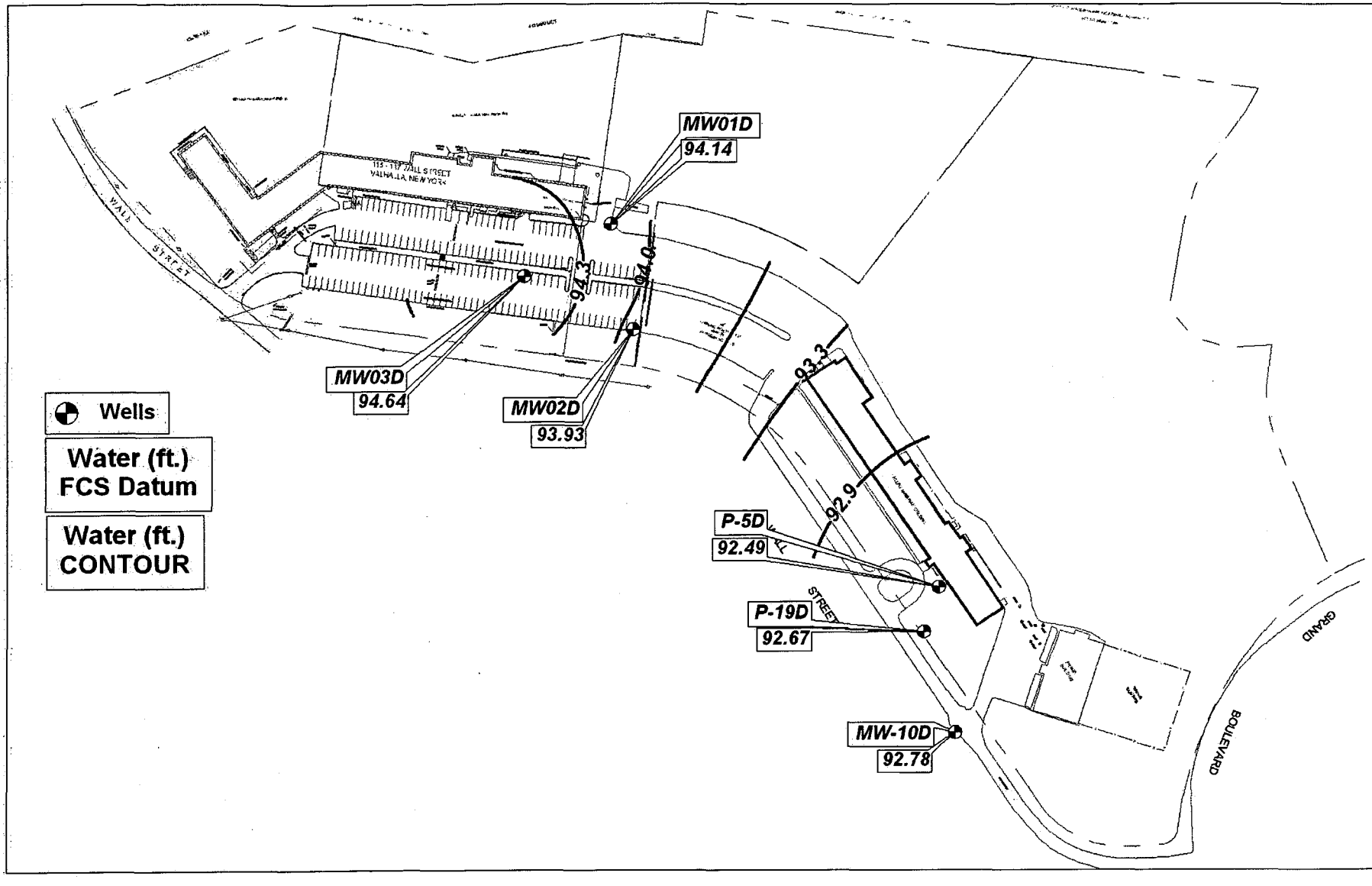


FIGURE 3-7

DEEP GROUNDWATER ELEVATION MAP

One Commerce Park, Valhalla NY - April 22, 2010

Apex Companies, LLC

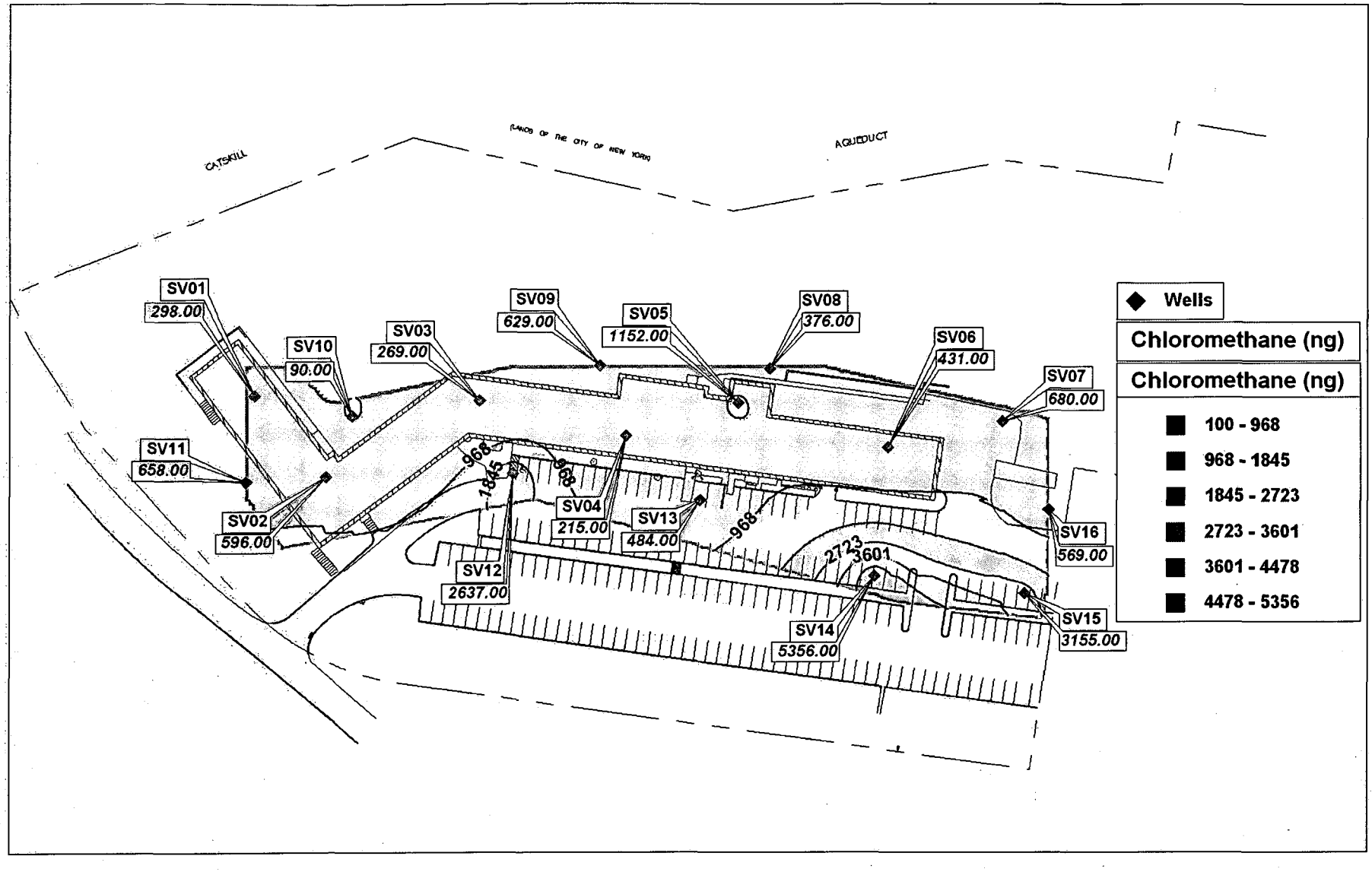


FIGURE 4-1
Chloromethane in Soil Vapor (24"-36")
One Commerce Park, Valhalla NY

Apex Companies, LLC

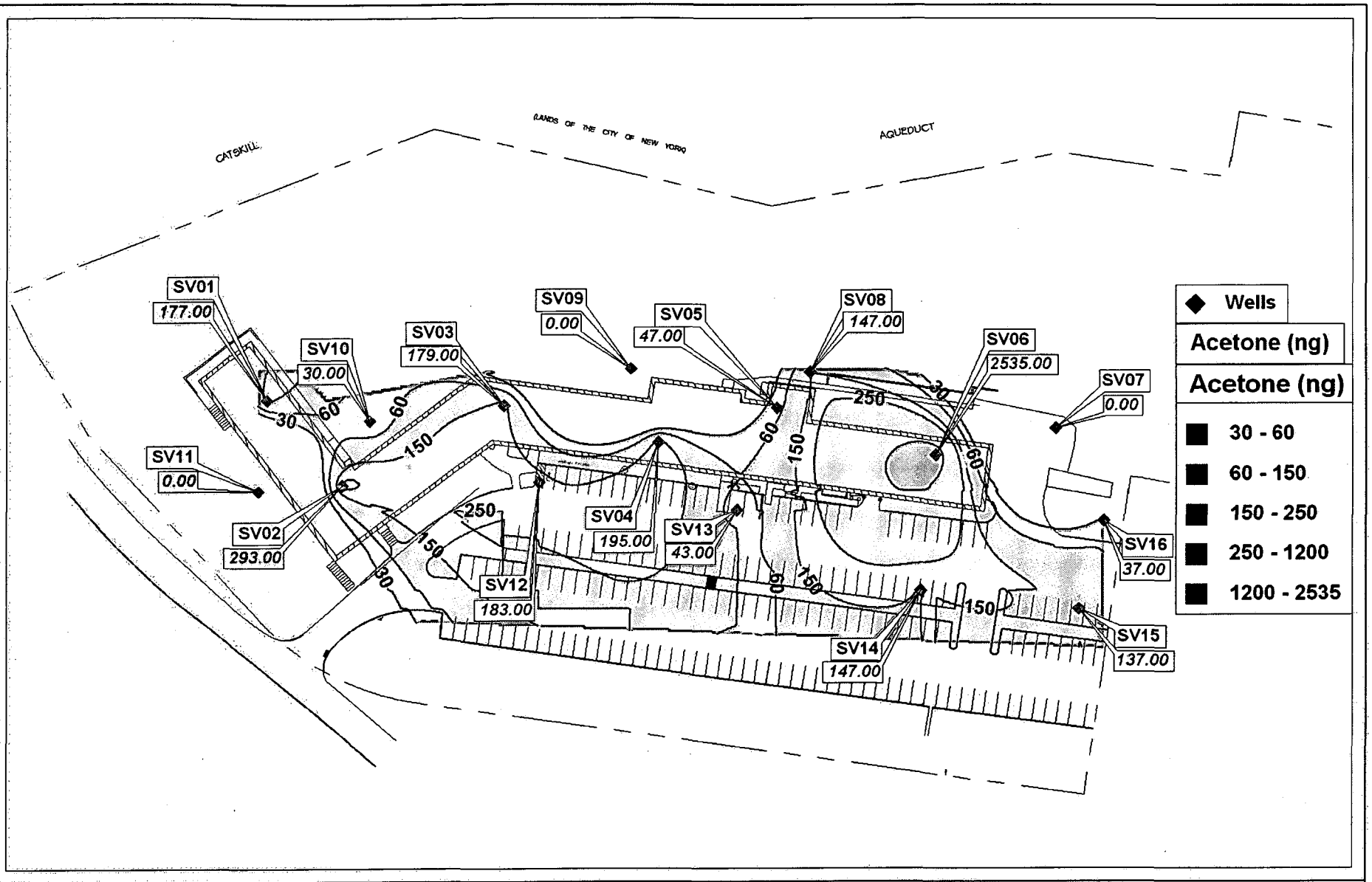


FIGURE 4-2
Acetone In Soil Vapor (24"-36")
One Commerce Park, Valhalla NY

Apex Companies, LLC

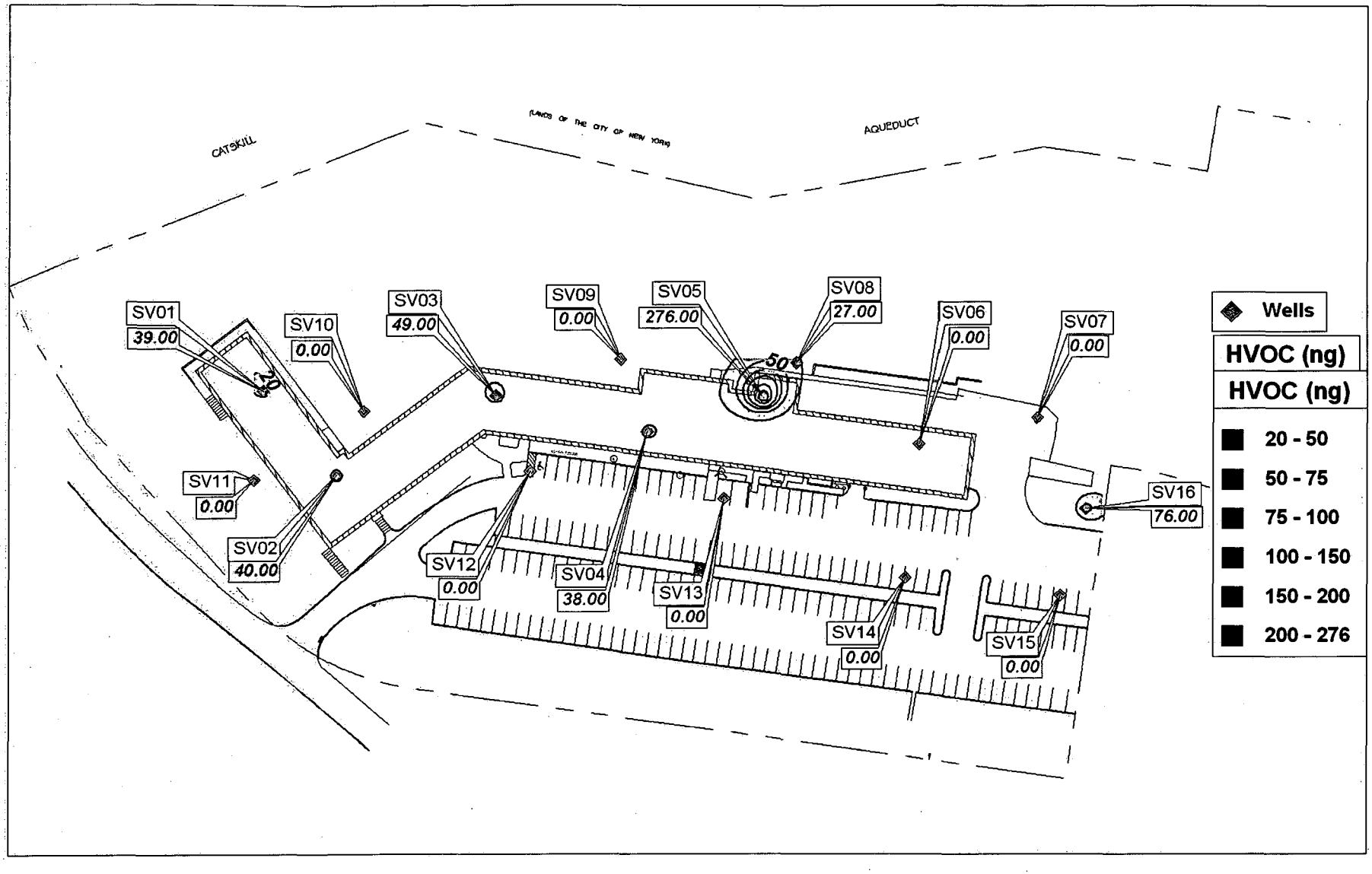


FIGURE 4 - 3

HALOGENATED VOCs IN SOIL VAPOR (24" - 36")

One Commerce Park, Valhalla NY

Apex Companies, LLC

N W E S

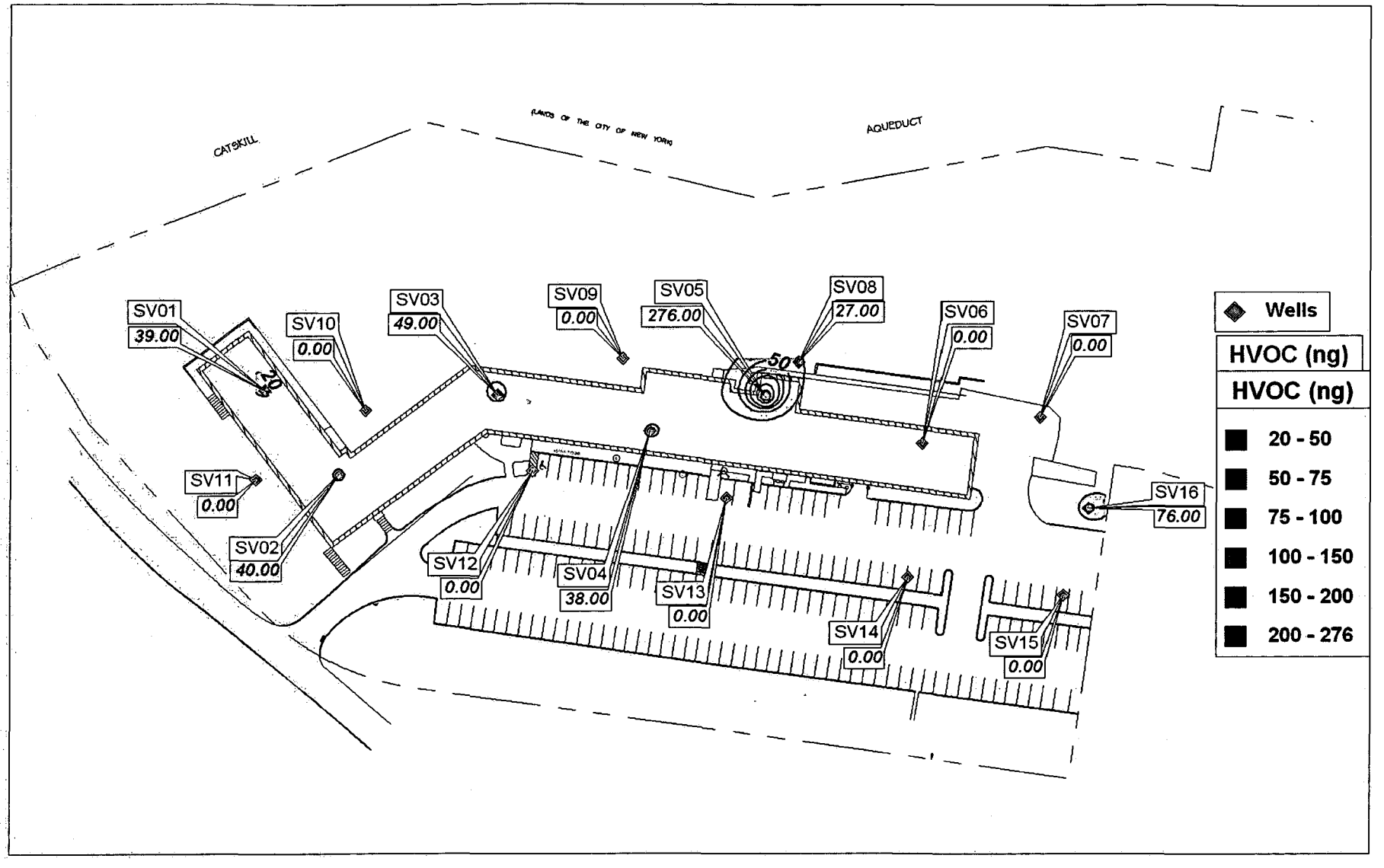


FIGURE 4 - 3

HALOGENATED VOCs IN SOIL VAPOR (24" - 36")

One Commerce Park, Valhalla NY

Apex Companies, LLC

N
W E
S

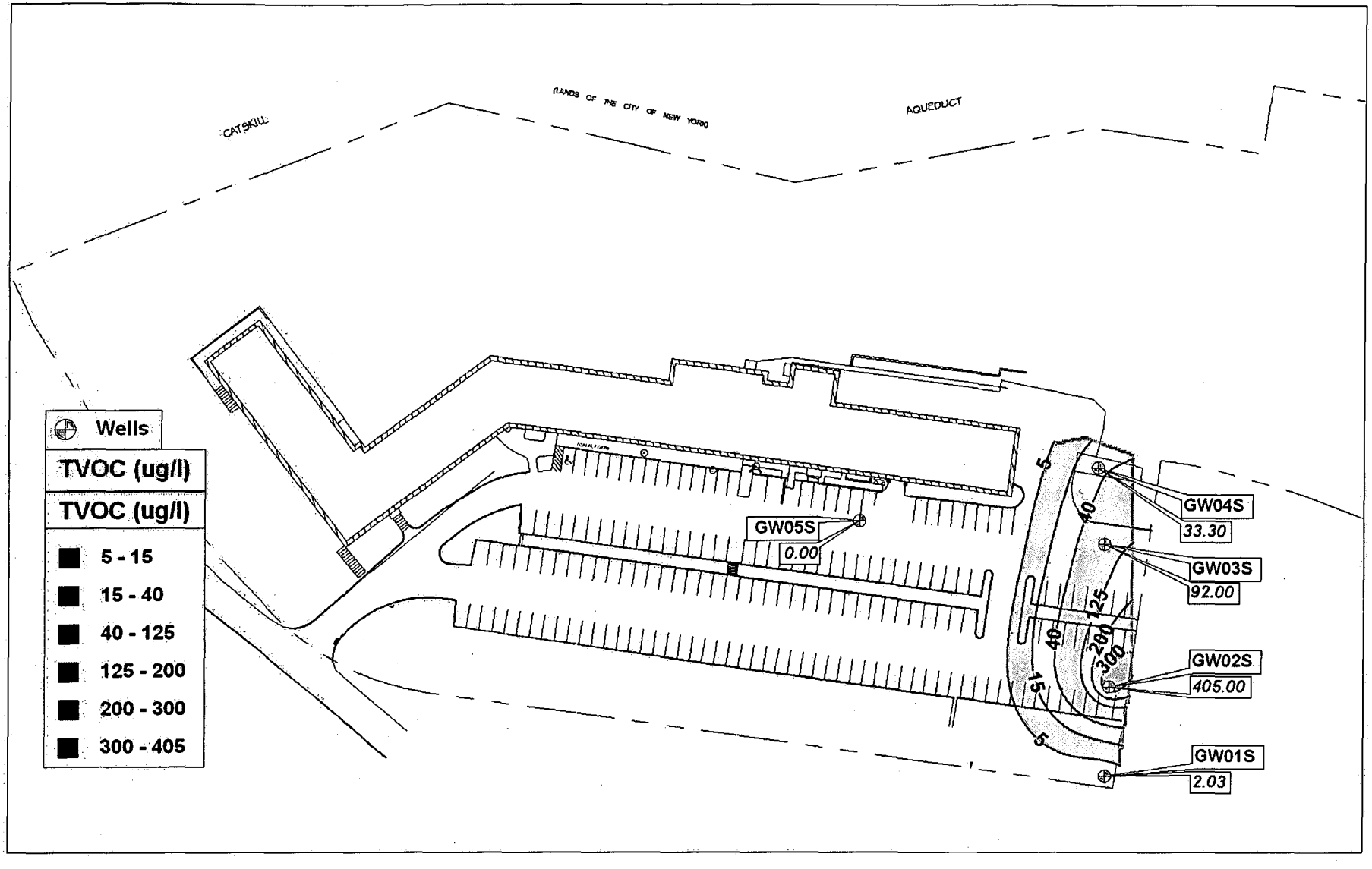


FIGURE 4-4
Shallow Groundwater Analytical Data (11'-18')
One Commerce Park, Valhalla NY - (Grab Samples)

Apex Companies, LLC

TVOC = 1,1-Dichlorethane; Vinyl Chloride; Trichloroethene; cis-1,2-Dichloroethene.

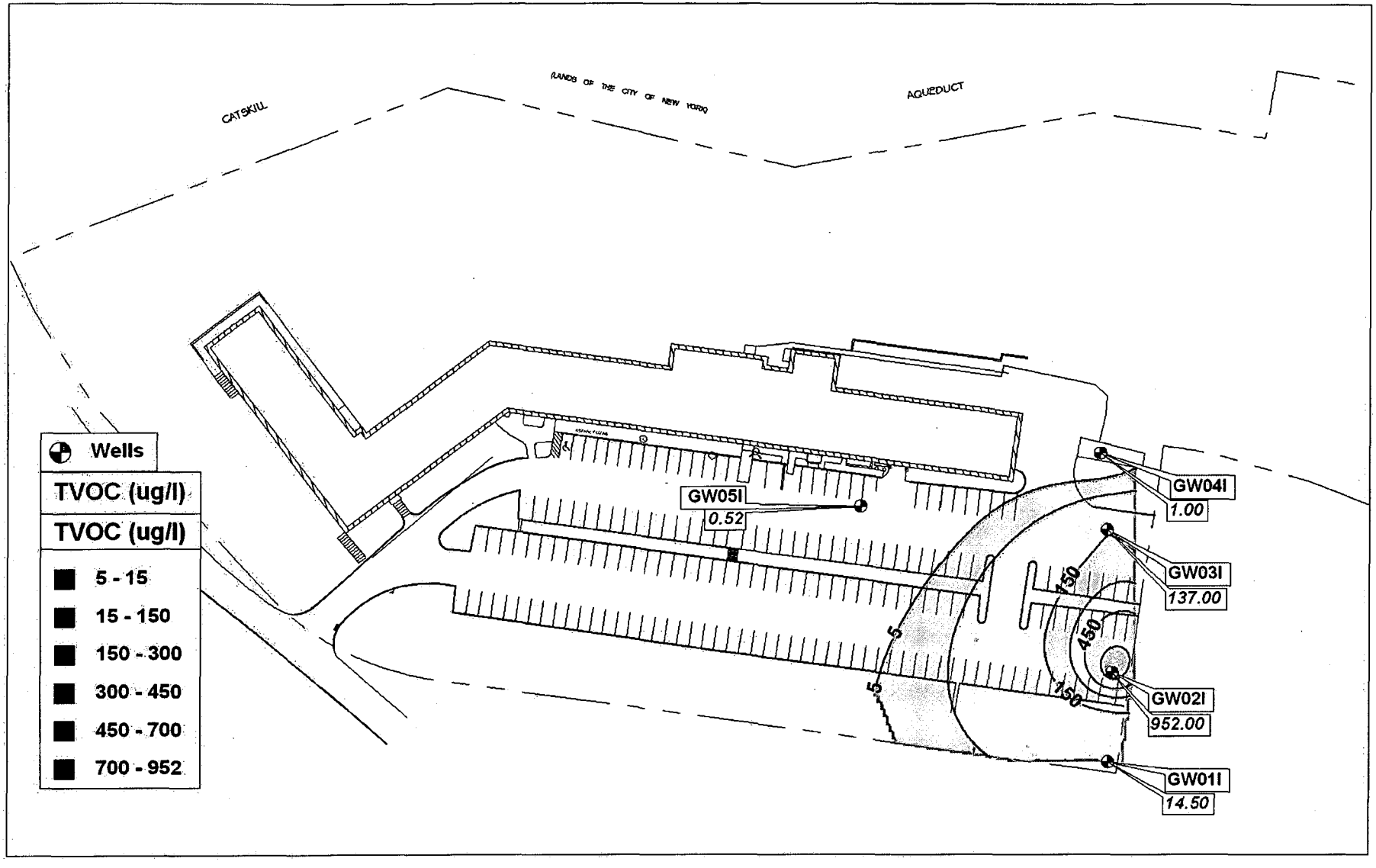


FIGURE 4-5
Intermediate Groundwater Analytical Data (24'-32')
One Commerce Park, Valhalla NY - (Grab Samples)

Apex Companies, LLC

TVOC = 1,1-Dichloroethene; Vinyl Chloride; Trichloroethene; o-xylene; cis-1,2-Dichloroethene

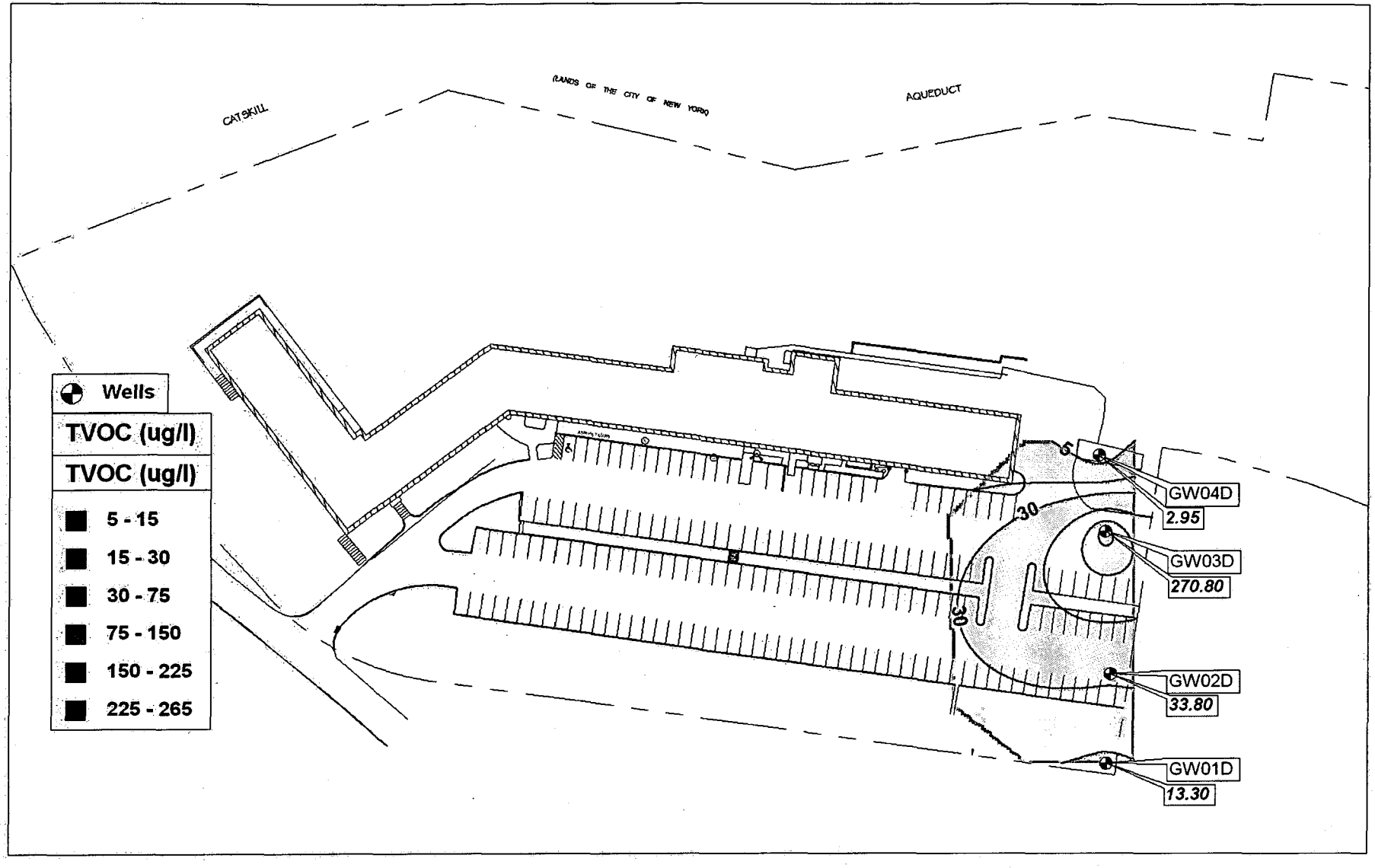


FIGURE 4-6
Deep Groundwater Analytical Contours (40'-50')
One Commerce Park, Valhalla NY - (Grab Samples)

Apex Companies, LLC

TVOC = 1,1-Dichlorethane; Vinyl Chloride; Trichloroethene; cis-1,2-Dichloroethene

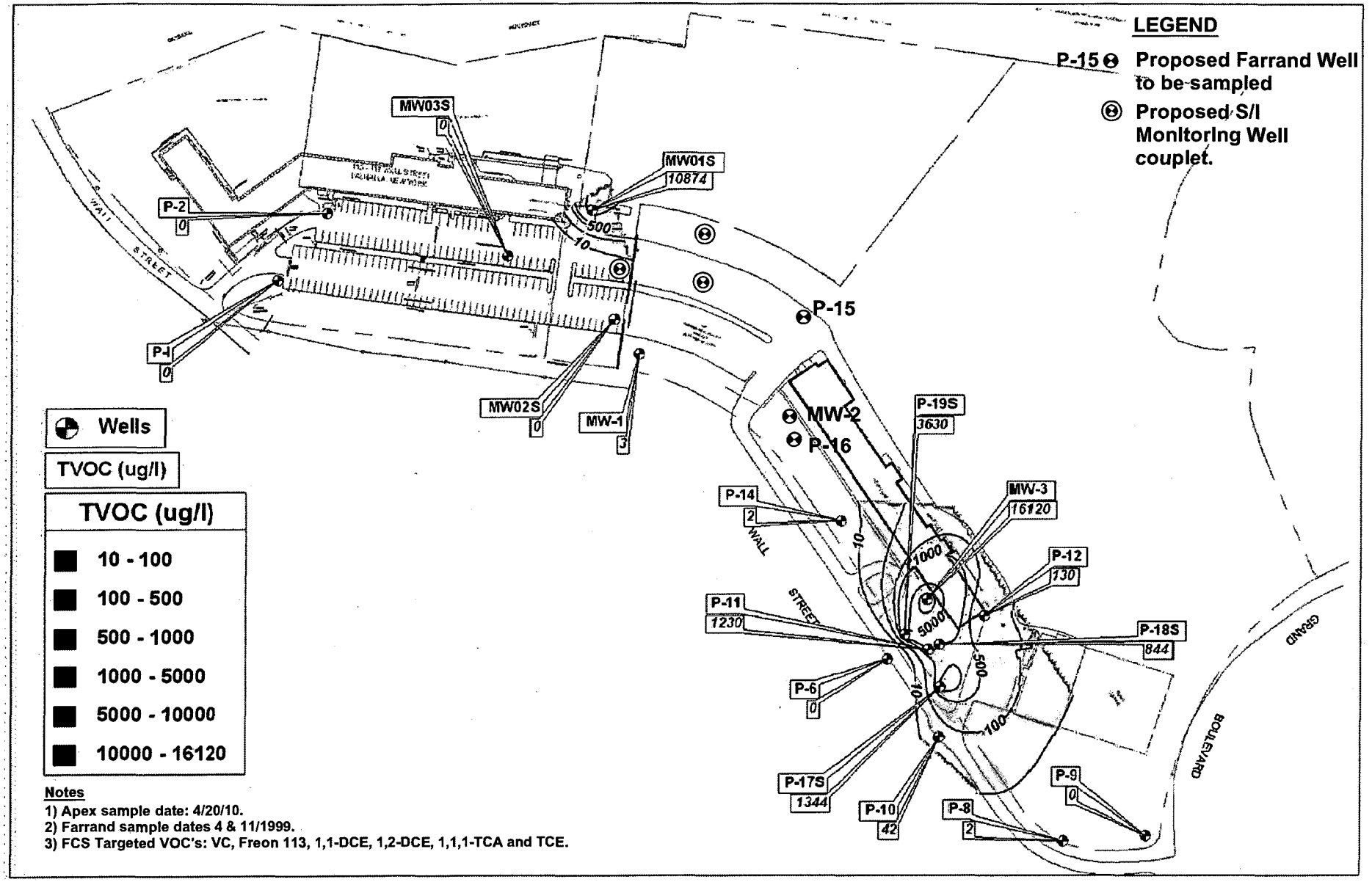


FIGURE 4-7
Shallow Zone Composite Targeted VOC's in Monitoring Well Groundwater Samples

Apex Companies, LLC

One Commerce Park, Valhalla NY

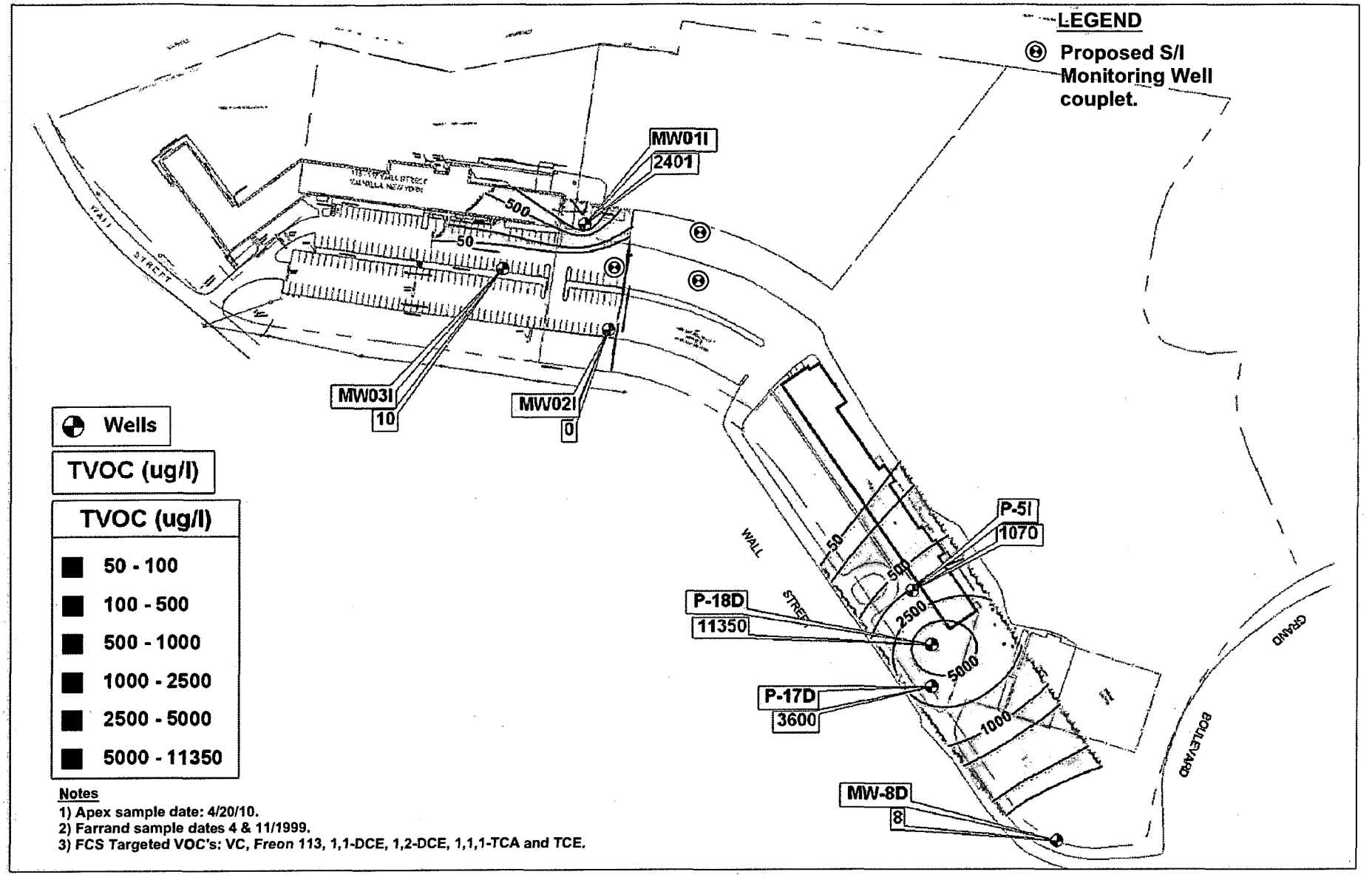


FIGURE 4-8
Intermediate Zone Composite Targeted VOC's in Monitoring Weil Groundwater Samples

Apex Companies, LLC

One Commerce Park, Valhalla NY

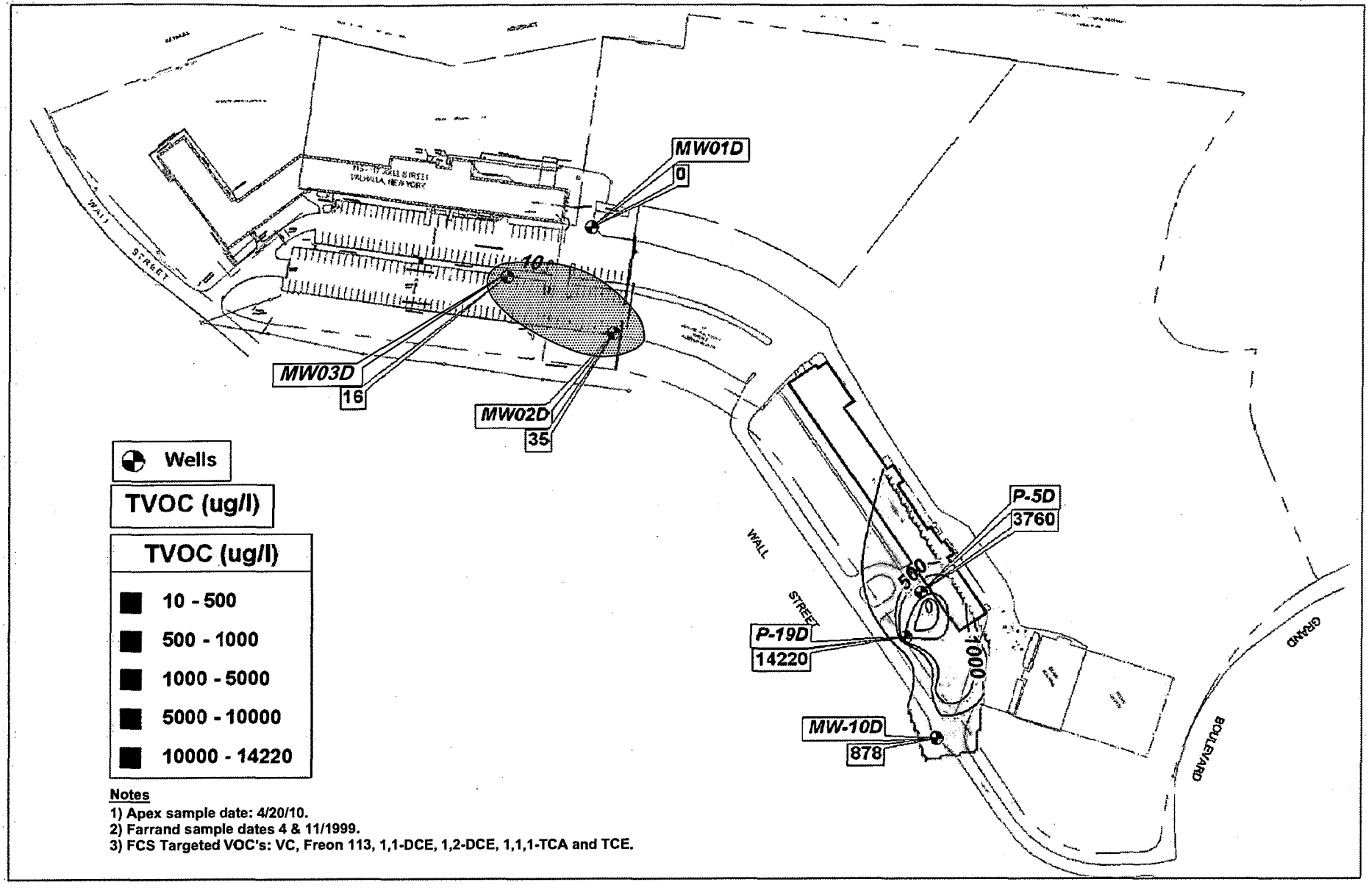


FIGURE 4-9
Deep Zone Composite Targeted VOC's in Monitoring Well Groundwater Samples

Apex Companies, LLC

N W E S

One Commerce Park, Valhalla NY

APPENDICES

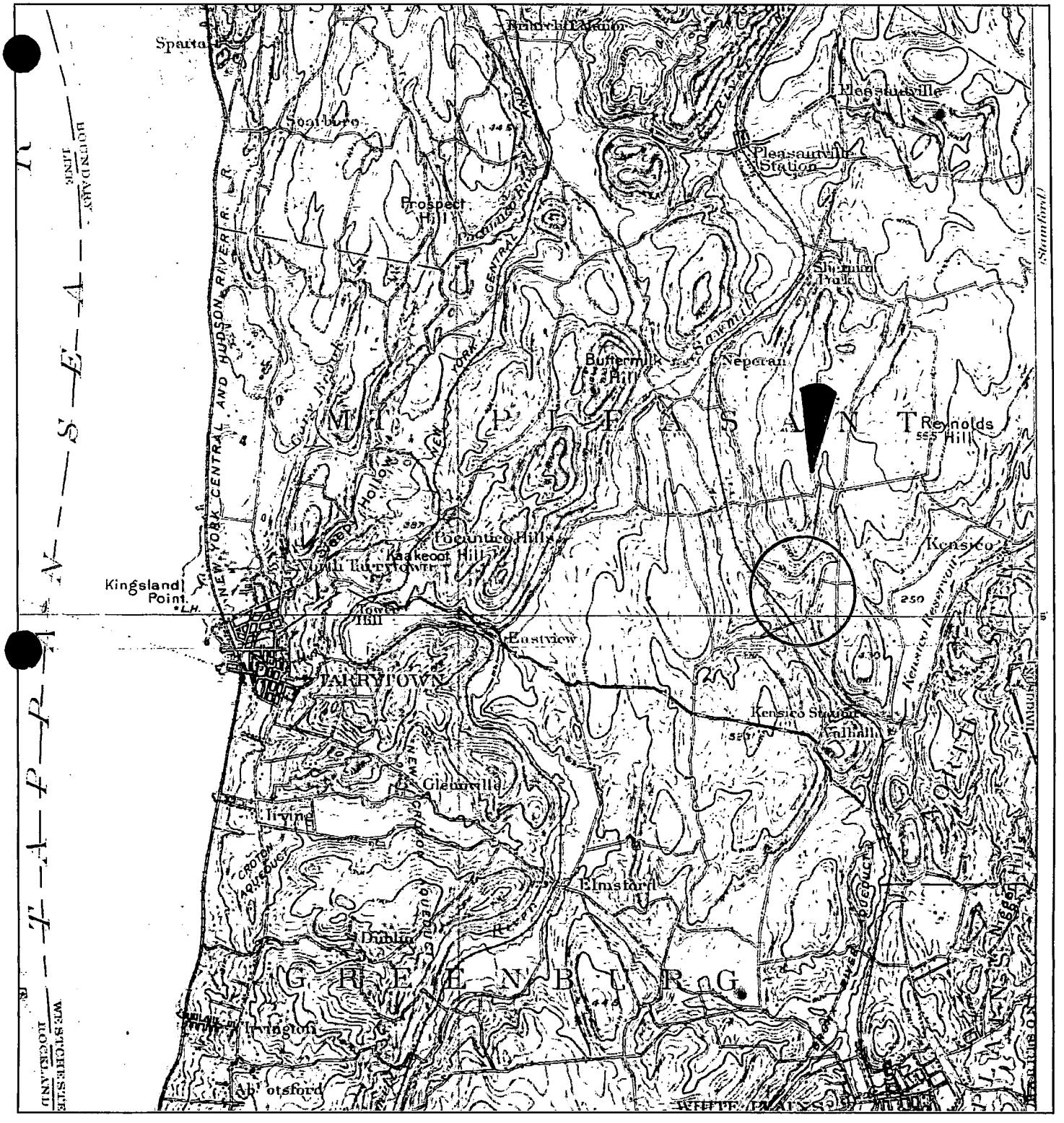
Appendix A

Historic Data Sources and Environmental Database Report

Historic Topographic Maps

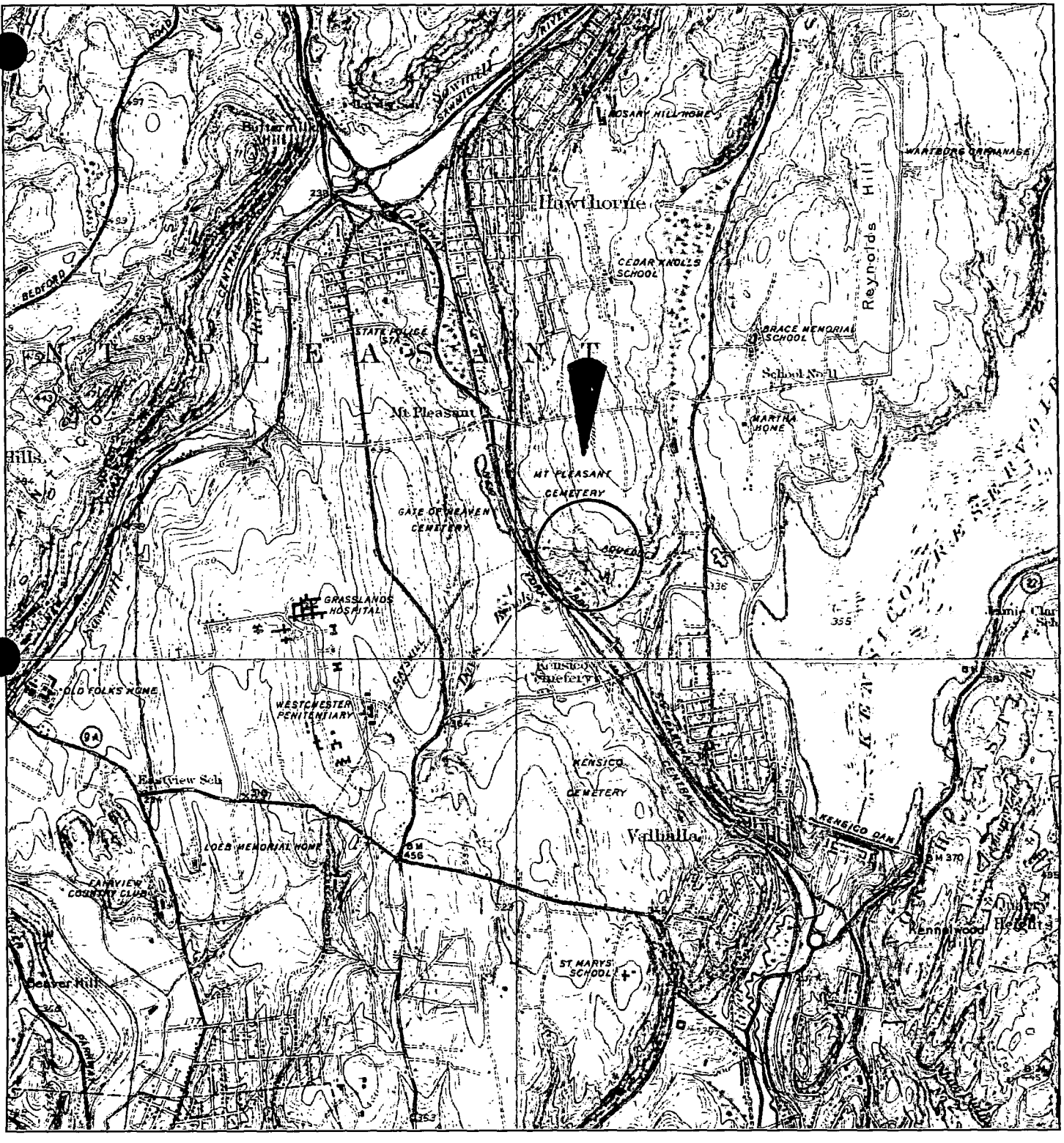
Apex Companies, LLC

Historical Topographic Map



N	TARGET QUAD NAME: TARRYTOWN MAP YEAR: 1902 SERIES: 15 SCALE: 1:62500	SITE NAME: 115 Wall Street ADDRESS: 115 Wall Street Valhalla, NY 10595 LAT/LONG: 41.0881 / 73.7878	CLIENT: APEX Companies LLC CONTACT: Greg Mendez-Chicas INQUIRY#: 2501979.4 RESEARCH DATE: 05/22/2009

Historical Topographic Map

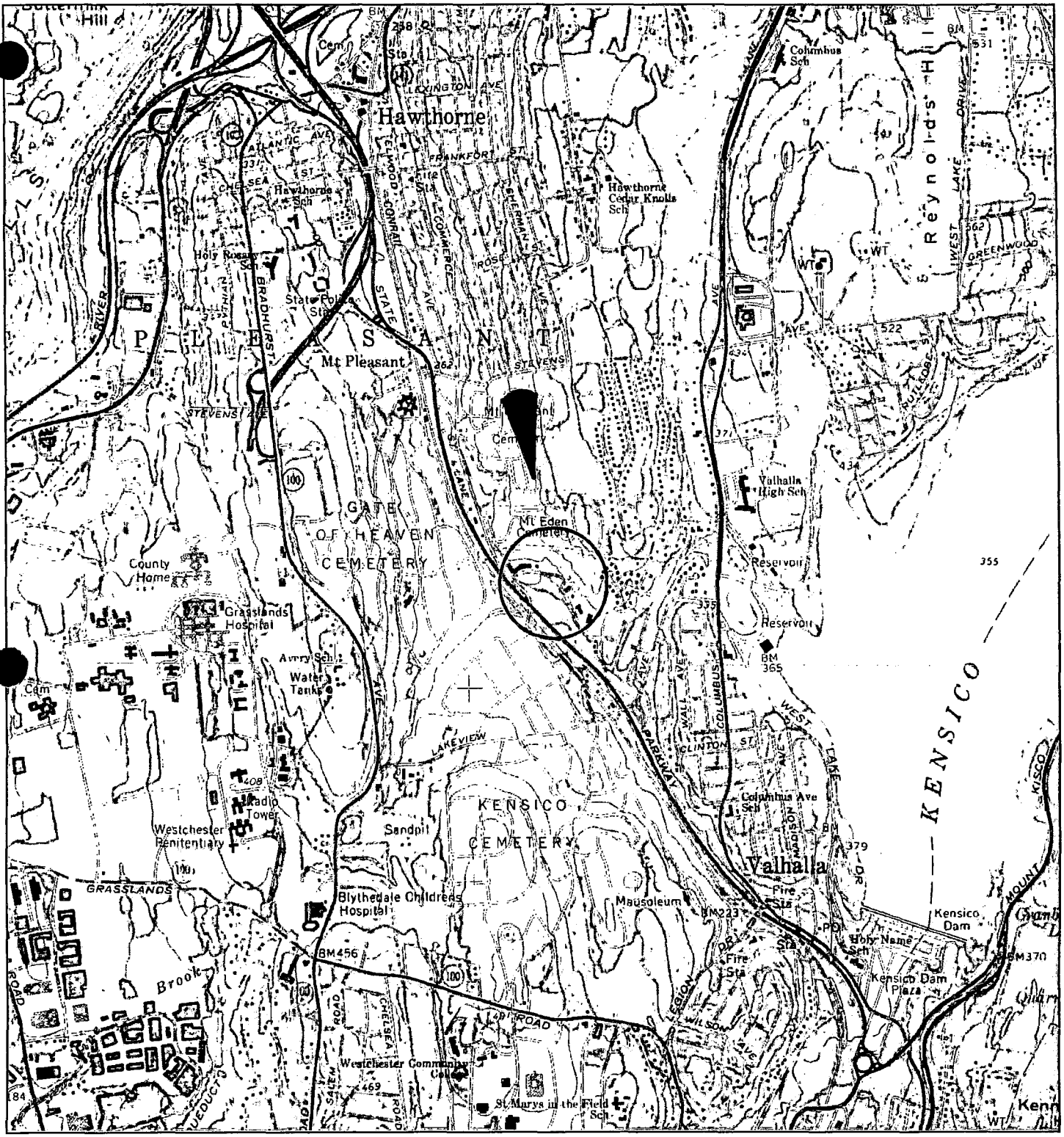


N	TARGET QUAD NAME: WHITE PLAINS MAP YEAR: 1938 SERIES: 7.5 SCALE: 1:31680	SITE NAME: 115 Wall Street ADDRESS: 115 Wall Street Valhalla, NY 10595 LAT/LONG: 41.0881 / 73.7878	CLIENT: APEX Companies LLC CONTACT: Greg Mendez-Chicas INQUIRY#: 2501979.4 RESEARCH DATE: 05/22/2009

Historical Topographic Map

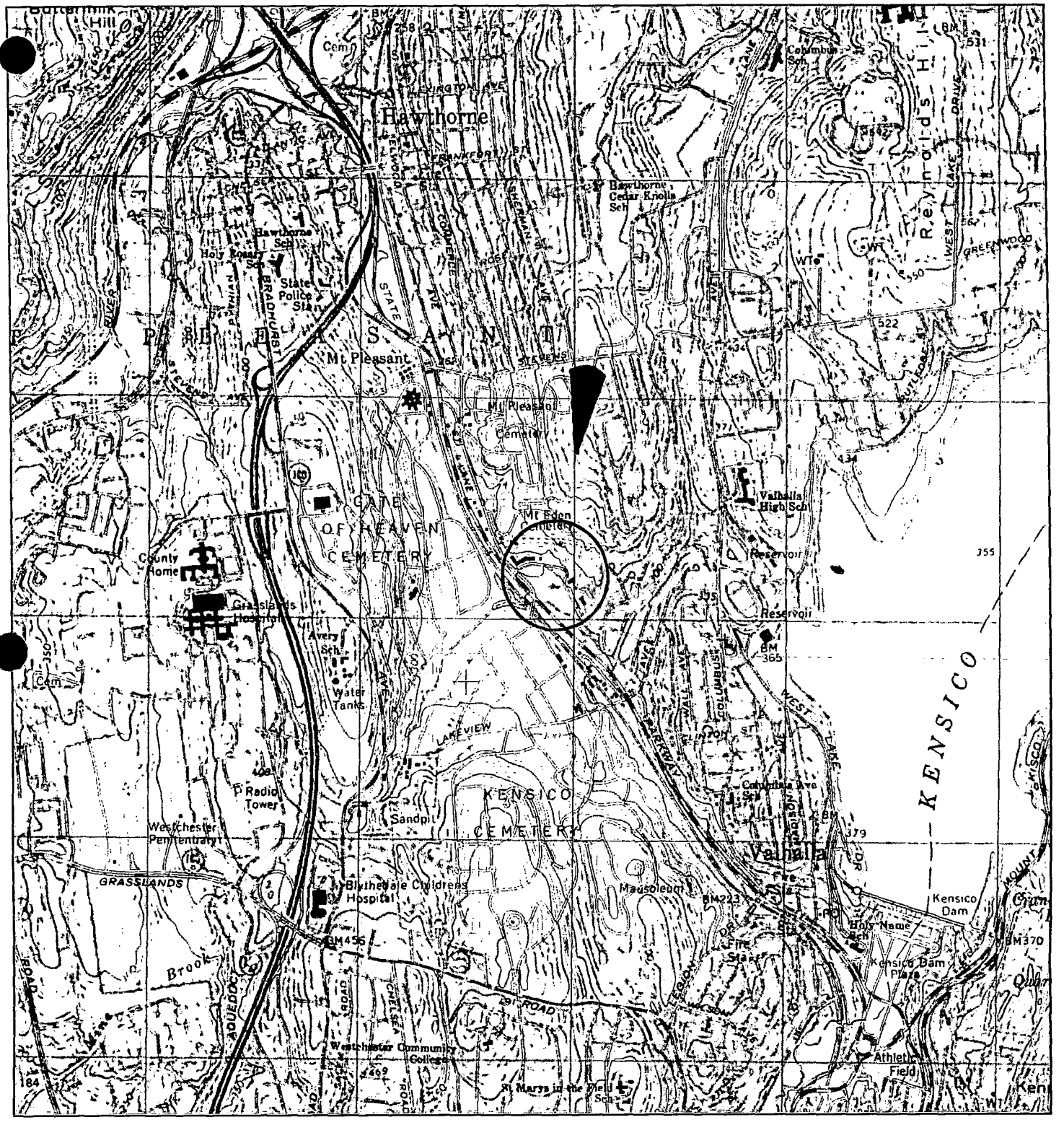
N	TARGET QUAD NAME: WHITE PLAINS MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 115 Wall Street ADDRESS: 115 Wall Street Valhalla, NY 10595 LAT/LONG: 41.0881 / 73.7878	CLIENT: APEX Companies LLC CONTACT: Greg Mendez-Chicas INQUIRY#: 2501979.4 RESEARCH DATE: 05/22/2009

Historical Topographic Map



N	TARGET QUAD NAME: WHITE PLAINS MAP YEAR: 1979 PHOTOREVISED FROM:1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 115 Wall Street ADDRESS: 115 Wall Street Valhalla, NY 10595 LAT/LONG: 41.0881 / 73.7878	CLIENT: APEX Companies LLC CONTACT: Greg Mendez-Chicas INQUIRY#: 2501979.4 RESEARCH DATE: 05/22/2009

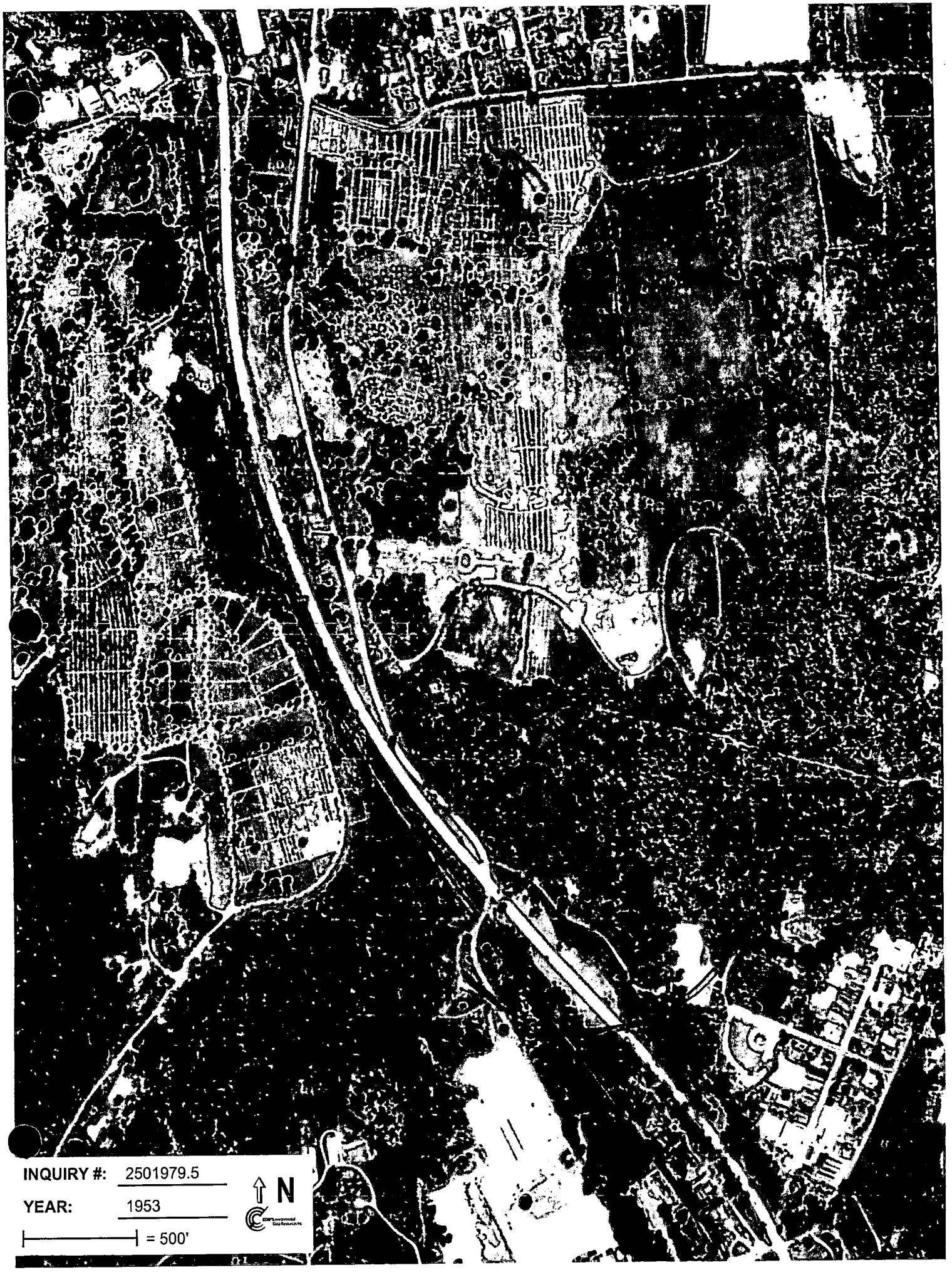
Historical Topographic Map



N	TARGET QUAD NAME: WHITE PLAINS MAP YEAR: 1994 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 115 Wall Street ADDRESS: 115 Wall Street Valhalla, NY 10595 LAT/LONG: 41.0881 / 73.7878	CLIENT: APEX Companies LLC CONTACT: Greg Mendez-Chicas INQUIRY#: 2501979.4 RESEARCH DATE: 05/22/2009

Historic Aerial Photographs

Apex Companies, LLC


INQUIRY #: 2501979.5
YEAR: 1953
= 500'
N


INQUIRY #: 2501979.5
YEAR: 1954
= 750'
N


INQUIRY #: 2501979.5
YEAR: 1964
= 750'
N


INQUIRY #: 2501979.5
YEAR: 1965
= 750'
N

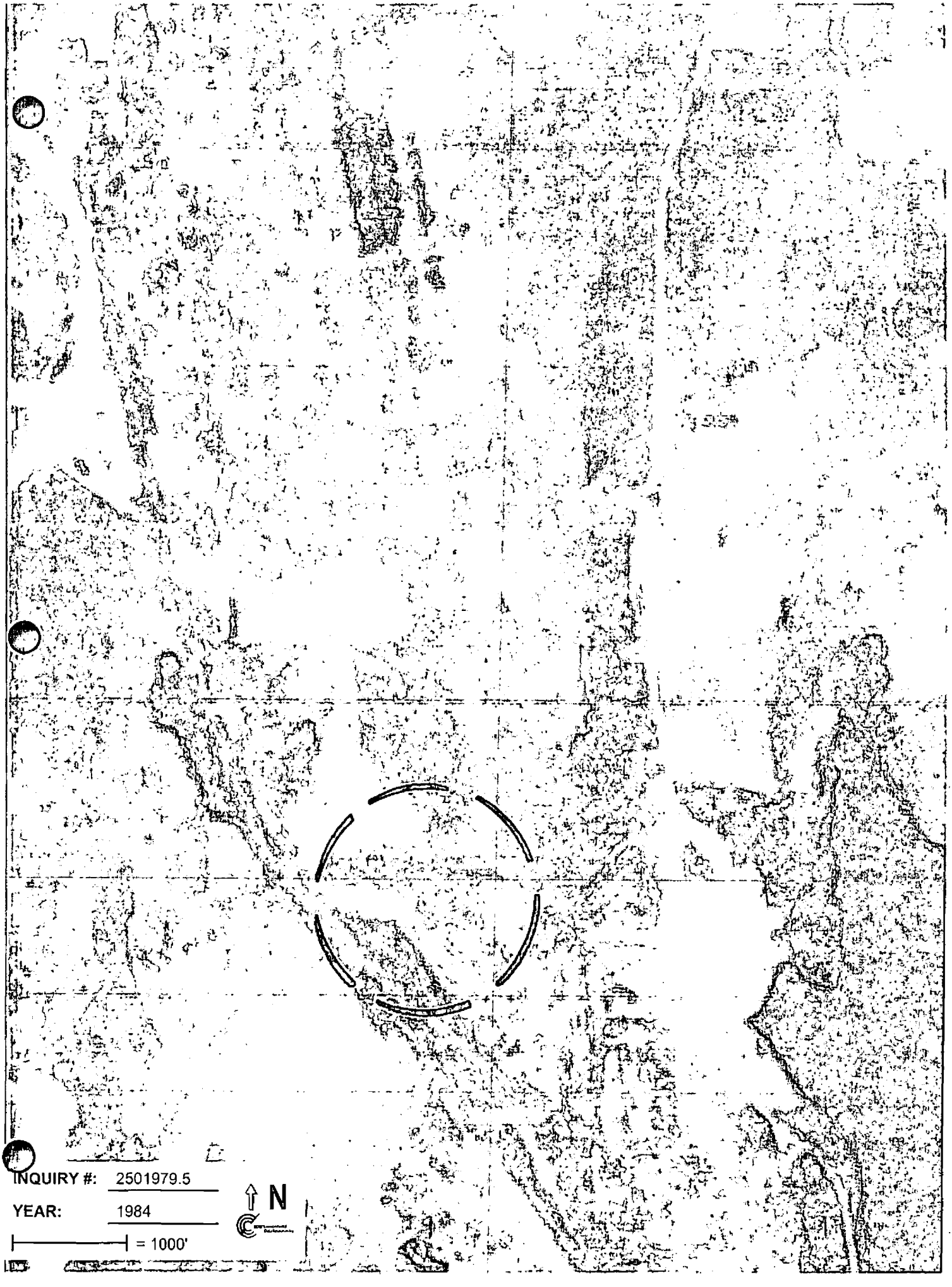

INQUIRY #: 2501979.5
YEAR: 1973
= 1000'
N

INQUIRY #: 2501979.5

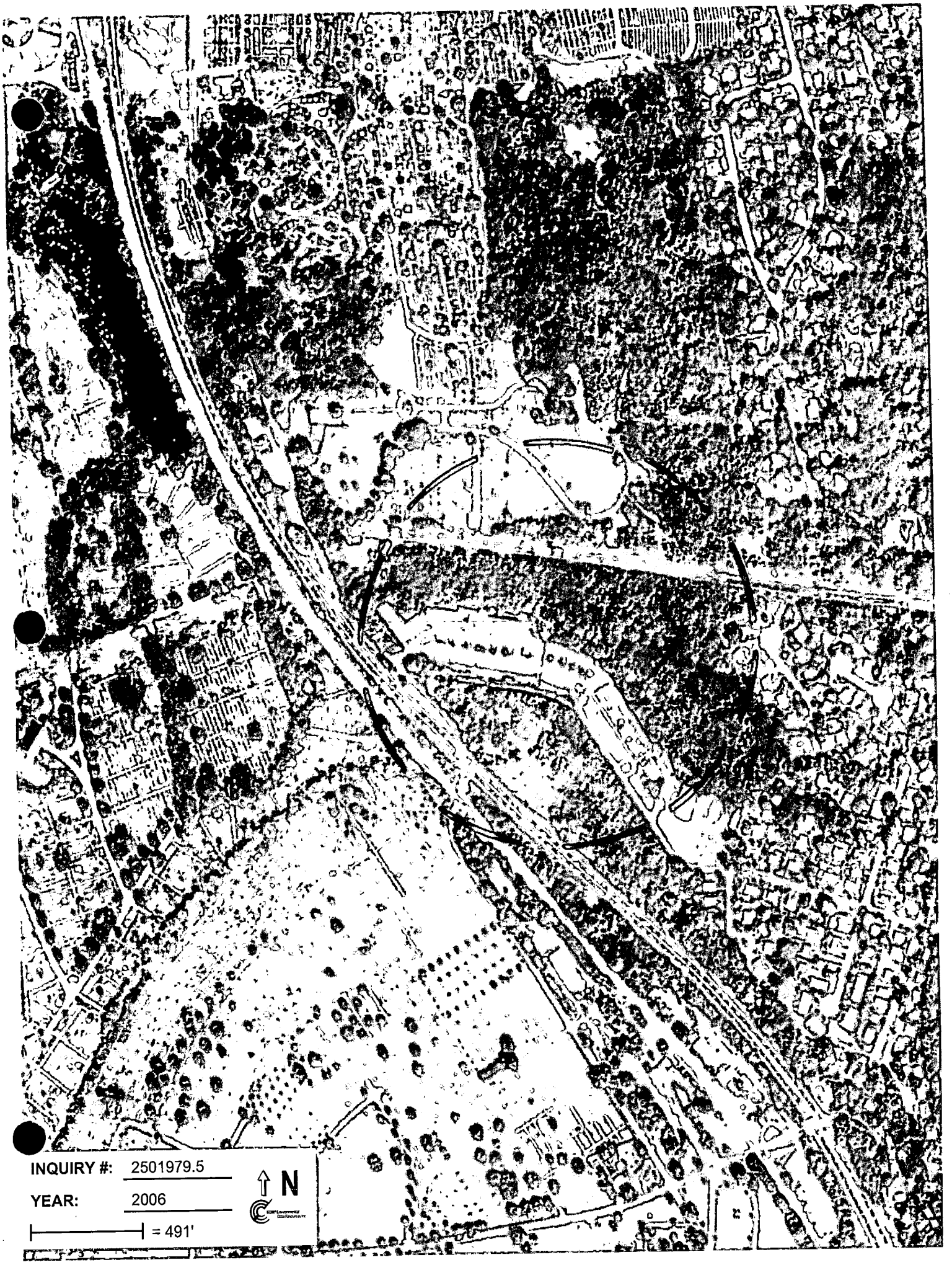
YEAR: 1974

= 750'

N


INQUIRY #: 2501979.5
YEAR: 1984
= 1000'
N


INQUIRY #: 2501979.5
YEAR: 1994
= 750'
N


INQUIRY #: 2501979.5
YEAR: 2006
= 491'
N

City Directory Search

Apex Companies, LLC

115 Wall Street
115 Wall Street
Valhalla, NY 10595

Inquiry Number: 2501979.6
June 03, 2009

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.

2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.

3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.

2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.

3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.

4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2007	Cole Criss-Cross Directory	X	X	X	-
2001	Cole Criss-Cross Directory	X	X	X	-
1997	Cole Criss-Cross Directory	X	X	X	-
1992	Cole Criss-Cross Directory	X	X	X	-
1987	Cole Criss-Cross Directory	X	X	X	-
1981	Cole Criss-Cross Directory	-	X	X	-
1976	Cole Criss-Cross Directory	-	X	X	-
1971	Cole Criss-Cross Directory	-	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

115 Wall Street
Valhalla, NY 10595

FINDINGS DETAIL

Target Property research detail.

Year	*Uses*	*Source*
2007	Select Telecom	Cole Criss-Cross Directory
	The Cliff	Cole Criss-Cross Directory
2001	Prdm II Valhalla Llc	Cole Criss-Cross Directory
1997	Del Electrncs Corp	Cole Criss-Cross Directory
1992	Ferrand Industries	Cole Criss-Cross Directory
1987	Ferrand Industries	Cole Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Wall Street

Wall Street

Year	Uses	Source
2007	No other addresses in range 48 - end of Wall St	Cole Criss-Cross Directory
2001	No other addresses in range 48 - end of Wall St	Cole Criss-Cross Directory
1997	No other addresses in range 48 - end of Wall St	Cole Criss-Cross Directory
1992	No other addresses in range 48 - end of Wall St	Cole Criss-Cross Directory
1987	No other addresses in range 48 - end of Wall St	Cole Criss-Cross Directory
1981	No other addresses in range 48 - end of Wall St	Cole Criss-Cross Directory
1976	No other addresses in range 48 - end of Wall St	Cole Criss-Cross Directory
1971	No other addresses in range 48 - end of Wall St	Cole Criss-Cross Directory

117 Wall Street

Year	Uses	Source
1987	Farrand Optcl Co	Cole Criss-Cross Directory
	Inductosyn Corp	Cole Criss-Cross Directory
1981	Farrand Optcl Co	Cole Criss-Cross Directory
	Inductosyn Corp	Cole Criss-Cross Directory
1976	Farrand Optcl Co	Cole Criss-Cross Directory
	Inductosyn Corp	Cole Criss-Cross Directory

48 Wall Street

Year	Uses	Source
2007	No Return	Cole Criss-Cross Directory
2001	No Return	Cole Criss-Cross Directory
1997	No Return	Cole Criss-Cross Directory
1992	Residential	Cole Criss-Cross Directory
1987	Residential	Cole Criss-Cross Directory
1981	Residential	Cole Criss-Cross Directory

FINDINGS

Year	Uses	Source
1976	Residential	Cole Criss-Cross Directory
1971	Residential	Cole Criss-Cross Directory

55 Wall Street

Year	Uses	Source
2007	Residential	Cole Criss-Cross Directory
2001	Residential	Cole Criss-Cross Directory
1997	Residential	Cole Criss-Cross Directory
1992	Residential	Cole Criss-Cross Directory
1987	Residential	Cole Criss-Cross Directory
1981	Residential	Cole Criss-Cross Directory
1976	Residential	Cole Criss-Cross Directory
1971	Residential	Cole Criss-Cross Directory

99 Wall Street

Year	Uses	Source
2007	Farrand Optical Components & Instrum	Cole Criss-Cross Directory
	Optical Technology Devices	Cole Criss-Cross Directory
	Ruhle Cos Inc Controls Div Farr	Cole Criss-Cross Directory
2001	Farrand Controls Div	Cole Criss-Cross Directory
1997	Farrand Controls Div	Cole Criss-Cross Directory
1992	Farrand Controls Div	Cole Criss-Cross Directory
	Holographic Optic	Cole Criss-Cross Directory
1987	Farrand Controls Div	Cole Criss-Cross Directory
1976	Farrand Contrls Inc	Cole Criss-Cross Directory
1971	Farrand Contrls Inc	Cole Criss-Cross Directory

FINDINGS

TARGET PROPERTY: ADDRESS NOT LISTED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not listed in the research source.

Address Researched	Address Not Listed in Research Source
115 Wall Street	1981, 1976, 1971

ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

Address Researched	Address Not Listed in Research Source
117 Wall Street	1971
99 Wall Street	1981

Sanborn Map Report

Apex Companies, LLC

115 Wall Street
115 Wall Street
Valhalla, NY 10595

Inquiry Number: 2501979.3
May 22, 2009

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

5/22/09

Site Name:
115 Wall Street
115 Wall Street
Valhalla, NY 10595

Client Name:
APEX Companies LLC
120 D Wilbur Place
Bohemia, NY 11716

EDR® Environmental Data Resources Inc

EDR Inquiry # 2501979.3

Contact: Greg Mendez-Chicas

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by APEX Companies LLC were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 115 Wall Street
Address: 115 Wall Street
City, State, Zip: Valhalla, NY 10595
Cross Street:
P.O. # 85144.001
Project: Diamond Propert
Certification # 9315-4075-B206

Sanborn® Library search results
Certification # 9315-4075-B206

Maps Provided:

1942

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

Limited Permission To Make Copies

APEX Companies LLC (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Certified Sanborn® Map Report Enhancements for 2009

The accompanying Certified Sanborn Map Report reflects a number of enhancements that make it easier for you to review these historical maps. EDR has digitally joined together the more than one million fire insurance maps from the Sanborn Library collection so that your target property is centered, making it easier for you to review adjoining properties. Here is a list of the new features:

· Your target property is centered on each map. You can quickly locate your target property and view adjoining properties. Plus, adjoining properties are included more often, reducing your need to refer to additional maps.

· All maps are now displayed at a uniform scale. This makes it easier for you to view changes to the property over time.

· We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.

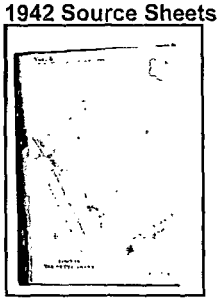
· A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

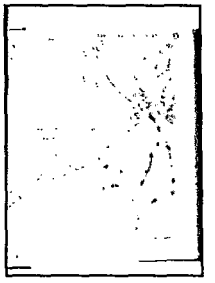
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

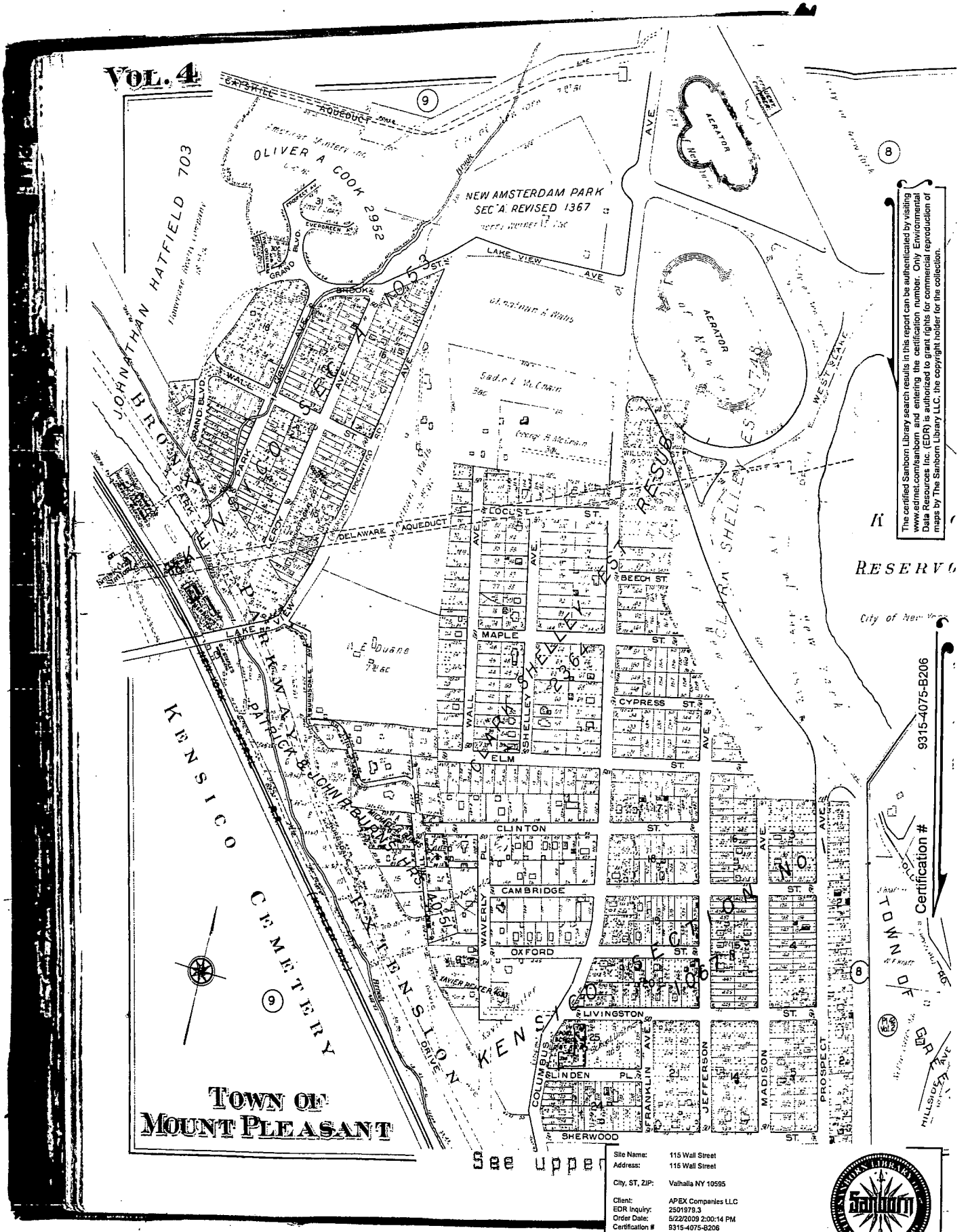
1942 Source Sheets



Volume 4, Sheet XXXX



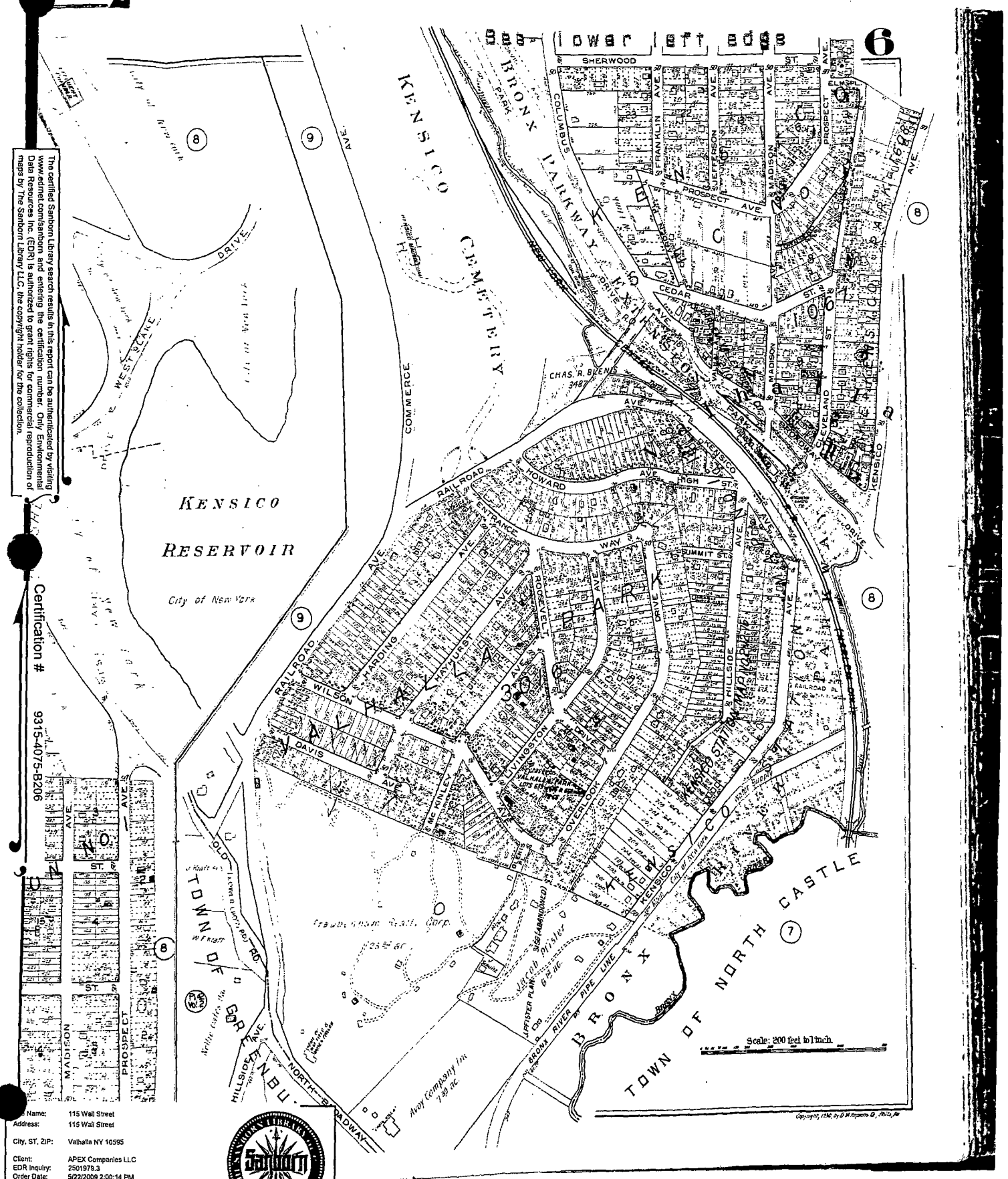
Volume 4, Sheet 6



Certification # 9315-4075-B206

Site Name:	115 Wall Street
Address:	115 Wall Street
City, ST, ZIP:	Valhalla NY 10595
Client:	APEX Companies LLC
EDR Inquiry:	2501979.3
Order Date:	5/22/2009 2:00:14 PM
Certification #	9315-4075-B206

Copyright: 1942

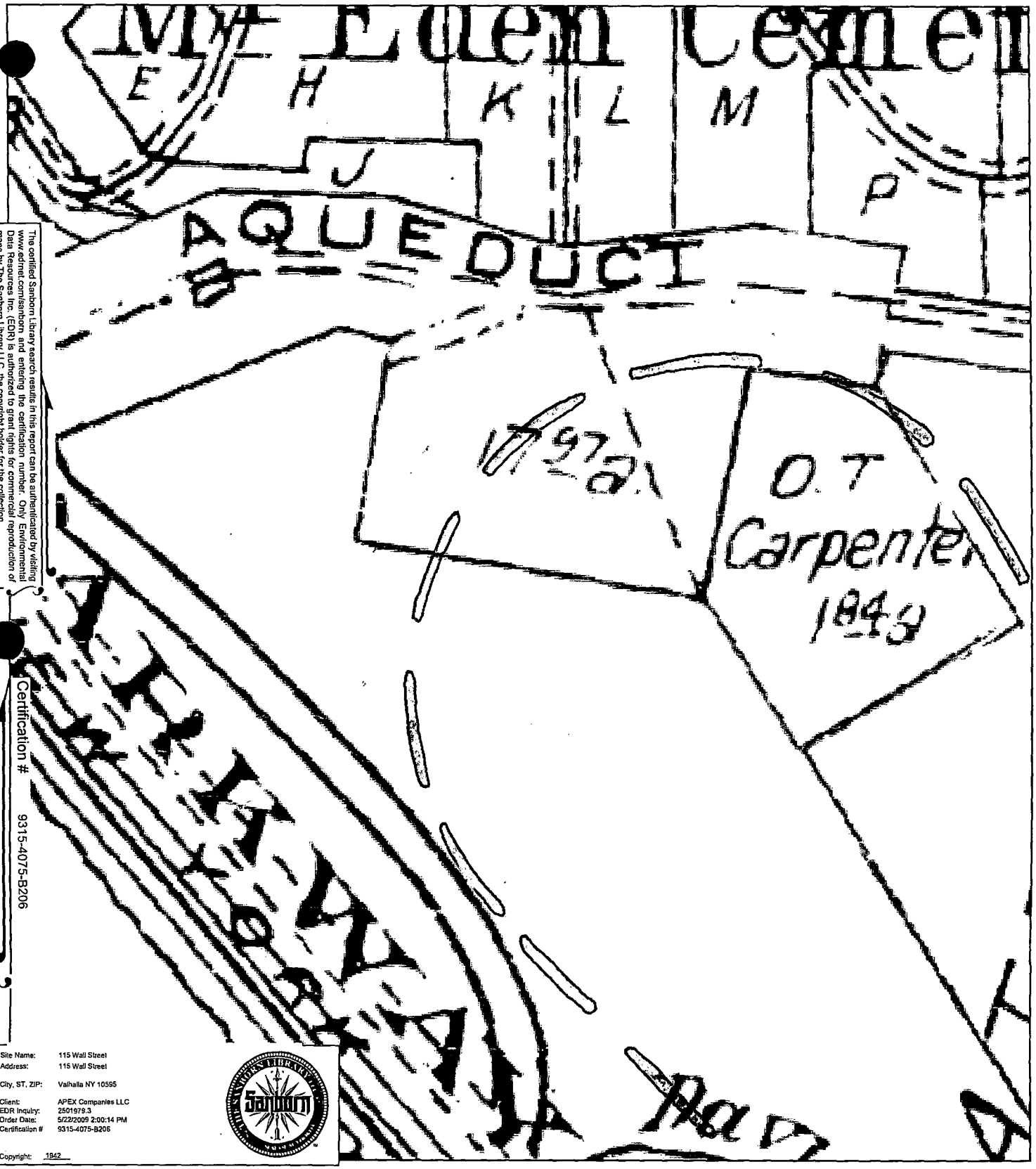


Certification # 9315-4075-B206

Name:	115 Wall Street
Address:	115 Wall Street
City, ST, ZIP:	Valhalla NY 10595
Client:	APEX Companies LLC
EDR Inquiry:	2501979.3
Order Date:	5/22/2009 2:00:14 PM
Certification #	9315-4075-B206

Copyright: 1942

1942 Certified Sanborn Map

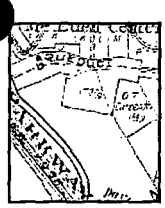


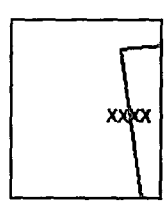
Certification # 9315-4075-B206

Site Name: 115 Wall Street
Address: 115 Wall Street
City, ST, ZIP: Valhalla NY 10595
Client: APEX Companies LLC
EDR Inquiry: 2501979.3
Order Date: 5/22/2009 2:00:14 PM
Certification #: 9315-4075-B206

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

0 Feet 150 300 600





Volume 4, Sheet XXXX
Volume 4, Sheet 6

N

Database Report

Apex Companies, LLC

115 Wall Street
115 Wall Street
Valhalla, NY 10595

Inquiry Number: 2511937.1s
June 04, 2009

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

115 WALL STREET
VALHALLA, NY 10595

COORDINATES

Latitude (North):	41.088100 - 41° 5' 17.2"
Longitude (West):	73.787800 - 73° 47' 16.1"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	601815.8
UTM Y (Meters):	4549033.0
Elevation:	266 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41073-A7 WHITE PLAINS, NY
Most Recent Revision:	1994

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2006, 2008
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
FARRIND CONTROL AREA 115-117 WALL ST VALHALLA, NY	NY Spills	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Transporters, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTRQLS..... Engineering Controls Sites List
US INST CONTRQL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Facility Register

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST..... Petroleum Bulk Storage (PBS) Database
CBS UST..... Chemical Bulk Storage Database
MOSF UST..... Major Oil Storage Facilities Database
AST..... Petroleum Bulk Storage
CBS AST..... Chemical Bulk Storage Database
MOSF AST..... Major Oil Storage Facilities Database
MOSF..... Major Oil Storage Facility Site Listing
CBS..... Chemical Bulk Storage Site Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Registry of Engineering Controis
INST CONTROL..... Registry of Institutional Controls
RES DECL..... Restrictive Declarations Listing

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Agreements
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

ERP..... Environmental Restoration Program Listing
BROWNFIELDS..... Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
SWTIRE..... Registered Waste Tire Storage & Facility List
SWRCY..... Registered Recycling Facility List
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
DEL SHWS..... Delisted Registry Sites

Local Lists of Registered Storage Tanks

HIST UST..... Historical Petroleum Bulk Storage Database
HIST AST..... Historical Petroleum Bulk Storage Database

Local Land Records

LIENS 2..... CERCLA Lien Information
LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
NY Hist Spills..... SPILLS Database

Other Ascertainable Records

DOT OPS..... Incident and Accident Data

EXECUTIVE SUMMARY

DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
HSWDS	Hazardous Substance Waste Disposal Site Inventory
DRYCLEANERS	Registered Drycleaners
NPDES	State Pollutant Discharge Elimination System
AIRS	Air Emissions Data
E DESIGNATION	E DESIGNATION SITE LISTING
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FARRAND CONTROLS	*99 WALL STREET*	*SE 1/8 - 1/4 (0.175 mi.)*	*A3*	*10*

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, and dated 03/10/2009 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FARRAND CONTROLS	*99 WALL STREET*	*SE 1/8 - 1/4 (0.175 mi.)*	*A3*	*10*

Class Code: Significant threat to the public health or environment - action required.

VAPOR REOPENED: "Vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying or adjacent buildings. The subsurface source can either be contaminated groundwater or contaminated soil which releases vapors into the pore spaces in the soil.Improvements in analytical techniques and knowledge gained from site investigations in New York and other states has led to an increased awareness of soil vapor as a medium of concern and of the potential for exposures from the soil vapor intrusion pathway. Based on this additional information, New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

A review of the VAPOR REOPENED list, as provided by EDR, and dated 02/11/2009 has revealed that there is 1 VAPOR REOPENED site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FARRAND CONTROLS	*99 WALL STREET*	*SE 1/8 - 1/4 (0.175 mi.)*	*A3*	*10*

State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking

underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 03/10/2009 has revealed that there are 17 LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FEDOR RESIDENCE Date Closed: 5/18/2004	33 COMMERCE ST	NW 1/4 - 1/2 (0.253 mi.)	8	44
BREHMER RESIDENCE Date Closed: 4/7/1999	***14 HOLLY RIDGE RD***	***ESE 1/4 - 1/2 (0.261 mi.)***	***9***	***45***
Not reported Date Closed: 1/24/2000	***11 LEROY AVE***	***ESE 1/4 - 1/2 (0.355 mi.)***	***13***	***53***
KENSICO CEMETARY Date Closed: 10/15/1997	***LAKE VIEW AVENUE***	***SSE 1/4 - 1/2 (0.393 mi.)***	***18***	***61***
HUGHES HOME	9 HIGHCLERE LANE	ENE 1/4 - 1/2 (0.448 mi.)	E19	64
Not reported Date Closed: 10/13/1998	***8 HIGHCLERE LANE***	***ENE 1/4 - 1/2 (0.448 mi.)***	***E20***	***65***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ADDEO Date Closed: 12/9/1998	***55 GRAND BLVD***	***SE 1/8 - 1/4 (0.249 mi.)***	***B5***	***37***
SOMER Date Closed: 11/2/1998	***51 GRAND BLVD***	***SE 1/4 - 1/2 (0.252 mi.)***	***B6***	***40***
PRIVATE RESIDENCE Date Closed: 11/8/2006	50 GRAND BLVD	SE 1/4 - 1/2 (0.252 mi.)	B7	42
Not reported Date Closed: 7/1/1999	***36 GRAND BLVD***	***SE 1/4 - 1/2 (0.267 mi.)***	***C10***	***48***
PRIVATE RESIDENCE Date Closed: 5/1/2008	55 WALL STREET	SE 1/4 - 1/2 (0.271 mi.)	C11	50
CURTO RES	2 PARK AVE	SE 1/4 - 1/2 (0.324 mi.)	12	52
MANCINI RESIDENCE Date Closed: 9/5/2003	59 LEROY AVE	SE 1/4 - 1/2 (0.379 mi.)	D14	56
MANCINI RESIDENCE Date Closed: 2/5/2003	59 LEROY AVE	SE 1/4 - 1/2 (0.379 mi.)	D15	57
Not reported Date Closed: 7/31/2003	57 LEROY AVE	SE 1/4 - 1/2 (0.379 mi.)	D16	58
Not reported Date Closed: 4/10/2003	57 LEROY AVENUE	SE 1/4 - 1/2 (0.379 mi.)	D17	60
Not reported Date Closed: 12/15/2003	187 LAKE VIEW AVENUE	SE 1/4 - 1/2 (0.451 mi.)	21	68

HIST LTANKS: A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database.

A review of the HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there

are 7 HIST LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BREHMER RESIDENCE	*14 HOLLY RIDGE RD*	*ESE 1/4 - 1/2 (0.261 mi.)*	*9*	*45*
Not reported	*11 LEROY AVE*	*ESE 1/4 - 1/2 (0.355 mi.)*	*13*	*53*
KENSICO CEMETARY	*LAKE VIEW AVENUE*	*SSE 1/4 - 1/2 (0.393 mi.)*	*18*	*61*
Not reported	*8 HIGHCLERE LANE*	*ENE 1/4 - 1/2 (0.448 mi.)*	*E20*	*65*
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
ADDEO	*55 GRAND BLVD*	*SE 1/8 - 1/4 (0.249 mi.)*	*B5*	*37*
SOMER	*51 GRAND BLVD*	*SE 1/4 - 1/2 (0.252 mi.)*	*B6*	*40*
Not reported	*36 GRAND BLVD*	*SE 1/4 - 1/2 (0.267 mi.)*	*C10*	*48*

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-NonGen site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FARRAND CONTROL DIV OF PUBLIC	99 WALL ST	SE 1/8 - 1/4 (0.175 mi.)	A2	8

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 01/27/2009 has revealed that there are 2 MANIFEST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FARRAND CONTROLS	*99 WALL STREET*	*SE 1/8 - 1/4 (0.175 mi.)*	*A3*	*10*
FARRAND CONTROLS	99 WALL STREET	SE 1/8 - 1/4 (0.175 mi.)	A4	35

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
AL SCADERA	MANIFEST
NYCDEP -MAHOPAC WWTP	MANIFEST, MANIFEST
NYSDOT BIN 1091032	FINDS, RCRA-NonGen, MANIFEST
NYSDOT BIN 5502092	MANIFEST
NYSDOT BIN 5502109	MANIFEST
NYSDOT BIN 1091031	MANIFEST
NYC DEP EASTVIEW LAB	MANIFEST, FINDS, RCRA-CESQG
NYSDOT VALHALLA RESIDENCY HEADQUARTERS	RCRA-SQG, MANIFEST
WESTCHESTER CO MEDICAL CT	LTANKS
BILL CUMINGS	LTANKS
BILL CUMINGS	LTANKS
RT 22 / OLD ORCHARD	LTANKS
BILL CUMINGS	LTANKS
VAHALLA CAMPUS	LTANKS, HIST LTANKS
KENSICO GARAGE	UST
KENSICO GARAGE	AST
NYSDOT BIN 5502109	FINDS, RCRA-NonGen
NYSDOT BIN 2038000	FINDS, RCRA-NonGen
NYCDEP-WALLKILL BLOW OFF CHAMBER	RCRA-NonGen
VALHALLA CORR.FACIL.FIELD	NY Spills, NY Hist Spills
WESTCHESTER COUNTY MEDICA	NY Spills, NY Hist Spills
WESTCHESTER CO JAIL	NY Spills, NY Hist Spills
KENSICO GARAGE	NY Spills, NY Hist Spills
NYC DEP	NY Spills, NY Hist Spills
NYC WATER SUPPLY	NY Spills, NY Hist Spills
DANARD / RT.9	NY Spills, NY Hist Spills
OLD SAWMILL RIVER ROAD	NY Spills
NYS DOT	NY Spills

OVERVIEW MAP - 2511937.1s

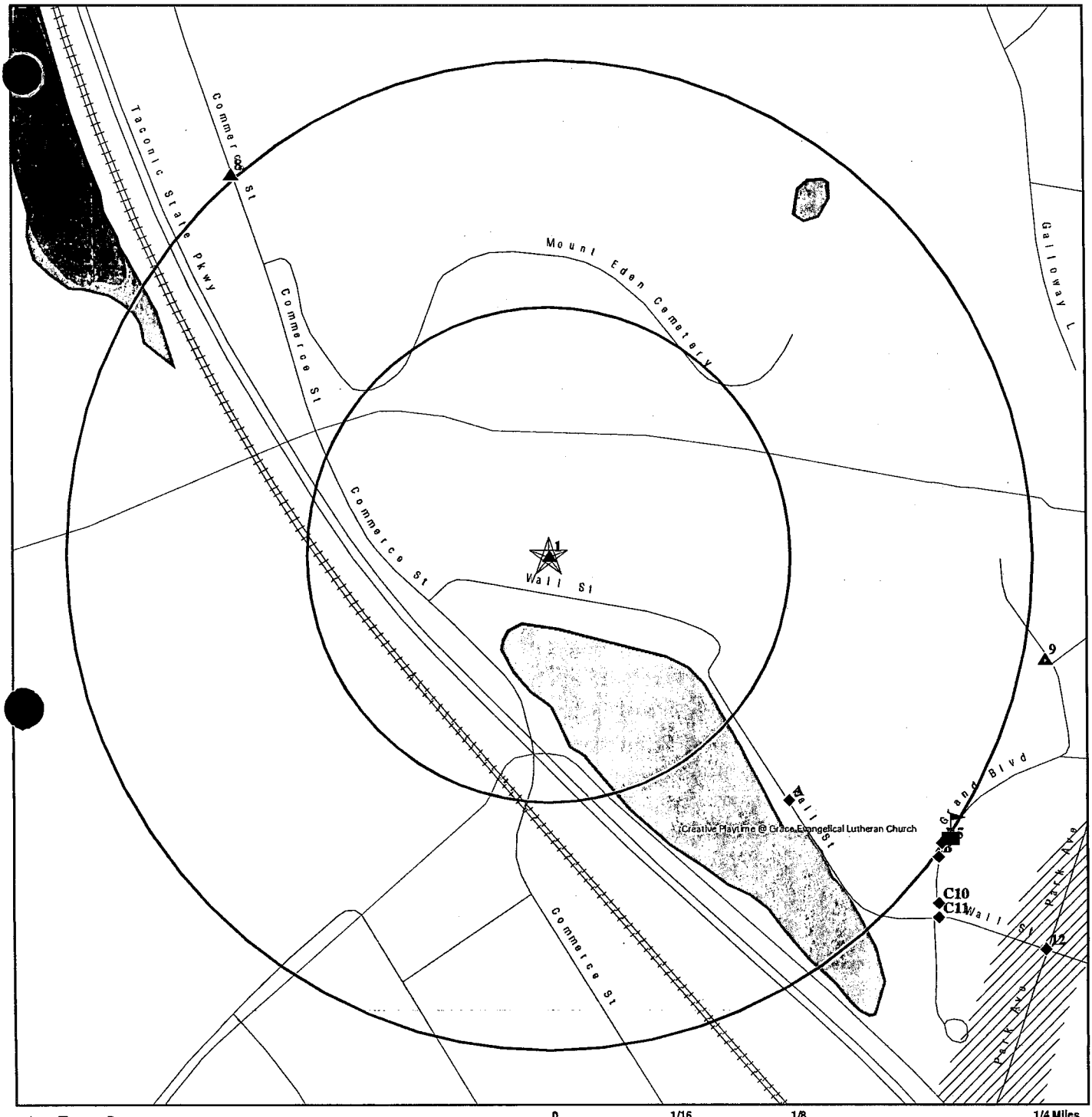
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 115 Wall Street
ADDRESS: 115 Wall Street
Valhalla NY 10595
LAT/LONG: 41.0881 / 73.7878

CLIENT: APEX Companies LLC
CONTACT: Greg Mendez-Chicas
INQUIRY #: 2511937.1s
DATE: June 04, 2009 4:55 pm

DETAIL MAP - 2511937.1s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 115 Wall Street	CLIENT: APEX Companies LLC
ADDRESS: 115 Wall Street Valhalla NY 10595	CONTACT: Greg Mendez-Chicas
LAT/LONG: 41.0881 / 73.7878	INQUIRY #: 2511937.1s DATE: June 04, 2009 4:57 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		0.500	0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS		1.000	0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS		1.000	0	1	0	0	NR	1
VAPOR REOPENED		1.000	0	1	0	0	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.500	0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LTANKS		0.500	0	1	16	NR	NR	17
HIST LTANKS		0.500	0	1	6	NR	NR	7
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CBS UST		0.250	0	0	NR	NR	NR	0
MOSF UST		0.500	0	0	0	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
CBS AST		0.250	0	0	NR	NR	NR	0
MOSF AST		0.500	0	0	0	NR	NR	0
MOSF		0.500	0	0	0	NR	NR	0
CBS		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS		0.500	0	0	0	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
RES DECL		0.125	0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
State and tribal Brownfields sites								
ERP		0.500	0	0	0	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
GDI		0.500	0	0	0	NR	NR	0
SWTIRE		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
DEL SHWS		1.000	0	0	0	0	NR	0
Local Lists of Registered Storage Tanks								
HIST UST		0.250	0	0	NR	NR	NR	0
HIST AST		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY Spills	X	0.125	0	NR	NR	NR	NR	0
NY Hist Spills		0.125	0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	0	1	NR	NR	NR	1
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
HSWDS		0.500	0	0	0	NR	NR	0
MANIFEST		0.250	0	2	NR	NR	NR	2
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
E DESIGNATION		0.125	0	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
Target
Property

FARRIND CONTROL AREA
115-117 WALL ST
VALHALLA, NY

NY Spills

S109372726
N/A

Actual:
266 ft.

NY Spills:

Site ID:	405547
Facility Addr2:	Not reported
Facility ID:	0808168
Spill Number:	0808168
Facility Type:	ER
SWIS:	5034
Investigator:	TDGHIOSA
Referred To:	Not reported
Spill Date:	10/21/2008
Reported to Dept:	10/21/2008
CID:	19
Spill Cause:	Abandoned Drums
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	Not Closed
Remediation Phase:	1
Date Entered In Computer:	10/21/2008
Spill Record Last Update:	10/31/2008
Spiller Name:	CARLOS TORRES
Spiller Company:	UNKNOWN
Spiller Address:	115-117 WALL ST
Spiller City,St,Zip:	VALHALLA, NY
Spiller Company:	999
Contact Name:	CARLOS TORRES
Contact Phone:	Not reported
DEC Region:	3
DER Facility ID:	354792

Material:

Site ID:	405547
Operable Unit ID:	1162168
Operable Unit:	01
Material ID:	2153397
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported

FARRIND CONTROL AREA (Continued) S109372726

Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

DEC Memo: 10-21-08 Carlos reports that drums contain what looks like used clean-up material. There is on odor of petroleum. Drums are stable and not leaking. Property owner contact is Mike Chillo(?) 914/760-5817. Todd responding. jc 10/21/08 Six drums left bythe garbage storage area for a commecial property. 10/22/08 Examined the contents of the drums with an environmental crime inspector. Several drums contained speedi dry, one drum contained oil absorbant sweeps (3), one drum contained sand bags loaded with concrete and broken glass, one contained yellow tyvek suits and gloves. Tri State Environmental collected samples for analysis for disposal purposes.

Remarks: Caller states they have 6 55gallon drums filled with used speedy dry, pads, and booms at above location.

A2 FARRAND CONTROL DIV OF PUBLIC CORP INC RCRA-NonGen 1010415678
SE 99 WALL ST NYD001390434
1/8-1/4 VALHALLA, NY 10595
0.175 mi.
924 ft. Site 1 of 3 in cluster A

Relative: Lower

Actual: 251 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: FARRAND CONTROL DIV OF PUBLIC CORP INC
Facility address: 99 WALL ST
VALHALLA, NY 10595
EPA ID: NYD001390434
Mailing address: WALL ST
VALHALLA, NY 10595
Contact: Not reported
Contact address: WALL ST
VALHALLA, NY 10595
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: FARRAND REALTY CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported

FARRAND CONTROL DIV OF PUBLIC CORP INC (Continued) 1010415678

Owner/Op end date: Not reported

Owner/operator name: FARRAND REALTY CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: FARRAND CONTROL DIV OF PUBLIC CORP INC
Classification: Not a generator, verified

Date form received by agency: 03/24/1995
Facility name: FARRAND CONTROL DIV OF PUBLIC CORP INC
Classification: Not a generator, verified

Date form received by agency: 07/29/1986
Facility name: FARRAND CONTROL DIV OF PUBLIC CORP INC
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: FR - various
Area of violation: Generators - General
Date violation determined: 07/10/2001
Date achieved compliance: 10/18/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/22/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported

FARRAND CONTROL DIV OF PUBLIC CORP INC (Continued) 1010415678

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 12/11/1987
Date achieved compliance: 02/22/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/28/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/10/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/18/2001
Evaluation lead agency: EPA

Evaluation date: 12/11/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/22/1988
Evaluation lead agency: State

A3
SE
1/8-1/4
0.175 mi.
924 ft.

Relative:
Lower

Actual:
251 ft.

FARRAND CONTROLS
99 WALL STREET
VALHALLA, NY 10595

Site 2 of 3 in cluster A

PADS 1000353599
SHWS NYD986988822
FINDS
MANIFEST
RCRA-CESQG
VAPOR REOPENED
MANIFEST

SHWS:
Program: HW
Site Code: 56087
Classification: SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region: 3
Acres: 6.000
HW Code: 360046
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 2/25/2009 10:00:00 AM
Updated By: DACROSBY
Site Description: The Farrand Controls site is located on Wall Street in Valhalla, Westchester County. The site consists of the main facility building and a large outbuilding which houses an enclosed tennis court. The total area of the site is approximately 6 acres.A wetland and pond lie to the west, between Wall Street and the Taconic State Parkway. A residential area adjoins the site on the south and a light industrial park is located to the north. The site is an active electronic component manufacturing facility which has operated at this location since 1959. Spent solvents (primarily TCE) were apparently historically released to the subsurface through a basement sump. The sump was cleaned and

FARRAND CONTROLS (Continued) 1000353599

the surrounding subsurface soils were removed by the ownerprior to DEC involvement. A source area of soil contaminated with Freon-113 was also identified during the RI near a catch basin adjacent to the main building. An RI/FS was completed in March 2002 under the State Superfund program. The Record of Decision selected hot spot removal of Freon-113 contaminated soils, subsurface injection of zero-valence iron powder for insitu groundwater remediation, and a short-term groundwater monitoring program. Pre-remedial design activities began in late 2004.A small-scale pilot test for the iron injection was conducted in late May 2005. Results of the pilot test were inconclusive, primarily due to its limited scope, resulting in insufficient data with which to proceed with design. A second pilot study starting in November 2008 and is presently ongoing. This larger scale iron injections pilot study is designed to address a larger area of the site and includes additional groundwater monitoring wells and a longer monitoring program. The Freon-sourcearea soil excavation was conducted in May 2008 and the Completion Report was approved in November 2008. (02/09)

Environmental Problems: The primary contaminants of concern are trichloroethene, 1,1,1-trichloroethane, Freon-113, dichloroethene, dichloroethane and vinyl chloride. The investigation identified a plume of groundwater contamination above standards that extends from the main building into the wetland and pond across Wall Street, with the heaviest concentrations occurring beneath the parking area near the southeast corner of the main building. A source area of soil contaminated with Freon-113 was addressed in May 2008.The cleanup reached the remedial action objectives and the catch basin and storm sewer piping was replaced. The site presents a significant threat to the environment associated due to the potential discharge of contaminated groundwater to surface water in the wetland and pond. (02/09)

Health Problems Assesment: Releases from the facility have resulted in on- and off-site groundwater contamination. Residences adjacent to the site receive public drinking water and to date no contamination has been detected in the public water supply. There are eight privatewells that serve commercial buildings located downgradient of the site. Sampling of these wells in January 1999 and February 2002 has not indicated impacts by the site. Soil contamination is at depth and does not present an exposure concern to the surrounding community. Additional investigations to determine the potential for soil vapor intrusion into structures on and near the site is currently underway.

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	unknown
Disp Term:	1992
Lat/Long:	41:05:13:0 / 73:47:07:0
Dell:	False
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	11/18/1999 12:00:00 PM
Updated By:	INITIAL
Own Op:	03
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	FARRAND CONTROLS
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	01
Sub Type:	NNN

FARRAND CONTROLS (Continued) **1000353599**

Owner Name:	Not reported
Owner Company:	Rhule Companies, Inc
Owner Address:	99 Wall Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Valhalla, NY 10595
Owner Country:	United States of America
Own Op:	04
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Farrand Controls
Owner Address:	99 Wall Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Valhalla, NY 10595
Owner Country:	United States of America
Own Op:	04
Sub Type:	E
Owner Name:	Not reported
Owner Company:	FARRAND CONTROLS
Owner Address:	99 WALL ST.
Owner Addr2:	Not reported
Owner City,St,Zip:	VALHALLA, NY 10595
Owner Country:	United States of America
Own Op:	01
Sub Type:	E
Owner Name:	FARRAND CONTROLS
Owner Company:	FARRAND CONTROLS
Owner Address:	99 WALL ST.
Owner Addr2:	Not reported
Owner City,St,Zip:	VALHALLA, NY 10595
Owner Country:	United States of America
HW Code:	360046
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	360046
Waste Type:	TRICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	360046
Waste Type:	1,1,1-TRICHLOROETHANE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	360046
Waste Type:	FREON-113
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

FINDS:
Other Pertinent Environmental Activity Identified at Site

Registry ID: 110004334293

FARRAND CONTROLS (Continued) **1000353599**

Not reported

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD001390434
Facility Name:	EDDY MESSENGER COMPANY
Facility Address:	117 WALL STREET
Facility City:	VALHALLA
Facility Address 2:	Not reported
Country:	USA
Mailing Name:	EDDY MESSENGER COMPANY
Mailing Contact:	EDDY MESSENGER COMPANY
Mailing Address:	117 WALL STREET
Mailing Address 2:	Not reported
Mailing City:	VALHALLA
Mailing State:	NY
Mailing Zip:	10595
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	914-428-6800

Document ID:	NYC7683974
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD986607380
Generator Ship Date:	08/17/2005
Trans1 Recv Date:	08/17/2005
Trans2 Recv Date:	08/25/2005
TSD Site Recv Date:	08/29/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	NYDF9495
Trans2 EPA ID:	Not reported
TSDF ID:	KYD053348108
Waste Code:	F003 - UNKNOWN
Quantity:	00208
Units:	P - Pounds
Number of Containers:	002

FARRAND CONTROLS (Continued) 1000353599

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00450
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	01.00
Waste Code:	Not reported
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	Not reported
Year:	Not reported
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	PAB5746160
Manifest Status:	Completed copy
Trans1 State ID:	PA-AH0139
Trans2 State ID:	Not reported
Generator Ship Date:	890706
Trans1 Recv Date:	890706
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890706
Part A Recv Date:	890712
Part B Recv Date:	890727
Generator EPA ID:	NYD001390434
Trans1 EPA ID:	PAD085690592
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00007
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00012
Units:	P - Pounds
Number of Containers:	001

FARRAND CONTROLS (Continued) 1000353599

Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00037
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00050
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	00103
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	89
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	PAB5746160
Manifest Status:	Completed copy
Trans1 State ID:	PA-AH0139
Trans2 State ID:	Not reported
Generator Ship Date:	890706
Trans1 Recv Date:	890706
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890706
Part A Recv Date:	890712
Part B Recv Date:	890727
Generator EPA ID:	NYD001390434

FARRAND CONTROLS (Continued) **1000353599**

Trans1 EPA ID:	PAD085690592
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00002
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00103
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00002
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	89
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTF0476038
Manifest Status:	Completed copy
Trans1 State ID:	ILP39038
Trans2 State ID:	Not reported
Generator Ship Date:	951212
Trans1 Recv Date:	951212
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	951214
Part A Recv Date:	951220
Part B Recv Date:	951227
Generator EPA ID:	NYD986988822

FARRAND CONTROLS (Continued) **1000353599**

Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	CTD001156009
Waste Code:	F003 - UNKNOWN
Quantity:	00380
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	MAJ2808130
Manifest Status:	Completed copy
Trans1 State ID:	12365MA
Trans2 State ID:	Not reported
Generator Ship Date:	951025
Trans1 Recv Date:	951025
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	951026
Part A Recv Date:	951103
Part B Recv Date:	951106
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	MAD000604447
Trans2 EPA ID:	Not reported
TSDF ID:	MAD000604447
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	95
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported

FARRAND CONTROLS (Continued) **1000353599**

Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NJA0623150
Manifest Status: Completed copy
Trans1 State ID: NJDEPS847
Trans2 State ID: Not reported
Generator Ship Date: 890606
Trans1 Recv Date: 890606
Trans2 Recv Date: Not reported
TSD Site Recv Date: 890606
Part A Recv Date: 890613
Part B Recv Date: 890619
Generator EPA ID: NYD001390434
Trans1 EPA ID: NJD981489909
Trans2 EPA ID: Not reported
TSDF ID: NJD065825341
Waste Code: F003 - UNKNOWN
Quantity: 00275
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 89
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NJA0600620
Manifest Status: Completed copy
Trans1 State ID: NJDEPS847
Trans2 State ID: NJDEPS847
Generator Ship Date: 890503
Trans1 Recv Date: 890503
Trans2 Recv Date: 890509
TSD Site Recv Date: 890503
Part A Recv Date: 890510
Part B Recv Date: 890523
Generator EPA ID: NYD001390434
Trans1 EPA ID: NJD981489909
Trans2 EPA ID: NJD981489909
TSDF ID: NJD065825341
Waste Code: F001 - UNKNOWN
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)

FARRAND CONTROLS (Continued) **1000353599**

Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	PAC0380041
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	890720
Trans1 Recv Date:	890720
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890720
Part A Recv Date:	890808
Part B Recv Date:	890802
Generator EPA ID:	NYD001390434
Trans1 EPA ID:	PAD085690592
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	D011 - SILVER 5.0 MG/L TCLP
Quantity:	00003
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00028
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	89
Manifest Tracking Num:	Not reported
Import Ind:	Not reported

FARRAND CONTROLS (Continued) 1000353599

Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NJA0562934
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	NJDEPF869
Generator Ship Date:	890811
Trans1 Recv Date:	890811
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890815
Part A Recv Date:	890814
Part B Recv Date:	890824
Generator EPA ID:	NYD001390434
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	F003 - UNKNOWN
Quantity:	00372
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00636
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	89
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	MAG5946830
Manifest Status:	Completed copy

FARRAND CONTROLS (Continued) **1000353599**

Trans1 State ID:	16428MASS
Trans2 State ID:	Not reported
Generator Ship Date:	920929
Trans1 Recv Date:	920929
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920930
Part A Recv Date:	Not reported
Part B Recv Date:	921019
Generator EPA ID:	NYD001390434
Trans1 EPA ID:	MAD000604447
Trans2 EPA ID:	Not reported
TSDF ID:	MAD000604447
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00165
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTF0320823
Manifest Status:	Completed copy
Trans1 State ID:	GP2381NY
Trans2 State ID:	507TYJ
Generator Ship Date:	950828
Trans1 Recv Date:	950828
Trans2 Recv Date:	950831
TSD Site Recv Date:	950831
Part A Recv Date:	950911
Part B Recv Date:	950921
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ILD984908202
TSDF ID:	CTD001156009
Waste Code:	F003 - UNKNOWN
Quantity:	00380
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95
Manifest Tracking Num:	Not reported

FARRAND CONTROLS (Continued) **1000353599**

Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NJA2797184
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCD987574647
Generator Ship Date:	05/20/1999
Trans1 Recv Date:	05/20/1999
Trans2 Recv Date:	05/24/1999
TSD Site Recv Date:	05/27/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	NJD002182897
Trans2 EPA ID:	Not reported
TSDF ID:	08690
Waste Code:	F003 - UNKNOWN
Quantity:	00760
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NJA1343331
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	NJDEPS103
Generator Ship Date:	920805
Trans1 Recv Date:	920805
Trans2 Recv Date:	920812
TSD Site Recv Date:	920812

FARRAND CONTROLS (Continued) 1000353599

Part A Recv Date:	Not reported
Part B Recv Date:	920826
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	NJD000813477
TSDF ID:	NJD002182897
Waste Code:	F003 - UNKNQWN
Quantity:	00380
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	CTF0140722
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPES86
Trans2 State ID:	Not reported
Generator Ship Date:	930120
Trans1 Recv Date:	930120
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930121
Part A Recv Date:	930129
Part B Recv Date:	930203
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	CTD001156009
Waste Code:	F001 - UNKNOWN
Quantity:	00605
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported

FARRAND CONTROLS (Continued) **1000353599**

Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NJA2254191
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	P39038
Trans2 State ID:	Not reported
Generator Ship Date:	960820
Trans1 Recv Date:	960820
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960827
Part A Recv Date:	960905
Part B Recv Date:	960919
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	F003 - UNKNQWN
Quantity:	00380
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	MAJ2716800
Manifest Status:	Completed copy
Trans1 State ID:	MA25819
Trans2 State ID:	Not reported
Generator Ship Date:	960624
Trans1 Recv Date:	960624
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960625
Part A Recv Date:	960731
Part B Recv Date:	960712
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	MAD000604447
Trans2 EPA ID:	Not reported
TSDF ID:	MAD000604447

FARRAND CONTROLS (Continued) 1000353599

Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	96
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYC6929403
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	Not reported
Generator Ship Date:	12/06/2002
Trans1 Recv Date:	12/06/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/11/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	KYD053348108
Trans2 EPA ID:	Not reported
TSDF ID:	NYDW9495
Waste Code:	F003 - UNKNQWN
Quantity:	00222
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	02
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

FARRAND CONTROLS (Continued) **1000353599**

Document ID:	NYC6835296
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	NJD071629976
Generator Ship Date:	07/25/2002
Trans1 Recv Date:	07/25/2002
Trans2 Recv Date:	07/31/2002
TSD Site Recv Date:	08/05/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986988622
Trans1 EPA ID:	KYD053348108
Trans2 EPA ID:	Not reported
TSDF ID:	NYDW9495
Waste Code:	F003 - UNKNOWN
Quantity:	00330
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	02
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYC6723077
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	NJD071629976
Generator Ship Date:	09/25/2002
Trans1 Recv Date:	09/25/2002
Trans2 Recv Date:	10/01/2002
TSD Site Recv Date:	10/02/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	KYD053348108
Trans2 EPA ID:	Not reported
TSDF ID:	NYDW9495
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00458
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00

FARRAND CONTROLS (Continued) **1000353599**

Year:	02
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NJA0700147
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPF869
Trans2 State ID:	NJDEPS869
Generator Ship Date:	900314
Trans1 Recv Date:	900314
Trans2 Recv Date:	900314
TSD Site Recv Date:	900315
Part A Recv Date:	900402
Part B Recv Date:	900410
Generator EPA ID:	NYD001390434
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	ILD051060408
TSDF ID:	NJD002182897
Waste Code:	F001 - UNKNOWN
Quantity:	00637
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00760
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	90
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

FARRAND CONTROLS (Continued) **1000353599**

Click this hyperlink while viewing on your computer to access
48 additional NY_MANIFEST: record(s) in the EDR Site Report.

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: FARRAND CONTROLS DIVISION
Facility address: 99 WALL ST
VALHALLA, NY 10595
EPA ID: NYD986988822
Mailing address: WALL ST
VALHALLA, NY 10595
Contact: PAUL VALANTI
Contact address: WALL ST
VALHALLA, NY 10595
Contact country: US
Contact telephone: (914) 761-2600
Contact email: Not reported
EPA Region: 02
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: RUHLE CO INC
Owner/operator address: 99 WALL ST
VALHALLA, NY 10595
Owner/operator country: US
Owner/operator telephone: (914) 761-2600
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: RUHLE CO INC
Owner/operator address: 99 WALL ST
VALHALLA, NY 10595
Owner/operator country: US
Owner/operator telephone: (914) 761-2600
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

FARRAND CONTROLS (Continued) **1000353599**

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
- U.S. importer of hazardous waste: Unknown
- Mixed waste (haz. and radioactive): Unknown
- Recycler of hazardous waste: No
- Transporter of hazardous waste: Unknown
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: Unknown
- Furnace exemption: Unknown
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No
- Off-site waste receiver: Commercial status unknown

Historical Generators:
- Date form received by agency: 01/01/2006
- Facility name: FARRAND CONTROLS DIVISION
- Classification: Conditionally Exempt Small Quantity Generator

- Date form received by agency: 02/19/1992
- Facility name: FARRAND CONTROLS DIVISION
- Site name: FARRAND CONTROLS DIV OF RUHL COMPANIES,
- Classification: Large Quantity Generator

- Date form received by agency: 01/30/1992
- Facility name: FARRAND CONTROLS DIVISION
- Classification: Conditionally Exempt Small Quantity Generator

Facility Has Received Notices of Violations:
- Regulation violated: Not reported
- Area of violation: Generators - General
- Date violation determined: 07/10/2001
- Date achieved compliance: 10/18/2001
- Violation lead agency: EPA
  - Enforcement action: WRITTEN INFORMAL
  - Enforcement action date: 10/22/2001
  - Enf. disposition status: Not reported
  - Enf. disp. status date: Not reported
  - Enforcement lead agency: EPA
  - Proposed penalty amount: Not reported
  - Final penalty amount: Not reported
  - Paid penalty amount: Not reported

- Regulation violated: Not reported
- Area of violation: Generators - General
- Date violation determined: 07/10/2001
- Date achieved compliance: 10/18/2001
- Violation lead agency: EPA
  - Enforcement action: WRITTEN INFORMAL
  - Enforcement action date: 08/16/2001
  - Enf. disposition status: Not reported

FARRAND CONTROLS (Continued) **1000353599**

Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/10/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/18/2001
Evaluation lead agency: EPA

VAPOR REOPENED:
Site Code: 360046
Facility Status: Underway

CT MANIFEST:
Manifest No: Not reported
Waste Occurence: Not reported
UNNA: Not reported
Hazard Class: Not reported
US Dot Description: Not reported
No of Containers: Not reported
Container Type: Not reported
Ouantity: Not reported
Weight/Volume: Not reported
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: Not reported
DEO Who Last Modified Record: Not reported
Manifest No: Not reported
Waste Occurence: Not reported
EPA Waste Code: Not reported
Recycled Waste?: Not reported
Date Record Was Last Modified: Not reported
DEO Who Last Modified Record: Not reported
Year: 1995
Manifest ID: CTF0477158
TSDF EPA ID: CTD001156009
TSDF Name: SAFETY-KLEEN CORP.
TSDF Address: 39 COMMUNITY AVE EXT.
TSDF City,St,Zip: PLAINFIELD, CT 06374
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 04/06/95
Transporter EPA ID: ILD984908202
Transporter Name: SAFETY-KLEEN CORP.
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported

FARRAND CONTROLS (Continued) 1000353599

Generator EPA ID:	NYD986988822
Gererator Phone:	9147612600
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Not reported
Discrepancies:	Yes
Date Shipped:	04/06/95
Date Received:	04/06/95
Last modified date:	04/26/04
Last modified by:	IG
Comments:	Not reported
Year:	1995
Manifest ID:	CTF0320823
TSDF EPA ID:	CTD001156009
TSDF Name:	SAFETY-KLEEN CORP.
TSDF Address:	39 COMMUNITY AVE EXT.
TSDF City,St,Zip:	PLAINFIELD, CT 06374
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	08/28/95
Transporter EPA ID:	ILD984908202
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	08/31/95
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	SAFETY-KLEEN CORP.
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD986988822
Gererator Phone:	9147612600
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Not reported
Discrepancies:	Yes
Date Shipped:	08/28/95
Date Received:	08/31/95
Last modified date:	04/26/04
Last modified by:	IG
Comments:	Not reported
Year:	1994
Manifest ID:	CTF0331984
TSDF EPA ID:	CTD001156009
TSDF Name:	SAFETY-KLEEN CORP.
TSDF Address:	39 COMMUNITY AVE EXT.
TSDF City,St,Zip:	PLAINFIELD, CT 06374
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	07/22/94
Transporter EPA ID:	ILD984908202
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported

FARRAND CONTROLS (Continued) **1000353599**

Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD986988822
Gererator Phone:	9147612600
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	Yes
Date Shipped:	07/22/94
Date Received:	07/26/94
Last modified date:	04/26/04
Last modified by:	IG
Comments:	Not reported
Year:	1993
Manifest ID:	CTF0231386
TSDF EPA ID:	CTD001156009
TSDF Name:	SAFETY-KLEEN CORP.
TSDF Address:	785 NORWICH AVENUE
TSDF City,St,Zip:	PLAINFIELD, CT 06374
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	09/01/93
Transporter EPA ID:	ILD984908202
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD986988822
Gererator Phone:	9147612600
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	Yes
Date Shipped:	09/01/93
Date Received:	09/02/93
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported
Year:	1993
Manifest ID:	CTF0314057
TSDF EPA ID:	CTD001156009
TSDF Name:	SAFETY-KLEEN CORP.
TSDF Address:	785 NORWICH AVENUE
TSDF City,St,Zip:	PLAINFIELD, CT 06374

FARRAND CONTROLS (Continued) 1000353599

TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	11/04/93
Transporter EPA ID:	ILD984908202
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	11/04/93
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	SAFETY-KLEEN CORP.
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD986988822
Gererator Phone:	9147612600
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	Yes
Date Shipped:	11/04/93
Date Received:	11/05/93
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported
Year:	1993
Manifest ID:	CTF0140722
TSDF EPA ID:	CTD001156009
TSDF Name:	SAFETY-KLEEN CORP.
TSDF Address:	785 NORWICH AVENUE
TSDF City,St,Zip:	PLAINFIELD, CT 06374
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	01/20/93
Transporter EPA ID:	ILD051060408
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD986988822
Gererator Phone:	9147612600
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	01/20/93
Date Received:	01/21/93
Last modified date:	04/27/04
Last modified by:	IG

FARRAND CONTROLS (Continued) 1000353599

Comments:	Not reported
Year:	1993
Manifest ID:	CTF0221033
TSDF EPA ID:	CTD001156009
TSDF Name:	SAFETY-KLEEN CORP.
TSDF Address:	39 COMMUNITY AVE EXT.
TSDF City,St,Zip:	PLAINFIELD, CT 06374
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	07/16/93
Transporter EPA ID:	ILD984908202
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD986988822
Gererator Phone:	9147612600
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	Yes
Date Shipped:	07/16/93
Date Received:	07/20/93
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported
Year:	1993
Manifest ID:	CTF0213043
TSDF EPA ID:	CTD001156009
TSDF Name:	SAFETY-KLEEN CORP.
TSDF Address:	39 COMMUNITY AVE/785 NORWICH
TSDF City,St,Zip:	PLAINFIELD, CT 06374
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	05/05/93
Transporter EPA ID:	ILD051060408
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	NYD986988822
Gererator Phone:	9147612600
Generator Address:	Not reported
Generator City,State,Zip:	Not reported

FARRAND CONTROLS (Continued) 1000353599

Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	Yes
Date Shipped:	05/05/93
Date Received:	05/07/93
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

A4 FARRAND CONTROLS MANIFEST S108933542
SE 99 WALL STREET N/A
1/8-1/4 VALHALLA, NY 10595
0.175 mi.
924 ft. Site 3 of 3 in cluster A

Relative: Lower

Actual: 251 ft.

NY MANIFEST:

EPA ID:	NYD986988822
Facility Name:	FARRAND CONTROLS
Facility Address:	99 WALL STREET
Facility City:	VALHALLA
Facility Address 2:	Not reported
Country:	USA
Mailing Name:	FARRAND CONTROLS
Mailing Contact:	FARRAND CONTROLS
Mailing Address:	99 WALL STREET
Mailing Address 2:	Not reported
Mailing City:	VALHALLA
Mailing State:	NY
Mailing Zip:	10595
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	914-761-2600

Document ID:	NYC7859125
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	06/09/2006
Trans1 Recv Date:	06/09/2006
Trans2 Recv Date:	06/16/2006
TSD Site Recv Date:	06/19/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	NY47345JF
Trans2 EPA ID:	Not reported
TSDF ID:	KYD053348108
Waste Code:	F003 - UNKNOWN
Quantity:	00220
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	06
Manifest Tracking Num:	Not reported
Import Ind:	Not reported

FARRAND CONTROLS (Continued) **S108933542**

Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	2007-05-04
Trans1 Recv Date:	2007-05-04
Trans2 Recv Date:	2007-05-14
TSD Site Recv Date:	2007-05-15
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	KYD053348108
Waste Code:	Not reported
Quantity:	206.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	07
Manifest Tracking Num:	000035615SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	5/4/2007
Trans1 Recv Date:	5/4/2007
Trans2 Recv Date:	5/14/2007
TSD Site Recv Date:	5/15/2007
Part A Recv Date:	Not reported

FARRAND CONTROLS (Continued) S108933542

Part B Recv Date:	Not reported
Generator EPA ID:	NYD986988822
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	KYD053348108
Waste Code:	Not reported
Quantity:	206
Units:	P - Pounds
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	000035615SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

B5
SE
1/8-1/4
0.249 mi.
1315 ft.

ADDEO
55 GRAND BLVD
VALHALLA, NY

LTANKS S103238450
HIST LTANKS N/A

Site 1 of 3 in cluster B

Relative:
Lower

Actual:
265 ft.

LTANKS:

Site ID:	92043
Spill No:	9803159
Spill Date:	6/10/1998
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/9/1998
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	6000
Investigator:	jbodee
Referred To:	Not reported
Reported to Dept:	6/10/1998
CID:	19
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	6/10/1998
Spill Record Last Update:	3/19/1999
Spiller Name:	JERARD

ADDEO (Continued) **S103238450**

Spiller Company:	JERARD ADDEO
Spiller Address:	55 GRAND BLVD
Spiller City,St,Zip:	VALHALLA, NY
Spiller County:	001
Spiller Contact:	JERARD ADDEO-HOMEOWNER
Spiller Phone:	(914) 276-2510
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	82669
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" NEW HOME OWNER PROVIDED DOCUMENTATION OF CLOSURE 7/9/98. TANK PASSED RE-TEST.
Remarks:	tank failed the test

Material:

Site ID:	92043
Operable Unit ID:	1063975
Operable Unit:	01
Material ID:	321479
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	92043
Spill Tank Test:	1545980
Tank Number:	1
Tank Size:	550
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/01/04
Test Method:	Horner EZ Check I or II

HIST LTANKS:

Region of Spill:	3
Spill Number:	9803159
Spill Date:	06/10/1998
Spill Time:	18:00
Spill Cause:	Tank Test Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/09/98
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False

ADDEO (Continued) **S103238450**

Investigator:	Q'DEE
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	06/10/98
Reported to Department Time:	21:14
SWIS:	55
Spiller Contact:	JERARD ADDEO-HOMEOWNER
Spiller Phone:	(914) 276-2510
Spiller Extention:	Not reported
Spiller Name:	JERARD ADDEO
Spiller Address:	55 GRAND BLVD
Spiller City,St,Zip:	VALHALLA, NY
Spiller Cleanup Date:	/ /
Facility Contact:	JERARD
Facility Phone:	(914) 276-2510
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	06/10/98
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	03/19/99
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	1
Tank Size:	550
Test Method:	Horner EZ Check
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	NEW HOME OWNER PROVIDED DOCUMENTATION OF CLOSURE 7/9/98. TANK PASSED RE-TEST.

ADDEO (Continued) S103238450

Spill Cause: tank failed the test

B6 **SOMER** LTANKS S103824582
SE **51 GRAND BLVD** HIST LTANKS N/A
1/4-1/2 VALHALLA, NY
0.252 mi.
1330 ft. **Site 2 of 3 in cluster B**

Relative:
Lower

Actual:
261 ft.

LTANKS:

Site ID:	118139
Spill No:	9806550
Spill Date:	8/27/1998
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/2/1998
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	6000
Investigator:	jbodee
Referred To:	Not reported
Reported to Dept:	8/27/1998
CID:	19
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	8/27/1998
Spill Record Last Update:	1/16/1999
Spiller Name:	MARION ROBT SOMMER
Spiller Company:	RESIDENCE
Spiller Address:	51 GRAND BLVD
Spiller City,St,Zip:	VALHALLA, NY 10595-
Spiller County:	001
Spiller Contact:	MARION ROBERT SOMMER
Spiller Phone:	(914) 761-8314
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	102687
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" NES PULLED TANK AND 81.01 TONS SOIL
Remarks:	ATTEMPT WILL BE MADE TO REPAIR PIPES AND THEN RE-TEST.

Material:

Site ID:	118139
Operable Unit ID:	1067770
Operable Unit:	01
Material ID:	317703
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0

SOMER (Continued) S103824582

Units: Gallons
Recovered: No
Resource Affected: Soil
Oxygenate: False

Tank Test:
Site ID: 118139
Spill Tank Test: 1546200
Tank Number: 1
Tank Size: 550
Test Method: 03
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/01/04
Test Method: Horner EZ Check I or II

HIST LTANKS:
Region of Spill: 3
Spill Number: 9806550
Spill Date: 08/27/1998
Spill Time: 10:30
Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 11/02/98
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: O'DEE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 08/27/98
Reported to Department Time: 11:04
SWIS: 55
Spiller Contact: MARION ROBERT SOMMER
Spiller Phone: (914) 761-8314
Spiller Extention: Not reported
Spiller Name: RESIDENCE
Spiller Address: 51 GRAND BLVD
Spiller City,St,Zip: VALHALLA 10595-
Spiller Cleanup Date: / /
Facility Contact: MARION ROBT SOMMER
Facility Phone: (914) 761-8314
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: 0-000000

SOMER (Continued) **S103824582**

Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 08/27/98
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 01/16/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: 1
Tank Size: 550
Test Method: Horner EZ Check
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: NES PULLED TANK AND 81.01 TONS SOIL
Spill Cause: ATTEMPT WILL BE MADE TO REPAIR PIPES AND THEN RE-TEST.

B7 **PRIVATE RESIDENCE** LTANKS **S108298493**
SE **50 GRAND BLVD** **N/A**
1/4-1/2 **VALHALLA, NY**
0.252 mi.
1330 ft. **Site 3 of 3 in cluster B**

Relative: **Lower**

Actual: **261 ft.**

LTANKS:
Site ID: 371138
Spill No: 0607419
Spill Date: 9/28/2006
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: Not reported
Spill Closed Dt: 11/8/2006
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: True
SWIS: 6034
Investigator: JBODee
Referred To: Not reported
Reported to Dept: 9/28/2006
CID: 19
Water Affected: Not reported

PRIVATE RESIDENCE (Continued) **S108298493**

Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	9/28/2006
Spill Record Last Update:	11/8/2006
Spiller Name:	CENTURY TWENTY-ONE
Spiller Company:	PRIVATE RESIDENCE
Spiller Address:	50 GRAND BLVD.
Spiller City,St,Zip:	VALHALLA, NY
Spiller County:	001
Spiller Contact:	CENTURY TWENTY-ONE
Spiller Phone:	(914) 804-8351
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	320924
DEC Memo:	November 8, 2006: TANK PASSED A RETEST AFTER PIPING WAS REPAIRED. BASED UPON INFORMATION PROVIDED TO DEC, NO FURTHER ACTION IS REQUIRED AT THIS TIME. jod
Remarks:	Tank test failure. Recommend uncover and retest.

Material:

Site ID:	371138
Operable Unit ID:	1128909
Operable Unit:	01
Material ID:	2118564
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	371138
Spill Tank Test:	1550319
Tank Number:	Not reported
Tank Size:	550
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	09/28/06
Test Method:	Horner EZ Check I or II

8
NW
1/4-1/2
0.253 mi.
1335 ft.

FEDOR RESIDENCE
33 COMMERCE ST
HAWTHORNE, NY

LTANKS | S105999792
N/A

Relative:
Equal

Actual:
266 ft.

LTANKS:

Site ID:	80854
Spill No:	0305932
Spill Date:	9/4/2003
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.
Spill Closed Dt:	5/18/2004
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	6000
Investigator:	jbodee
Referred To:	Not reported
Reported to Dept:	9/4/2003
CID:	19
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	9/4/2003
Spill Record Last Update:	5/18/2004
Spiller Name:	TRUDY FEDOR
Spiller Company:	Not reported
Spiller Address:	33 COMMERCE ST
Spiller City,St,Zip:	HAWTHORNE, NY
Spiller County:	001
Spiller Contact:	TRUDY FEDOR
Spiller Phone:	(914) 769-1033
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	74880
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" 05/18/04 NES REPORTED SPILL DUE TO HOLES FOUND IN THE TANK. TANK COULD NOT BE REMOVED DUE TO STRUCTUAL CONSIDERATIONS. A SOIL SAMPLE TAKEN DOWN GRADIENT FROM TANK WAS ND FORALL ANALYTES. TANK ABANDONED IN PLACE. NFA REQUIRED AT THIS TIME. jbo
Remarks:	during a tank closure contaminated soil was found so now the tank will be removed instead of closed

Material:

Site ID:	80854
Operable Unit ID:	874507
Operable Unit:	01
Material ID:	503168
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum

FEDOR RESIDENCE (Continued) S105999792

Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

---

9 **BREHMER RESIDENCE** LTANKS S103824424
ESE **14 HOLLY RIDGE RD** HIST LTANKS N/A
1/4-1/2 **MOUNT PLEASANT, NY**
0.261 mi.
1379 ft.

Relative:
Higher

Actual:
326 ft.

LTANKS:

Site ID:	209919
Spill No:	9813969
Spill Date:	2/17/1999
Spill Cause:	Tank Overfill
Spill Source:	Passenger Vehicle
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	4/7/1999
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	6034
Investigator:	tdghiosa
Referred To:	Not reported
Reported to Dept:	2/17/1999
CID:	370
Water Affected:	BRONX RIVER
Spill Notifier:	Federal Government
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/17/1999
Spill Record Last Update:	4/20/1999
Spiller Name:	CHRIS LALAK
Spiller Company:	BREHMER RESIDENCE
Spiller Address:	14 HOLLY RIDGE RD
Spiller City,St,Zip:	MOUNT PLEASANT, ZZ
Spiller County:	001
Spiller Contact:	CHRIS LALAK
Spiller Phone:	(914) 391-5502

BREHMER RESIDENCE (Continued) S103824424

Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 174010

DEC Memo: Prior to Sept, 2004 data translation this spill Lead DEC Field was "GHIOSAY" 4/7/99 AET COMPLETED CLEANUP 3/19/99. NFA
Remarks: overfill of personal school bus - spill to soil and bronx river - westchester county on scene- cleanup crew on scene. WCHD is handling. AET has been hired for cleanup.

Material:
Site ID: 209919
Operable Unit ID: 1074856
Operable Unit: 01
Material ID: 310676
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 30
Units: Gallons
Recovered: No
Resource Affected: Surface Water
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 3
Spill Number: 9813969
Spill Date: 02/17/1999
Spill Time: 17:00
Spill Cause: Tank Overfill
Resource Affectd: Surface Water
Water Affected: BRONX RIVER
Spill Source: Passenger Vehicle
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 04/07/99
Cleanup Ceased: / /
Cleanup Meets Standard: True
Investigator: GHIOSAY
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported

BREHMER RESIDENCE (Continued) **S103824424**

Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 02/17/99
Reported to Department Time: 18:59
SWIS: 55
Spiller Contact: CHRIS LALAK
Spiller Phone: (914) 391-5502
Spiller Extention: Not reported
Spiller Name: BREHMER RESIDENCE
Spiller Address: 14 HOLLY RIDGE RD
Spiller City,St,Zip: MOUNT PLEASANT
Spiller Cleanup Date: / /
Facility Contact: CHRIS LALAK
Facility Phone: (914) 391-5502
Facility Extention: Not reported
Spill Notifier: Federal Government
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 02/17/99
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 04/20/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 30
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 4/7/99 AET COMPLETED CLEANUP 3/19/99. NFA
Spill Cause: overfill of personal school bus - spill to soil and bronx river - westchester county on scene- cleanup crew on scene. WCHD Is handling. AET has been hired for cleanup.

C10 | **LTANKS** | **S106703013**
SE | **36 GRAND BLVD** | HIST LTANKS | **N/A**
1/4-1/2 | **VALAHALA, NY**
0.267 mi.
1408 ft. | **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
256 ft.

LTANKS:

Site ID:	59811
Spill No:	9900638
Spill Date:	4/16/1999
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/1/1999
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	6000
Investigator:	jbodee
Referred To:	Not reported
Reported to Dept:	4/16/1999
CID:	19
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered in Computer:	4/16/1999
Spill Record Last Update:	10/21/2003
Spiller Name:	MRS ELIZABETH RUMBALL
Spiller Company:	Not reported
Spiller Address:	36 GRAND BLVD
Spiller City,St,Zip:	VALHALLA, NY
Spiller County:	001
Spiller Contact:	MRS ELIZABETH RUMBALL
Spiller Phone:	(914) 948-2793
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	58497
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" 7/1/99 NES PULLED TANK AND 10.26 TONS OF CONTAMINATED SOIL. NFA
Remarks:	HORNER EZ 3 VACUUM TEST (GROSS FAILURE)

Material:

Site ID:	59811
Operable Unit ID:	1075402
Operable Unit:	01
Material ID:	307765
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil

(Continued) S106703013

Oxygenate: False

Tank Test:
Site ID: 59811
Spill Tank Test: 1547077
Tank Number: 1
Tank Size: 550
Test Method: 03
Leak Rate: 0
Gross Fail: F
Modified By: Spills
Last Modified: 10/01/04
Test Method: Horner EZ Check I or II

HIST LTANKS:
Region of Spill: 3
Spill Number: 9900638
Spill Date: 04/16/1999
Spill Time: 10:55
Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 07/01/99
Cleanup Ceased: / /
Cleanup Meets Standard: True
Investigator: O'DEE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 04/16/99
Reported to Department Time: 15:38
SWIS: 55
Spiller Contact: MRS ELIZABETH RUMBALL
Spiller Phone: (914) 948-2793
Spiller Extention: Not reported
Spiller Name: Not reported
Spiller Address: 36 GRAND BLVD
Spiller City,St,Zip: VALAHALA, NY
Spiller Cleanup Date: / /
Facility Contact: MRS ELIZABETH RUMBALL
Facility Phone: (914) 948-2793
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /

(Continued) S106703013

Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 04/16/99
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 07/02/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: 1
Tank Size: 550
Test Method: Horner EZ Check
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Talk Test Failures only pass or fail

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: 7/1/99 NES PULLED TANK AND 10.26 TONS OF CONTAMINATED SOIL. NFA
Spill Cause: HORNER EZ 3 VACUUM TEST GROSS FAILURE)

C11 PRIVATE RESIDENCE LTANKS S108639635
SE **55 WALL STREET** N/A
1/4-1/2 **VALHALLA, NY**
0.271 mi.
1433 ft. **Site 2 of 2 in cluster C**

Relative: **Lower**

Actual: **255 ft.**

LTANKS:
Site ID: 381703
Spill No: 0702057
Spill Date: 5/19/2007
Spill Cause: Tank Test Failure
Spill Source: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 5/1/2008
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: True
SWIS: 6034
Investigator: jbodee
Referred To: Not reported
Reported to Dept: 5/19/2007
CID: 19
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported

PRIVATE RESIDENCE (Continued) S108639635

Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/21/2007
Spill Record Last Update:	5/1/2008
Spiller Name:	ANTHONY CANNIZZARO
Spiller Company:	AMERICAN TANK
Spiller Address:	529 SHENANDOIH RD
Spiller City,St,Zip:	HOPEWELL JUNCTION, NY 12533
Spiller County:	001
Spiller Contact:	ANTHONY CANNIZZARO
Spiller Phone:	(845) 226-6666
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	331098
DEC Memo:	May 1, 2008: Advanced Environmental removed and disposed of tank. No evidence of leak or contamination was found. Based upon information provided to DEC, No Further Action is required at this time. jod
Remarks:	TANK TEST FAILURE - HORNER EZ 3 METHOD - HAS OXIDATION OBVIOUS HOLES IN VENT PIPE ABOVE PRODUCT LEAK

Material:

Site ID:	381703
Operable Unit ID:	1139138
Operable Unit:	01
Material ID:	2129147
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	381703
Spill Tank Test:	1550849
Tank Number:	1
Tank Size:	550
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	05/21/07
Test Method:	Horner EZ Check I or II

12
SE
1/4-1/2
0.324 mi.
1712 ft.

CURTO RES
2 PARK AVE
VALHALLA, NY

LTANKS **S108299205**
N/A

Relative:
Lower

Actual:
248 ft.

LTANKS:

Site ID:	375448
Spill No:	0610915
Spill Date:	12/28/2006
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	Not reported
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	6034
Investigator:	JBODee
Referred To:	Not reported
Reported to Dept:	12/28/2006
CID:	19
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	12/28/2006
Spill Record Last Update:	1/18/2007
Spiller Name:	URSULA BOMMARITO
Spiller Company:	CURTO RESIDENCE
Spiller Address:	2 PARK AVE
Spiller City,St,Zip:	VALHALLA, NY
Spiller County:	999
Spiller Contact:	URSULA BOMMARITO
Spiller Phone:	(914) 923-0773
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	325080
DEC Memo:	1/17/07 Received call from IDC Tank Testing Co. who report that Bommarito was the potential buyer of the property, not the current owner. Curto is the current owner of the property, and the address on the spill report was corrected to reflect that.D.Weitz
Remarks:	Test method... ALERT. Tank test failure. Recommend uncover, retest. Tank is in a cement box.

Material:

Site ID:	375448
Operable Unit ID:	1133083
Operable Unit:	01
Material ID:	2122886
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0

CURTO RES (Continued) **S108299205**

Units: Gallons
Recovered: No
Resource Affected: Soil
Oxygenate: False

Tank Test:
Site ID: 375448
Spill Tank Test: 1550529
Tank Number: Not reported
Tank Size: 550
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Watchdog
Last Modified: 12/28/06
Test Method: Unknown

13
ESE
1/4-1/2
0.355 mi.
1876 ft.

11 LEROY AVE
VALHALLA, NY

LTANKS **S104620460**
HIST LTANKS N/A

Relative:
Equal

Actual:
266 ft.

LTANKS:
Site ID: 211282
Spill No: 9907012
Spill Date: 9/13/1999
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 1/24/2000
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: True
SWIS: 6000
Investigator: jbodee
Referred To: Not reported
Reported to Dept: 9/13/1999
CID: 19
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 9/13/1999
Spill Record Last Update: 2/7/2000
Spiller Name: GREENE
Spiller Company: Not reported
Spiller Address: 11 LEROY AVE
Spiller City,St,Zip: VALHALLA, NY
Spiller County: 001
Spiller Contact: GREENE
Spiller Phone: (914) 428-6968
Spiller Extention: Not reported

(Continued) **S104620460**

DEC Region: 3
DER Facility ID: 175132

DEC Memo: Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" 01/24/2000 NORTHEAST DISPOSED OF TANK AND 13.75 TONS OF CONTAMINATED SOIL FOR AIG CLAIM. NFA
Remarks: Not reported

Material:
Site ID: Not reported
Operable Unit ID: Not reported
Operable Unit: Not reported
Material ID: Not reported
Material Code: Not reported
Material Name: Not reported
Case No.: Not reported
Material FA: Not reported
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 211282
Spill Tank Test: 1547609
Tank Number: 001
Tank Size: 550
Test Method: 03
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/01/04
Test Method: Horner EZ Check I or II

HIST LTANKS:
Region of Spill: 3
Spill Number: 9907012
Spill Date: 09/13/1999
Spill Time: 09:00
Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 01/24/00
Cleanup Ceased: / /
Cleanup Meets Standard: True
Investigator: O'DEE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported

(Continued) **S104620460**

Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	09/13/99
Reported to Department Time:	10:39
SWIS:	55
Spiller Contact:	GREENE
Spiller Phone:	(914) 428-6968
Spiller Extention:	Not reported
Spiller Name:	Not reported
Spiller Address:	11 LEROY AVE
Spiller City,St,Zip:	VALHALLA, NY
Spiller Cleanup Date:	/ /
Facility Contact:	GREENE
Facility Phone:	(914) 428-6968
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	09/13/99
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	02/07/00
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	001
Tank Size:	550
Test Method:	Horner EZ Check
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Not reported
Quantity Spilled:	Not reported
Unkonwn Quantity Spilled:	Not reported
Units:	Not reported
Quantity Recovered:	Not reported
Unkonwn Quantity Recovered:	Not reported
Material:	Not reported
Class Type:	Not reported
Times Material Entry In File:	Not reported
CAS Number:	Not reported
Last Date:	Not reported
DEC Remarks:	01/24/2000 NORTHEAST DISPOSED OF TANK AND 13.75 TONS OF CONTAMINATED SOIL FOR AIG CLAIM. NFA
Spill Cause:	Not reported

D14 MANCINI RESIDENCE LTANKS S105997752
SE 59 LEROY AVE N/A
1/4-1/2 VALHALLA, NY
0.379 mi.
2002 ft. Site 1 of 4 in cluster D

Relative: Lower

Actual: 250 ft.

LTANKS:

Site ID:	200298
Spill No:	0209880
Spill Date:	12/30/2002
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	9/5/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	6000
Investigator:	jbodee
Referred To:	Not reported
Reported to Dept:	12/30/2002
CID:	19
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	6/10/2003
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/30/2002
Spill Record Last Update:	9/5/2003
Spiller Name:	MANCINI RESIDENCE
Spiller Company:	Not reported
Spiller Address:	59 LEROY AVE
Spiller City,St,Zip:	VALHALLA, NY
Spiller County:	001
Spiller Contact:	MANCINI RESIDENCE
Spiller Phone:	(914) 769-7783
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	166674
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" 02/05/03 PREVIOUSLY REPORTED AS SPILL 02-05737. CONTAMINATION WENT ONTO NEIGHBORING PROPERTY AT 57 LEROY. 02/10/03 NES DISPOSED OF LUST AND 92.71 TONS OF CONTAMINATED SOIL. GW HAS BEEN IMPACTED. FURTHER WORK TO BE DONE AT THIS SITE AND ON NEIGHBORING PROPERTY. 04/03/03 ACTION DUE NOTICE ISSUED FOR NEIGHBORING PROPERTY. SEE SPILL 03-85001. 04/10/03 TTF AT 57 LEROY REPORTED AS SPILL 03-00362. 05/16/03 NES EXCAVATED AND DISPOSED OF AN ADDITIONAL 170.80 TONS OF CONTAMINATED SOIL. GW REMEDIAL SYSTEM TO BE INSTALLED. 05/28/03 GW SAMPLING. RESULTS OVER TAGM LIMITS. 08/14/03 GW SAMPLING. RESULTS WERE ND FOR ALL ANALYTES. 09/05/03 CLOSURE REPORT REVIEWED. NFA REQUIRED.
Remarks:	THEY WERE REMOVING AN UNDERGROUND TANK THAT HAD HOLES IN - THEY ARE REMOVING THE CONTAMINATED SOIL

Material:

Site ID:	200298
Operable Unit ID:	861120

MANCINI RESIDENCE (Continued) **S105997752**

Operable Unit:	01
Material ID:	513299
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

D15
SE
1/4-1/2
0.379 mi.
2002 ft.

Relative:
Lower

Actual:
250 ft.

MANCINI RESIDENCE LTANKS S105996649
59 LEROY AVE N/A
VALHALLA, NY

Site 2 of 4 in cluster D

LTANKS:

Site ID:	200297
Spill No:	0205737
Spill Date:	9/3/2002
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	2/5/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	6000
Investigator:	jbodee
Referred To:	Not reported
Reported to Dept:	9/3/2002
CID:	19
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	4/3/2003
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	9/3/2002
Spill Record Last Update:	9/5/2003
Spiller Name:	Not reported

MANCINI RESIDENCE (Continued) S105996649

Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	999
Spiller Contact:	CAROLINE MANCINI
Spiller Phone:	(914) 747-9695
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	166674
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" 02/05/03 TANK FAILED A SECOND TEST. TANK PULLED BY NES. CONTAMINATION IMPACTED NEIGHBOR'S PROPERTY AT 57 LEROY. SEE SPILL 02-09880 FOR CLOSURE INFO. NFA THIS NUMBER.
Remarks:	uncover repair retest.

Material:

Site ID:	200297
Operable Unit ID:	858276
Operable Unit:	01
Material ID:	519935
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	200297
Spill Tank Test:	1527412
Tank Number:	1
Tank Size:	550
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/01/04
Test Method:	Horner EZ Check I or II

D16 LTANKS S105998663
SE **57 LEROY AVE** **N/A**
1/4-1/2 **VALHALLA, NY**
0.379 mi.
2003 ft. **Site 3 of 4 in cluster D**

Relative:
Lower

Actual:
251 ft.

LTANKS:

Site ID:	312832
Spill No:	0300362
Spill Date:	4/10/2003
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

(Continued) S105998663

Spill Closed Dt:	7/31/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	6000
Investigator:	jbodee
Referred To:	Not reported
Reported to Dept:	4/10/2003
CID:	19
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	6/10/2003
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/10/2003
Spill Record Last Update:	7/31/2003
Spiller Name:	JOHN MANFREDI
Spiller Company:	JOE SZATKOWSKI
Spiller Address:	57 LEROY AVE
Spiller City,St,Zip:	VALHALLA, NY
Spiller County:	001
Spiller Contact:	JOHN MANFREDI
Spiller Phone:	(914) 241-3795
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	252237
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" 04/11/03 DEC REQUIRED HOME OWNER TO TEST TANK BECAUSE OF SOIL AND GROUND WATER CONTAMINATION ON NEIGHBORING PROPERTY. TESTER DID NOT USE A DEC APPROVED TEST METHOD, BUT THE TANK FAILED ANYWAY. ALSO SEE SPILLS 02-09880 AND 03-85001. 07/31/03 GRAZI1 CORP. DISPOSED OF LUST AND 244.57 TONS OF CONTAMINATED SOIL. JM ASSOCIATES INSTALLED GROUND WATER ORC SYSTEM AND REMOVED 14,925 GALLONS OF CONTAMINTED GW. FINAL SAMPLE RESULTSFROM 6/10/03 WERE ALL ND. CLOSURE REPORT FROM JM ASSOCIATES. NFA
Remarks:	tank test failure - it will be uncovered and retested

Material:

Site ID:	312832
Operable Unit ID:	866439
Operable Unit:	01
Material ID:	508443
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	312832

(Continued) S105998663

Spill Tank Test:	1528252
Tank Number:	1
Tank Size:	550
Test Method:	99
Leak Rate:	0
Gross Fail:	F
Modified By:	Spills
Last Modified:	10/01/04
Test Method:	Alternate Test per 613.5a2v

D17 LTANKS S106471484
SE 57 LEROY AVENUE N/A
1/4-1/2 VALHALLA, NY
0.379 mi.
2003 ft. Site 4 of 4 in cluster D

Relative: Lower

Actual: 251 ft.

LTANKS:

Site ID:	227798
Spill No:	0385001
Spill Date:	1/31/2003
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	4/10/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	6000
Investigator:	jbodee
Referred To:	Not reported
Reported to Dept:	4/3/2003
CID:	19
Water Affected:	Not reported
Spill Notifier:	DEC
Last Inspection:	4/10/2003
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/4/2003
Spill Record Last Update:	10/20/2003
Spiller Name:	SAME
Spiller Company:	JOE SZATKOWSKI
Spiller Address:	57 LEROY AVE
Spiller City,St,Zip:	VALHALLA, NY
Spiller County:	001
Spiller Contact:	JOE SZATKOWSKI
Spiller Phone:	(914) 686-1303
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	187985

DEC Memo: Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" 04/04/03 JM ASSOCIATES HIRED BY HOME OWNERS INSURANCE TO INVESTIGATE SPILL. 04/10/03 TANK FAILED TEST. SPILL NUMBER 03-00362 CALLED IN. THIS SPILL IS ALSO ASSOCIATED WITH SPILLS 02-05737 AND 02-09880. REFER TO SPILL 03-00362 FOR

(Continued) S106471484

Remarks: CLOSURE REPORT. NFA THIS SPILL NUMBER.
LEAKING UST FROM NEIGHBORING PROPERTY WAS REMOVED TWO MONTHS EARLIER. DURING REMEDIATION OF THAT SITE, IT WAS DISCOVERED THIS TANK IS LEAKING AS WELL.

Material:
- Site ID: 227798
- Operable Unit ID: 884503
- Operable Unit: 01
- Material ID: 494794
- Material Code: 0001
- Material Name: #2 Fuel Oil
- Case No.: Not reported
- Material FA: Petroleum
- Quantity: 0
- Units: Gallons
- Recovered: No
- Resource Affected: Groundwater
- Oxygenate: False

Tank Test:
- Site ID: Not reported
- Spill Tank Test: Not reported
- Tank Number: Not reported
- Tank Size: Not reported
- Test Method: Not reported
- Leak Rate: Not reported
- Gross Fail: Not reported
- Modified By: Not reported
- Last Modified: Not reported
- Test Method: Not reported

---

18 **KENSICO CEMETARY** LTANKS **S102448098**
SSE **LAKE VIEW AVENUE** HIST LTANKS **N/A**
1/4-1/2 **VALHALLA, NY**
0.393 mi.
2072 ft.

Relative: **Higher**

Actual: **269 ft.**

LTANKS:
- Site ID: 249116
- Spill No: 9610050
- Spill Date: 11/8/1996
- Spill Cause: Tank Failure
- Spill Source: Institutional, Educational, Gov., Other
- Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
- Spill Closed Dt: 10/15/1997
- Facility Addr2: Not reported
- Cleanup Ceased: Not reported
- Cleanup Meets Standard: True
- SWIS: 6000
- Investigator: tdghiosa
- Referred To: Not reported
- Reported to Dept: 11/12/1996
- CID: 205
- Water Affected: Not reported
- Spill Notifier: Responsible Party
- Last Inspection: Not reported

KENSICO CEMETARY (Continued) **S102448098**

Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 11/12/1996
Spill Record Last Update: 11/12/1997
Spiller Name: TIM WILSON
Spiller Company: KENSICO CEMETARY
Spiller Address: LAKE VIEW AVENUE
Spiller City,St,Zip: VALHALLA, NY
Spiller County: 001
Spiller Contact: TIM WILSON
Spiller Phone: (914) 949-0347
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 204274

DEC Memo: Prior to Sept, 2004 data translation this spill Lead DEC Field was "GHIOSAY' 10/15/97 IRA CONKLIN, TWO TANKS & SIX YARDS OF CONTAMINATED SOIL WERE REMOVED; ONE TANK HAD A HOLE; SAMPLES WERE ALL UNDER STARS;
Remarks: tank pulled and contamination found in soil.

Material:
Site ID: 249116
Operable Unit ID: 1041542
Operable Unit: 01
Material ID: 342261
Material Code: 0001
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Soil
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 3
Spill Number: 9610050
Spill Date: 11/08/1996
Spill Time: 09:30
Spill Cause: Tank Failure
Resource Affectd: On Land

KENSICO CEMETARY (Continued) **S102448098**

Water Affected:	Not reported
Spill Source:	Other Non Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/15/97
Cleanup Ceased:	/ /
Cleanup Meets Standard:	True
Investigator:	GHIOSAY
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	11/12/96
Reported to Department Time:	12:51
SWIS:	55
Spiller Contact:	TIM WILSON
Spiller Phone:	(914) 949-0347
Spiller Extention:	Not reported
Spiller Name:	KENSICO CEMETARY
Spiller Address:	LAKE VIEW AVENUE
Spiller City,St,Zip:	VALHALLA, NY
Spiller Cleanup Date:	/ /
Facility Contact:	TIM WILSON
Facility Phone:	(914) 949-0347
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	11/12/96
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	11/12/97
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0

KENSICO CEMETARY (Continued) S102448098

Unkonwn Ouantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: 10/15/97 IRA CONKLIN, TWO TANKS SIX YARDS OF CONTAMINATED SOIL WERE REMOVED; ONE TANK HAD A HOLE; SAMPLES WERE ALL UNDER STARS;
Spill Cause: tank pulled and contamination found in soil.

E19 **HUGHES HOME** LTANKS S107410695
ENE 9 HiGHCLERE LANE N/A
1/4-1/2 VALHALLA, NY
0.448 mi.
2367 ft. **Site 1 of 2 in cluster E**

Relative: **Higher**

Actual: 328 ft.

LTANKS:
Site ID: 353555
Spill No: 0508036
Spill Date: 10/5/2005
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: Not reported
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 6034
Investigator: JBODee
Referred To: Not reported
Reported to Dept: 10/5/2005
CID: 19
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 1
Date Entered In Computer: 10/5/2005
Spill Record Last Update: 10/13/2005
Spilier Name: ROSEMARIE HUGHES
Spiller Company: HUGHES HOME
Spiller Address: 9 HIGH CLERE LANE
Spiller City,St,Zip: VALHALA, NY
Spiller County: 001
Spiller Contact: ROSEMARIE HUGHES
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 300898

DEC Memo: Not reported
Remarks: Not reported

Material:
Site ID: 353555
Operable Unit ID: 1111011

HUGHES HOME (Continued) S107410695

Operable Unit:	01
Material ID:	2101053
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	353555
Spill Tank Test:	1549368
Tank Number:	1
Tank Size:	550
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	10/05/05
Test Method:	Horner EZ Check I or II

E20
ENE
1/4-1/2
0.448 mi.
2367 ft.

Relative:
Higher

Actual:
328 ft.

8 HIGHCLERE LANE
VALHALLA, NY

LTANKS **S104619685**
HIST LTANKS N/A

Site 2 of 2 in cluster E

LTANKS:

Site ID:	176193
Spill No:	9807183
Spill Date:	9/11/1998
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/13/1998
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	6000
Investigator:	jbodee
Referred To:	Not reported
Reported to Dept:	9/11/1998
CID:	19
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	9/11/1998
Spill Record Last Update:	4/24/2005
Spiller Name:	SAME

(Continued) S104619685

Spiller Company: MR. KELLER
Spiller Address: 8 HIGHCLERE LANE
Spiller City,St,Zip: VALHALLA, NY
Spiller County: 001
Spiller Contact: JAMES ROOD
Spiller Phone: (914) 345-5700
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 148076

DEC Memo: Prior to Sept, 2004 data translation this spill Lead DEC Field was "O'DEE" 10/07/98 - PASED RE-TEST.
Remarks: TANK TEST FAILURE AT ABOVE LOCATION. PROPERTY OWNER ADVISED. FURTHER TESTING TO BE DONE. NO CALL BACK REQUESTED.

Material:
Site ID: 176193
Operable Unit ID: 1068263
Operable Unit: 01
Material ID: 318294
Material Code: 0001
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Soil
Oxygenate: False

Tank Test:
Site ID: 176193
Spill Tank Test: 1546245
Tank Number: 1
Tank Size: 550
Test Method: 03
Leak Rate: 0
Gross Fail: F
Modified By: Spills
Last Modified: 10/01/04
Test Method: Horner EZ Check I or II

HIST LTANKS:
Region of Spill: 3
Spill Number: 9807183
Spill Date: 09/11/1998
Spill Time: 15:30
Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Passenger Vehicle
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/13/98
Cleanup Ceased: / /
Cleanup Meets Standard: True

(Continued) **S104619685**

Investigator: O'DEE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 09/11/98
Reported to Department Time: 16:02
SWIS: 55
Spiller Contact: JAMES ROOD
Spiller Phone: (914) 345-5700
Spiller Extention: Not reported
Spiller Name: MR. KELLER
Spiller Address: 8 HIGHCLERE LANE
Spiller City,St,Zip: VALHALLA, NY
Spiller Cleanup Date: / /
Facility Contact: SAME
Facility Phone: (914) 345-5700
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 09/11/98
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/18/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: 1
Tank Size: 550
Test Method: Horner EZ Check
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Tank Test Failures only pass or fail

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: 10/07/98 - PASED RE-TEST.

(Continued) **S104619685**

Spill Cause: TANK TEST FAILURE AT ABOVE LOCATION. PROPERTY OWNER ADVISED. FURTHER TESTING TO BE DONE. NO CALL BACK REQUESTED.

21
SE
1/4-1/2
0.451 mi.
2380 ft.

187 LAKE VIEW AVENUE
VALHALLA, NY

LTANKS **S105999999**
N/A

Relative:
Lower

Actual:
253 ft.

LTANKS:

Site ID:	240744
Spill No:	0306692
Spill Date:	9/18/2003
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	12/15/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	6000
Investigator:	WCHD
Referred To:	Westchester Cnty Health Dept
Reported to Dept:	9/24/2003
CID:	19
Water Affected:	Not reported
Spill Notifier:	Federal Government
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	9/24/2003
Spill Record Last Update:	12/18/2003
Spiller Name:	SAME
Spiller Company:	RICHARD DUDYSHAYN
Spiller Address:	24 OSCALETA ROAD
Spiller City,St,Zip:	SOUTH SALEM, NY
Spiller County:	001
Spiller Contact:	CARL PELLEGRINO
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	197975
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead DEC Field was "WCHD-SCHNEIDER" 12/15/03 WCHD INSPECTED. INVALID COMPLAINT, NO OIL FOUND.
Remarks:	Not reported

Material:

Site ID:	240744
Operable Unit ID:	875445
Operable Unit:	01
Material ID:	503883
Material Code:	0001
Material Name:	#2 Fuel Oil

(Continued) **S105999999**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Soil
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HAWTHORNE	1009225752	AL SCADERA	BARRIER S/S 280 COMMERCE ST	10532	MANIFEST
HAWTHORNE	1000555183	NYSDOT BIN 5502109	BRG RAMP TO TACONIC ST PKWY &	10532	FINDS, RCRA-NonGen
HAWTHORNE	1000446254	NYSDOT BIN 2038000	BRIDGE RTE 141 RR	10532	FINDS, RCRA-NonGen
MAHOPAC	S109367604	NYCDEP -MAHOPAC WWTP	RTE 6 AT CROTON FALLS RD	10595	MANIFEST, MANIFEST
MOUNT PLEASANT	A100276752	KENSICO GARAGE	ROUTE 22	10595	AST
MOUNT PLEASANT	U003994674	KENSICO GARAGE	ROUTE 22	10595	UST
MOUNT PLEASANT	1000693466	NYSDOT BIN 1091032	RTE 9A & RAMP TO RTE 100 & 141	10532	FINDS, RCRA-NonGen, MANIFEST
MOUNT PLEASANT	S109375172	NYSDOT BIN 5502092	BRG TACONIC ST PKWY / SAW MILL	10532	MANIFEST
MOUNT PLEASANT	S109375169	NYSDOT BIN 5502109	BRG RAMP TO TACONIC ST PKWY /	10532	MANIFEST
MOUNT PLEASANT	S109375164	NYSDOT BIN 1091031	BRIDGE RTE 9A / RTE 100	10532	MANIFEST
VALHALLA	S102104343	VALHALLA CORR.FACIL.FIELD	RT. 100 GRASSLANDS ROAD		NY Spills, NY Hist Spills
VALHALLA	S107410206	WESTCHESTER CO MEDICAL CT	RT 100		LTANKS
VALHALLA	S103575698	WESTCHESTER COUNTY MEDICA	ROUTE 100		NY Spills, NY Hist Spills
VALHALLA	1004762162	NYC DEP EASTVIEW LAB	RT 100C / TAYLOR ROAD	10595	MANIFEST, FINDS, RCRA-CESQG
VALHALLA	S103274349	WESTCHESTER CO JAIL	RT 100C		NY Spills, NY Hist Spills
VALHALLA	S102110085	KENSICO GARAGE	RT. 22		NY Spills, NY Hist Spills
VALHALLA	S105997836	BILL CUMINGS	RT 22 / OLD ORCHARD		LTANKS
VALHALLA	S105997837	BILL CUMINGS	RT 22 / OLD ORCHARD		LTANKS
VALHALLA	S105997834		RT 22 / OLD ORCHARD		LTANKS
VALHALLA	S105997835	BILL CUMINGS	RT 22 / OLD ORCHARD		LTANKS
VALHALLA	S102664794	NYC DEP	RT 22		NY Spills, NY Hist Spills
VALHALLA	1009218192	NYSDOT VALHALLA RESIDENCY HEADQUARTERS	RTE 9A & DANA RD	10595	RCRA-SQG, MANIFEST
VALHALLA	S102105140	NYC WATER SUPPLY	COONEY HILL ROAD RT. 120		NY Spills, NY Hist Spills
VALHALLA	S104644186		DANARD / RT.9		NY Spills, NY Hist Spills
VALHALLA	S106126502	OLD SAWMILL RIVER ROAD	1/2 MILE EAST OF RT 315		NY Spills
VALHALLA	S103478827	VAHALLA CAMPUS	RT.110C		LTANKS, HIST LTANKS
VALHALLA	S106001259	NYS DOT	SMALL MILL RIVER RD/RT 9A		NY Spills
WALLKILL	1007205961	NYCDEP-WALLKILL BLOW OFF CHAMBER	FOREST GLEN RD RTE 208	10595	RCRA-NonGen

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/02/2009
Date Data Arrived at EDR: 02/12/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 46

Source: EPA
Telephone: N/A
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/27/2009
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/23/2009
Date Data Arrived at EDR: 04/28/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/27/2009
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 04/20/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/27/2009
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/09/2009	Source: EPA
Date Data Arrived at EDR: 01/30/2009	Telephone: 703-412-9810
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/29/2009
Number of Days to Update: 101	Next Scheduled EDR Contact: 07/13/2009
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 03/16/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/15/2009
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2009	Source: EPA
Date Data Arrived at EDR: 04/02/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 08/31/2009
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/30/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 109

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 05/12/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 03/10/2009
Date Data Arrived at EDR: 03/11/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/11/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrustion Legacy Sites List

"Vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying or adjacent buildings. The subsurface source can either be contaminated groundwater or contaminated soil which releases vapors into the pore spaces in the soil.Improvements in analytical techniques and knowledge gained from site investigations in New York and other states has led to an increased awareness of soil vapor as a medium of concern and of the potential for exposures from the soil vapor intrusion pathway. Based on this additional information, New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 02/11/2009
Date Data Arrived at EDR: 03/13/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 19

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 03/13/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/27/2009
Date Data Arrived at EDR: 01/27/2009
Date Made Active in Reports: 03/12/2009
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 04/27/2009
Next Scheduled EDR Contact: 07/27/2009
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 03/10/2009
Date Data Arrived at EDR: 03/11/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 03/11/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 12/15/2008
Date Data Arrived at EDR: 12/16/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 03/13/2009
Date Data Arrived at EDR: 03/17/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 13

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/03/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 20

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/20/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 03/03/2009
Date Data Arrived at EDR: 03/04/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 26

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/20/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 9

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/24/2009
Date Data Arrived at EDR: 03/03/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Petroleum Bulk Storage (PBS) Database
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 04/21/2009
Date Data Arrived at EDR: 04/23/2009
Date Made Active in Reports: 05/14/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: Varies

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 04/21/2009
Date Data Arrived at EDR: 04/23/2009
Date Made Active in Reports: 05/14/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 04/21/2009
Date Data Arrived at EDR: 04/23/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Quarterly

MOSF: Major Oil Storage Facility Site Listing
These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 04/21/2009
Date Data Arrived at EDR: 04/23/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 03/03/2009
Date Data Arrived at EDR: 03/04/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 26

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/15/2008
Date Data Arrived at EDR: 12/16/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 90

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 03/13/2009
Date Data Arrived at EDR: 03/17/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 13

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/24/2009
Date Data Arrived at EDR: 03/03/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/22/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/20/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 9

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 09/08/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 27

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 03/10/2009
Date Data Arrived at EDR: 03/11/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 03/11/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 03/10/2009
Date Data Arrived at EDR: 03/11/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 03/11/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Quarterly

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 12/31/1992
Date Data Arrived at EDR: 01/31/2007
Date Made Active in Reports: 04/19/2007
Number of Days to Update: 78

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 04/14/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 03/10/2009
Date Data Arrived at EDR: 03/11/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 03/11/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 03/10/2009
Date Data Arrived at EDR: 03/11/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/11/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Quarterly

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 03/10/2009
Date Data Arrived at EDR: 03/11/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 03/11/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2008
Date Data Arrived at EDR: 11/14/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 05/20/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 03/25/2008
Date Data Arrived at EDR: 04/17/2008
Date Made Active in Reports: 05/15/2008
Number of Days to Update: 28

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 04/07/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Varies

ODi: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Registered Recycling Facility List
A listing of recycling facilities.

Date of Government Version: 01/27/2009
Date Data Arrived at EDR: 01/27/2009
Date Made Active in Reports: 03/12/2009
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 04/27/2009
Next Scheduled EDR Contact: 07/27/2009
Data Release Frequency: Semi-Annually

SWTIRE: Registered Waste Tire Storage & Facility List
A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 05/15/2009
Next Scheduled EDR Contact: 08/10/2009
Data Release Frequency: Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 10/31/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 53

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/26/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Quarterly

DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 11/21/2008
Date Data Arrived at EDR: 11/26/2008
Date Made Active in Reports: 12/11/2008
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/11/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Annually

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2009
Date Data Arrived at EDR: 03/20/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 05/18/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 03/09/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 43

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/16/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Annually

SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 03/10/2009
Date Data Arrived at EDR: 03/11/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 03/11/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008
Date Data Arrived at EDR: 05/28/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 72

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/27/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 01/27/2009
Date Data Arrived at EDR: 04/23/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 18

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/21/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/23/2009
Date Data Arrived at EDR: 04/28/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 21

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/08/2009
Number of Days to Update: 1

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 03/16/2009
Next Scheduled EDR Contact: 06/15/2009
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 03/24/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 42

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/24/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 04/09/2009
Next Scheduled EDR Contact: 06/15/2009
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 04/14/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 03/16/2009
Next Scheduled EDR Contact: 06/15/2009
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 03/16/2009
Next Scheduled EDR Contact: 06/15/2009
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 05/18/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 03/20/2009
Date Data Arrived at EDR: 03/20/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/13/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 02/26/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 9

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 05/04/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/02/2009
Date Data Arrived at EDR: 04/24/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 25

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/28/2009
Date Data Arrived at EDR: 04/29/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/29/2009
Next Scheduled EDR Contact: 07/27/2009
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/28/2009
Date Data Arrived at EDR: 05/01/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 18

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 92

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/19/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/27/2009
Date Data Arrived at EDR: 02/25/2009
Date Made Active in Reports: 03/12/2009
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/27/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Annually

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/10/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 04/07/2009
Next Scheduled EDR Contact: 07/06/2009
Data Release Frequency: Varies

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 05/06/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 05/05/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: No Update Planned

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 09/05/2007
Date Made Active in Reports: 10/17/2007
Number of Days to Update: 42

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 05/18/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 03/24/2009
Date Data Arrived at EDR: 05/01/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 18

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 04/15/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 12/08/2008
Date Data Arrived at EDR: 12/09/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 97

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/10/2009
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: N/A

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 02/20/2009
Date Data Arrived at EDR: 02/25/2009
Date Made Active in Reports: 03/09/2009
Number of Days to Update: 12

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/04/2009
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 02/20/2009
Date Data Arrived at EDR: 02/25/2009
Date Made Active in Reports: 03/09/2009
Number of Days to Update: 12

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/04/2009
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 04/27/2009
Next Scheduled EDR Contact: 07/27/2009
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 08/20/2007
Date Data Arrived at EDR: 10/10/2007
Date Made Active in Reports: 11/19/2007
Number of Days to Update: 40

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/05/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 04/27/2009
Next Scheduled EDR Contact: 07/27/2009
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 08/20/2007
Date Data Arrived at EDR: 10/10/2007
Date Made Active in Reports: 11/19/2007
Number of Days to Update: 40

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/05/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 03/12/2009
Date Data Arrived at EDR: 04/01/2009
Date Made Active in Reports: 05/14/2009
Number of Days to Update: 43

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 03/12/2009
Date Data Arrived at EDR: 04/01/2009
Date Made Active in Reports: 05/14/2009
Number of Days to Update: 43

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Annually

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Annually

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 05/05/2005
Date Data Arrived at EDR: 05/31/2005
Date Made Active in Reports: 06/30/2005
Number of Days to Update: 30

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Varies

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 05/05/2005
Date Data Arrived at EDR: 05/31/2005
Date Made Active in Reports: 06/30/2005
Number of Days to Update: 30

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that iists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 12/11/2008
Date Made Active in Reports: 03/19/2009
Number of Days to Update: 98

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 03/13/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 05/05/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 17

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 05/05/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/11/2008
Date Made Active in Reports: 10/02/2008
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/09/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 02/12/2009
Date Made Active in Reports: 03/11/2009
Number of Days to Update: 27

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 03/16/2009
Next Scheduled EDR Contact: 06/15/2009
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/09/2009
Date Made Active in Reports: 05/20/2009
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 05/11/2009
Next Scheduled EDR Contact: 08/10/2009
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/08/2008
Number of Days to Update: 17

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 04/07/2009
Next Scheduled EDR Contact: 07/06/2009
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) Is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

115 WALL STREET
115 WALL STREET
VALHALLA, NY 10595

TARGET PROPERTY COORDINATES

Latitude (North):	41.08810 - 41° 5' 17.2"
Longitude (West):	73.7878 - 73° 47' 16.1"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	601815.8
UTM Y (Meters):	4549033.0
Elevation:	266 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41073-A7 WHITE PLAINS, NY
Most Recent Revision:	1994

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

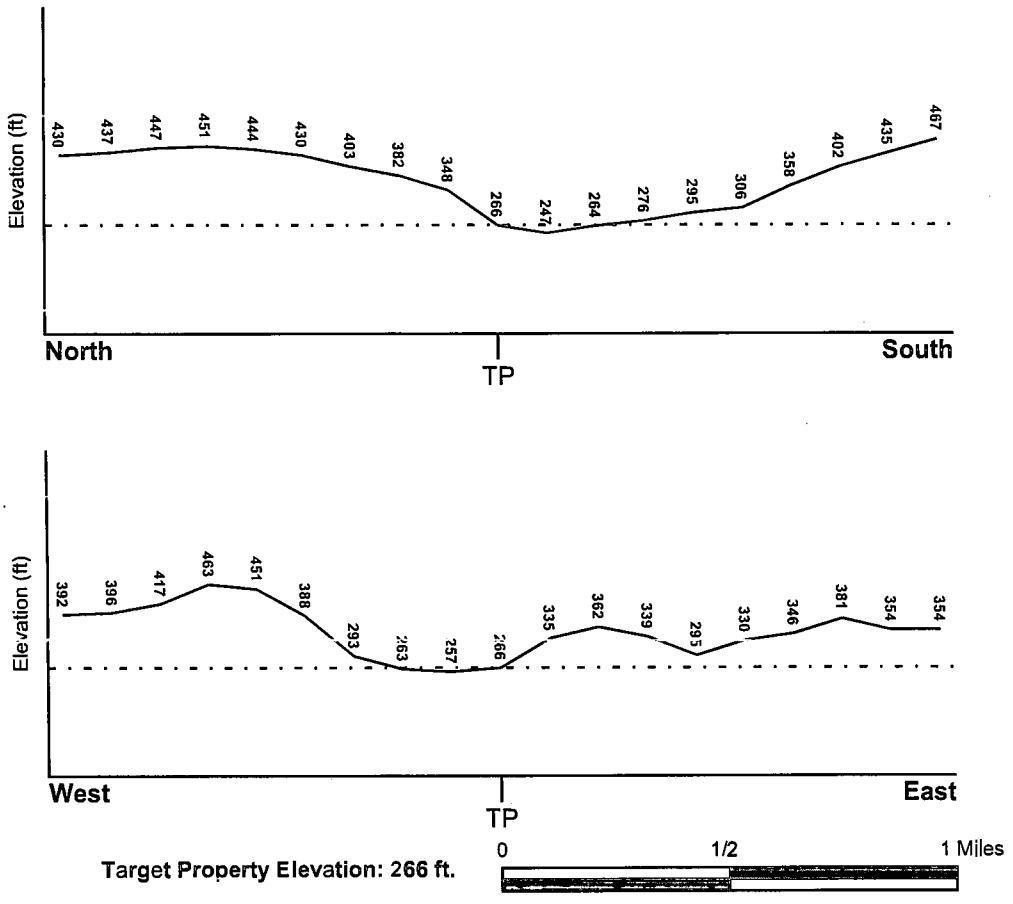
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
WESTCHESTER, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 3609190015C

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
WHITE PLAINS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

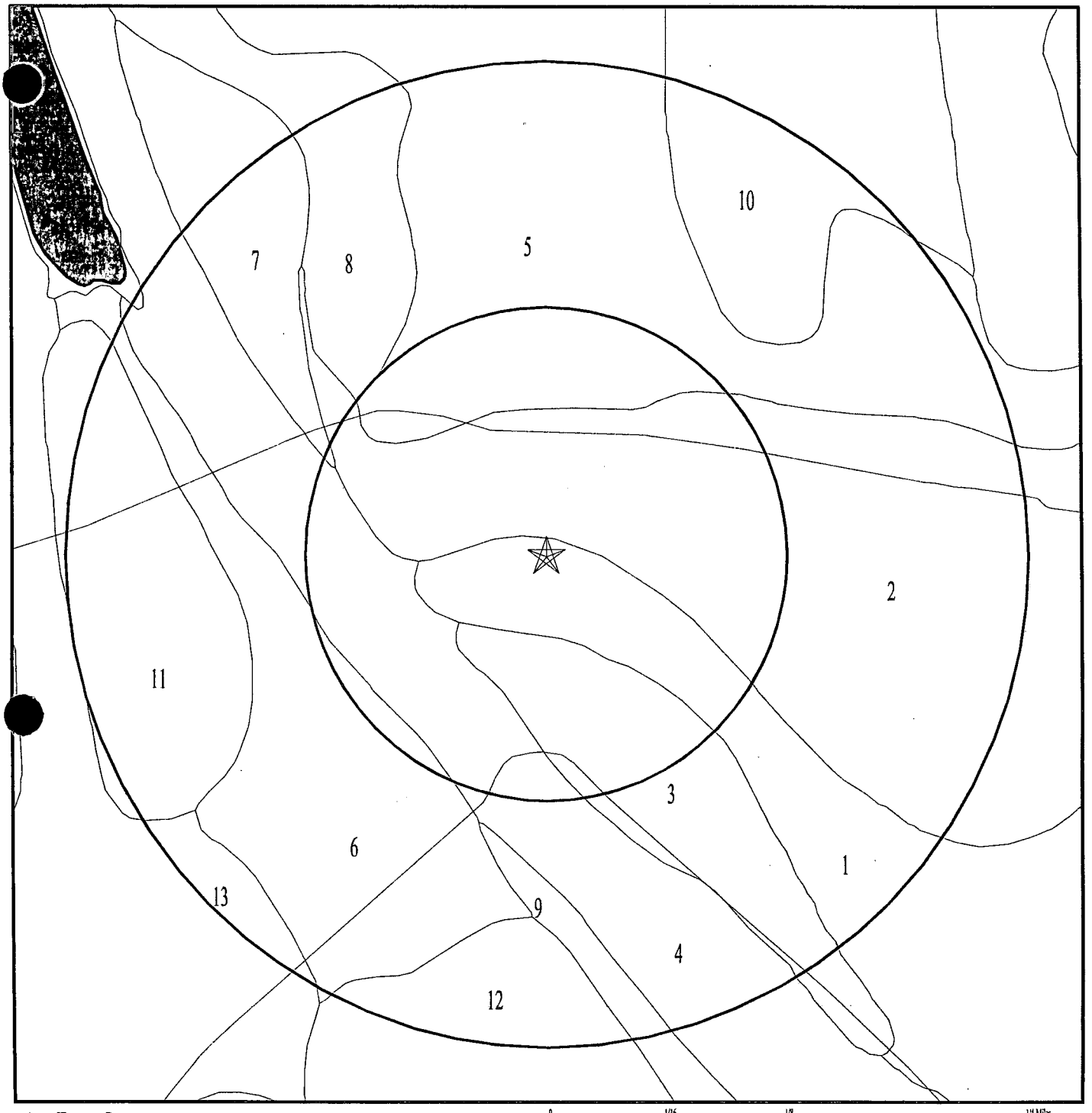
Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category:	Stratified Sequence
System:	Ordovicias		
Series:	Lower Ordovician and Cambrian carbonate rocks		
Code:	OC *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 2511937.1s



★ Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	115 Wall Street	CLIENT:	APEX Companies LLC
ADDRESS:	115 Wall Street Valhalla NY 10595	CONTACT:	Greg Mendez-Chicas
LAT/LONG:	41.0881 / 73.7878	INQUIRY #:	2511937.1s
		DATE:	June 04, 2009 4:58 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name:	Urban land
Soil Surface Texture:	
Hydrologic Group:	Not reported
Soil Drainage Class:	
Hydric Status: Unknown	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 61 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name:	Chatfield
Soil Surface Texture:	loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Low
Depth to Bedrock Min:	> 77 inches
Depth to Watertable Min:	> 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 0.07	Max: Min:
2	7 inches	24 inches	flaggy silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 0.07	Max: Min:
3	24 inches	27 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 0.07	Max: Min:

Soil Map ID: 3

Soil Component Name: Paims

Soil Surface Texture: muck

Hydrologic Group: Class A/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	muck	A-8	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 1.4	Max: Min:
2	9 inches	48 inches	muck	A-8	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 1.4	Max: Min:
3	48 inches	61 inches	loam	A-8	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 1.4	Max: Min:

Soil Map ID: 4

Soil Component Name: Udorthents

Soil Surface Texture: gravelly loam

Hydrologic Group: Class A/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 127 inches

Depth to Watertable Min: > 38 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	gravelly loam	Silt-Clay Materials (more than 35 pot. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 42 Min: 0.42	Max: 8.4 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	3 inches	72 inches	very gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 42 Min: 0.42	Max: 8.4 Min: 4.5

Soil Map ID: 5

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5
2	9 inches	20 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	20 inches	59 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 6

Soil Component Name: Udorthents

Soil Surface Texture: gravelly loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 127 inches

Depth to Watertable Min: > 84 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 0.42	Max: 8.4 Min: 4.5
2	3 inches	70 inches	very gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 0.42	Max: 8.4 Min: 4.5

Soil Map ID: 7

Soil Component Name: Sutton

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 42 Min: 4	Max: 6 Min: 4.5
2	9 inches	27 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 42 Min: 4	Max: 6 Min: 4.5
3	27 inches	59 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 42 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 8

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5
2	9 inches	20 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5
3	20 inches	59 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 9

Soil Component Name: Charlton

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertabie Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	7 inches	24 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	24 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 10

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5
2	9 inches	20 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5
3	20 inches	59 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 11

Soil Component Name: Riverhead

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	CCARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 7.3 Min: 4.5
2	5 inches	25 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 7.3 Min: 4.5
3	25 inches	29 inches	loamy sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 7.3 Min: 4.5
4	29 inches	59 inches	loamy sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	CCARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 7.3 Min: 4.5

Soil Map ID: 12

Soil Component Name: Riverhead

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SCILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 7.3 Min: 4.5
2	5 inches	25 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 7.3 Min: 4.5
3	25 inches	29 inches	loamy sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SCILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 7.3 Min: 4.5
4	29 inches	59 inches	loamy sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 7.3 Min: 4.5

Soil Map ID: 13

Soil Component Name: Woodbridge

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5
2	11 inches	29 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5
3	29 inches	59 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 14

Soil Component Name: Water

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS2128615	1/4 - 1/2 Mile SSE
2	USGS2128612	1/4 - 1/2 Mile South
3	USGS2128631	1/2 - 1 Mile West
4	USGS2128424	1/2 - 1 Mile ENE
5	USGS2128622	1/2 - 1 Mile WSW
A6	USGS2128626	1/2 - 1 Mile West
A7	USGS2128625	1/2 - 1 Mile West
B8	USGS2128440	1/2 - 1 Mile NNW
10	USGS2128430	1/2 - 1 Mile WNW
11	USGS2128439	1/2 - 1 Mile NW
12	USGS2128598	1/2 - 1 Mile SSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

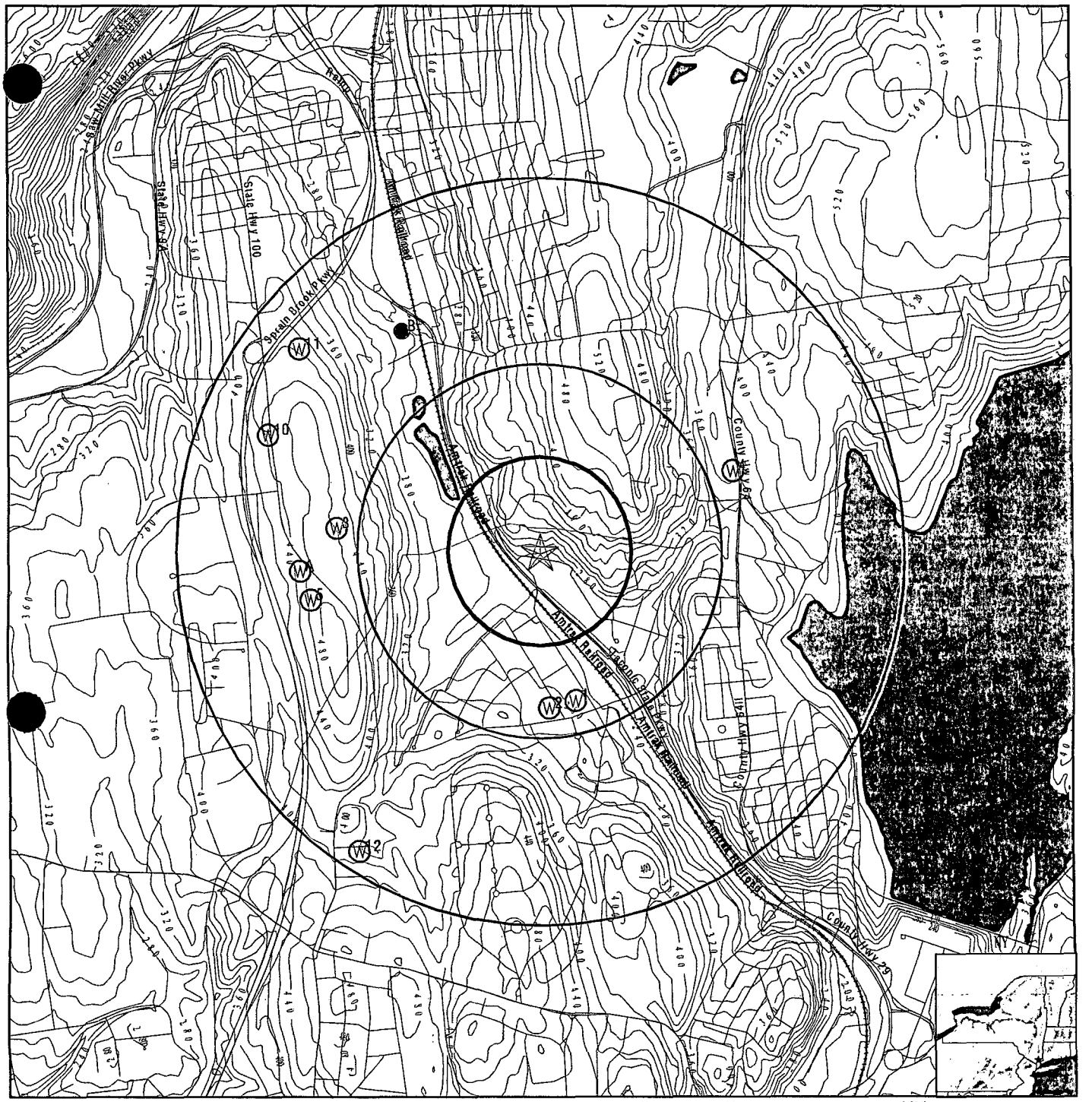
MAP ID	WELL ID	LOCATION FROM TP
B9	NY0003471	1/2 - 1 Mile NNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 2511937.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 115 Wall Street	CLIENT: APEX Companies LLC
ADDRESS: 115 Wall Street Valhalla NY 10595	CONTACT: Greg Mendez-Chicas
LAT/LONG: 41.0881 / 73.7878	INQUIRY #: 2511937.1s DATE: June 04, 2009 4:58 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 SSE 1/4 - 1/2 Mile Higher	FED USGS	USGS2128615

Agency cd:	USGS	Site no:	410456073471101
Site name:	WE 741		
Latitude:	410456		
Longitude:	0734711	Dec lat:	41.08231877
Dec lon:	-73.78596625	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	270.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Bronx. New York. Area = 190 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	110	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

	Database	EDR ID Number
2 South 1/4 - 1/2 Mile Higher	FED USGS	USGS2128612

Agency cd:	USGS	Site no:	410455073471601
Site name:	WE 742		
Latitude:	410455		
Longitude:	0734716	Dec lat:	41.08204099
Dec lon:	-73.78735518	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported

Altitude:	270.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Bronx. New York. Area = 190 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	TILL		
Well depth:	15.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

3
West
1/2 - 1 Mile
Higher

FED USGS **USGS2128631**

Agency cd:	USGS	Site no:	410520073475601
Site name:	WE 751		
Latitude:	410520		
Longitude:	0734756	Dec lat:	41.08898533
Dec lon:	-73.79846666	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	470.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Bronx. New York. Area = 190 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	479	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

4
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS2128424**

Agency cd:	USGS	Site no:	410528073464101
Site name:	WE 747		
Latitude:	410528		
Longitude:	0734641	Dec lat:	41.09120754
Dec lon:	-73.77763273	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	360.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Bronx. New York. Area = 190 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	287	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

5
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS2128622**

Agency cd:	USGS	Site no:	410510073480101
Site name:	WE 749		
Latitude:	410510		
Longitude:	0734801	Dec lat:	41.08620759
Dec lon:	-73.79985557	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	480.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Bronx. New York. Area = 190 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	218	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

A6
West
1/2 - 1 Mile
Higher

FED USGS **USGS2128626**

Agency cd:	USGS	Site no:	410514073480302
Site name:	WE 799		
Latitude:	410514		
Longitude:	0734803	Dec lat:	41.08731868
Dec lon:	-73.80041115	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	460.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Bronx. New York. Area = 190 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	325	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

A7
West
1/2 - 1 Mile
Higher

FED USGS **USGS2128625**

Agency cd:	USGS	Site no:	410514073480301
Site name:	WE 750		
Latitude:	410514		
Longitude:	0734803	Dec lat:	41.08731868
Dec lon:	-73.80041115	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	480.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Bronx. New York. Area = 190 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	224	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
B8 **NNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS2128440**

Agency cd:	USGS	Site no:	410547073474201
Site name:	WE 748		
Latitude:	410547		
Longitude:	0734742	Dec lat:	41.09648522
Dec lon:	-73.7945777	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	260.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Bronx. New York. Area = 190 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	196	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

	Database	EDR ID Number
B9 **NNW** **1/2 - 1 Mile** **Lower**	**FRDS PWS**	**NY0003471**

PWS ID:	NY0003471
Date Initiated:	Not Reported Date Deactivated: Not Reported
PWS Name:	HAWTHORNE IMPROVEMENT DIST 152 BRADY AVE. HAWTHORNE, NY 10532
Addressee / Facility:	System Owner/Responsible Party THATE ROBERT E BOARD OF WATER COMMISSIONERS 152 BRADY AVENUE HAWTHORNE, NY 10532

Facility Latitude:	41 05 48	Facility Longitude:	073 47 45
City Served:	MOUNT PLEASANT (T)		
Treatment Class	Not Reported	Population:	Not Reported

Violations information not reported.

10
WNW
1/2 - 1 Mile
Higher

FED USGS **USGS2128430**

Agency cd:	USGS	Site no:	410533073480901
Site name:	WE 757		
Latitude:	410533		
Longitude:	0734809	Dec lat:	41.09259638
Dec lon:	-73.8020779	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	440.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Hudson. Connecticut, New Jersey, New York. Area = 720 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

11
NW
1/2 - 1 Mile
Higher

FED USGS **USGS2128439**

Agency cd:	USGS	Site no:	410545073480301
Site name:	WE 738		
Latitude:	410545		
Longitude:	0734803	Dec lat:	41.09592967
Dec lon:	-73.8004112	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	440.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Hudson. Connecticut, New Jersey, New York. Area = 720 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	500	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

12
SSW
1/2 - 1 Mile
Higher

FED USGS USGS2128598

Agency cd:	USGS	Site no:	410435073475201
Site name:	WE 723		
Latitude:	410435		
Longitude:	0734752	Dec lat:	41.07648551
Dec lon:	-73.79735544	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	119
Country:	US	Land net:	Not Reported
Location map:	BULL GW-35	Map scale:	Not Reported
Altitude:	400.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Bronx. New York. Area = 190 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	185	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	BULLGW-35		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quaiity data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1955-00-00	Ground water data end date:	1955-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NY Radon

Radon Test Results

Zip	Num Sites	< 4 Pci/L	>= 4 Pci/L	>= 20 Pci/L	Avg > 4 Pci/L	Max Pci/L
10595	25	22 (88%)	3 (12%)	0 (0%)	1.60	5.0

Federal EPA Radon Zone for WESTCHESTER County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for WESTCHESTER COUNTY, NY

Number of sites tested: 650

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.930 pCi/L	97%	3%	0%
Basement	1.730 pCi/L	84%	13%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8056
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

Fax To: APEX Companies LLC
Contact: Greg Mendez-Chicas
Fax : 631-567-1967
Date: 06/04/2009

Fax From: Chris Courtney
EDR
Phone: 1-800-352-0050

EDR PUR-IQ® Report

"the intelligent way to conduct historical research"

for
115 Wall Street
115 Wall Street
Valhalla, NY 10595
Lat./Long. 41.08810 / 73.78780
EDR Inquiry # 2511937.1s

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports® comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

Potential for EDR Historical (Prior Use) Coverage - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

1. City Directory:	Coverage may exist for portions of Westchester County, NY.
2. Fire Insurance Map:	When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.
3. Aerial Photograph:	Coverage exists for portions of Westchester County for 1965, 1955, 1991, 1992, 1962, 1966, 1984, 1985, 1958, 1974, 1953, 1954, 1995, 1960, 1994 Shipping time 3-5 business days.
4. Topographic Map:	The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for WESTCHESTER County

Current: Target Property: TP | 1994 | 41073-A7 White Plains, NY

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for Valhalla, NY. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.

EDR™ Environmental
Data Resources Inc

EDR - HISTORICAL SOURCE(S) ORDER FORM

APEX Companies LLC
Greg Mendez-Chicas
Account # 1282285

115 Wall Street
115 Wall Street
Valhalla, NY 10595
WESTCHESTER County
Lat./Long. 41.08810 / 73.78780
EDR Inquiry # 2511937.1s

Should you wish to change or add to your order, fax this form to your EDR account executive:

Chris Courtney
Ph: 1-800-352-0050 Fax: 1-800-231-6802

Reports

___ EDR Sanborn Map® Search/Print

___ EDR Fire Insurance Map Abstract

___ EDR Multi-Tenant Retail Facility® Report

___ EDR City Directory Abstract

___ EDR Aerial Photo Decade Package

___ USGS Aerial **5** Package

___ USGS Aerial **3** Package

___ EDR Historical Topographic Maps

___ Paper Current USGS Topo (7.5 min.)

___ Environmental Lien Search

___ Chain of Title Search

___ NJ MacRaes Industrial Directory Report

___ EDR Telephone Interview

Shipping:

___ Email
___ Express, Next Day Delivery
___ Express, Second Day Delivery
___ Express, Next day Delivery Customer Account
___ Express, Second Day Delivery Customer Account
___ U.S. Mail

RUSH SERVICE IS AVAILABLE

Acct # _____
Acct # _____

Thank you

Appendix B

Town and County FOIL and Publically Available Data

Apex Companies, LLC

APEX COMPANIES, LLC
NEW YORK DIVISION
120-D WILBUR PLACE
BOHEMIA, NEW YORK 11716
PHONE 631-567-1777 FAX: 631-567-1967

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
Town Clerk	Greg Mendez-Chicas (ext.105)
COMPANY:	**DATE:**
Town of Mount Pleasant	June 1, 2009
FAX NUMBER:	**TOTAL NO. OF PAGES INCLUDING COVER:**
914-747-6172	2
PHONE NUMBER:	**SENDER'S REFERENCE NUMBER:**
(914) 742-2312	85144.001
RE:	**YOUR REFERENCE NUMBER:**
Freedom of Information request	85144.001

☐ URGENT X FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY X FOR INFORMATION

NOTES / COMMENTS:

To Whom It May Concern:

Enclosed herewith, please find a Freedom of Information Request regarding an industrial property located at One Commerce Park, 115 Wall Street, Valhalla, New York. Please contact me once information requested is available for review. I thank you in advance for anticipated cooperation and review in regard to this matter.

Sincerely,

Greg Mendez-Chicas

Apex Companies, LLC
"Where Excellence Meets Value"

Apex Companies, LLC
New York Division
120-D Wilbur Place
Bohemia, New York 11716
Telephone: 631-567-1777
Facsimile: 631-567-1967

June 1, 2009

Town Clerk
Town of Mount Pleasant
One Town Hall Plaza
Valhalla, New York 10595

Re: Freedom of Information Request
Information pertaining to former on-site sanitary waste disposal systems
One Commerce Park
115 Wall Street, Valhalla, New York 11542

To Whom It May Concern:

Apex Companies, LLC (Apex) has been retained to provide environmental consulting services with regard to the facility located at the above-referenced address. According to the Town of Valhalla Building Department, Apex understands that the property was connected to the municipal sewer system on August 13, 1992. As such, Apex is respectfully requesting information relating to former sanitary waste disposal methods that pre-date the municipal sewer system pipe-in. Specific information (as available) requested would include the following:

- Any construction/engineering plans associated with the installation of on-site sanitary waste disposal systems;
- Any historic site plans that depict the location and configuration of former and/or current on-site sanitary waste disposal systems at the property; and,
- Documentation pertaining to on-site sanitary waste disposal systems prior to the August 13, 1992 municipal sewer connection.

Thank you for your time and anticipated cooperation. Should you require any further information, please feel free to contact me at 631-567-1777 ext. 105.

Sincerely,
Apex Companies, LLC

Greg Mendez-Chicas
Environmental Scientist

Apex Companies, LLC
120-D WILBUR PLACE, BOHEMIA, NEW YORK 11716-2440

Project Name _____

Project No. _____ By _____ Checked _____

Date 7/11/09 Sheet ____ of ____

ATTN: NATASHA

FROM: GREG MENDEZ - CHICAS

RE: REQUEST FOR SEPTIC SYSTEM AND WELL RECORDS
115 WALL STREET, VALHALLA, NY

- ATTACHED HEREWITH, PLEASE FIND THE COMPLETED REQUEST FORM FOR THE ABOVE-INDICATED PROPERTY.

THANK YOU,

1-8-10
Natasha
No fee for
RSD

Print Form

WESTCHESTER COUNTY DEPARTMENT OF HEALTH
REQUEST FOR APPROVED SEPTIC SYSTEM AND WELL RECORDS

DATE: 6/29/09

NAME: Greg Mendez-Chicas
MAILING ADDRESS 120 Wilbur Place Suite D, Bohemia, NY 11716
TELEPHONE NUMBER 631-567-1777 Ext. 105

ITEMS THAT MAY BE REQUESTED FROM FILE, IF AVAILABLE

- ✓ CERT. OF CONSTRUCTION COMPLIANCE
- ✓ WELL COMPLETION REPORT
- ✓ DESIGN DATA SHEET
- ✓ # OF BEDROOMS APPROVED FOR
- ✓ AS-BUILT PLAN

****

PERTINENT INFORMATION REQUIRED:
(PLEASE CONTACT TAX ASSESSOR TO OBTAIN REQUIRED INFORMATION)

PRESENT OWNER: Diamond Properties, LLC
STREET ADDRESS 115 Wall Street, Valhalla, New York
TOWN: Mount Pleasant
ORIGINAL SECTION, BLOCK, LOT: Sec 12, Block 17, Lot 4
NEW SECTION, BLOCK, LOT.: Sec 117.6, Block 1, Lot 40
YEAR HOUSE CONSTRUCTED: Circa 1958
ORIGINAL OWNER'S/BUILDER'S NAME: Keating Electric & Technologies; Del Global Technologies Corp; Praedium II, LLC and Ferrand Controls Ferrand Optical
YEAR OF BEDROOM ADDITIONS N/A - Commercial Property

****

TO BE COMPLETED BY WCDOH PERSONNEL:
SECTION, BLOCK, LOT NUMBERS AT TIME _____
OWNERS NAME AT TIME _____
WCDOH FILE NUMBER: _____
APPROVAL DATE: _____
BOX NUMBER: _____

FILE ORDERED FROM RECORD CENTER
DATE: _____ INITIALS _____

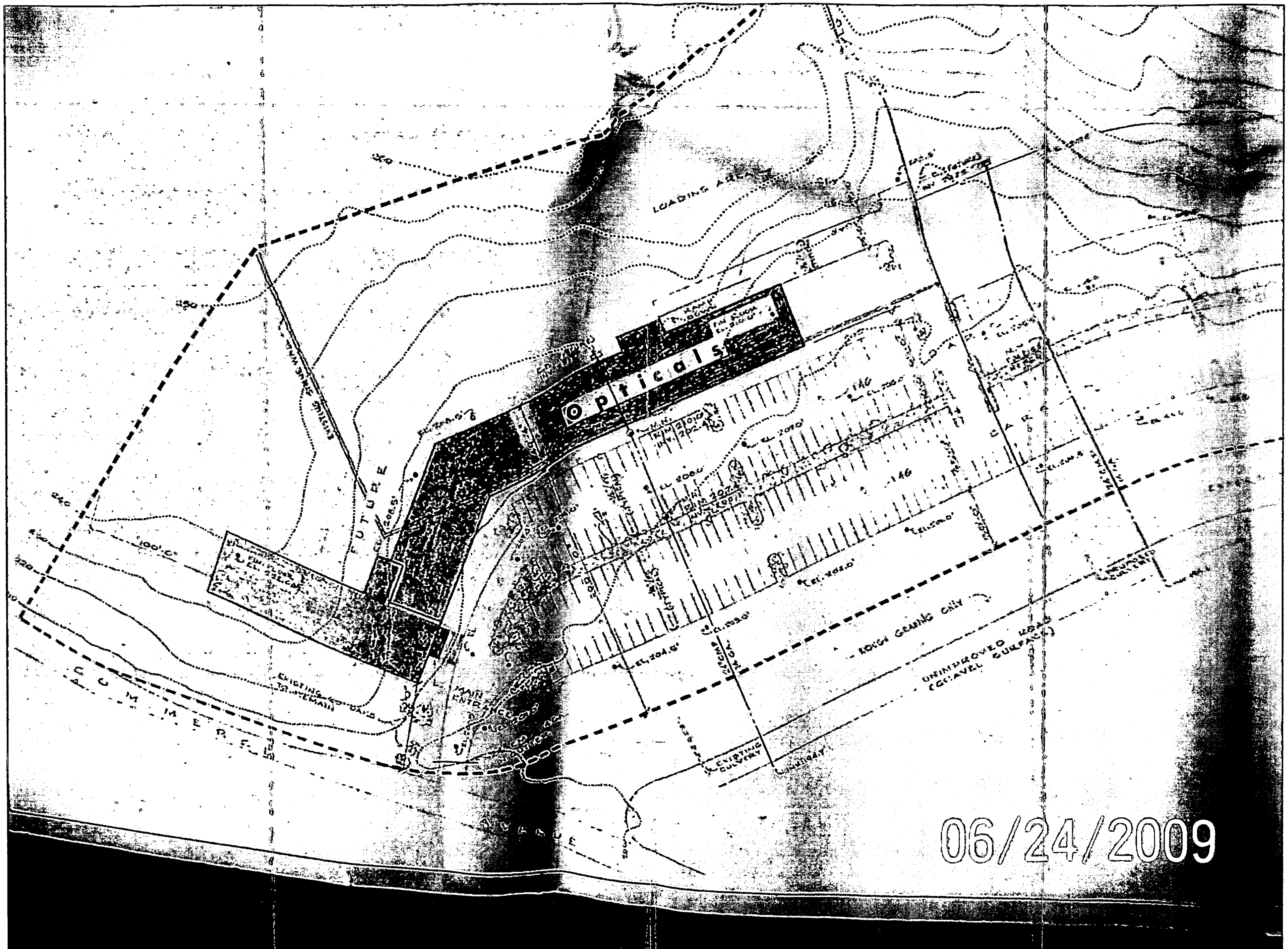
SKETCH BOOK NUMBER:
DATE: _____ INITIALS _____

RECORDS REQUESTED MAILED TO CALLER
DATE: _____ INITIALS _____

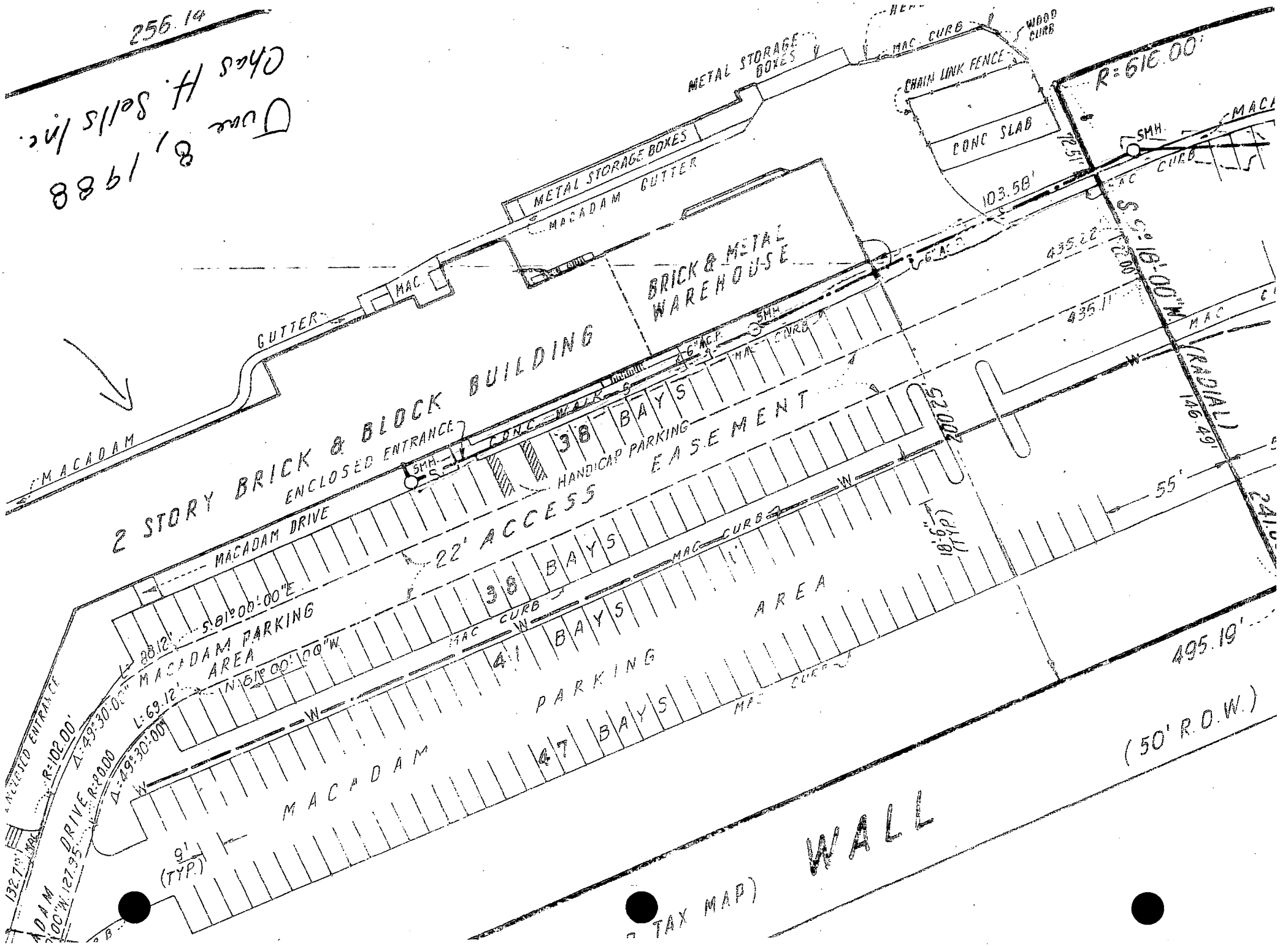
NO RECORD ON FILE, CALLER NOTIFIED
DATE: _____ INITIALS _____
NOTES: _____

COMPLETED FORMS CAN BE MAILED TO:
WESTCHESTER COUNTY DEPT. OF HEALTH -BEQ
118 North Bedford Road, Mount Kisco, NY 10549

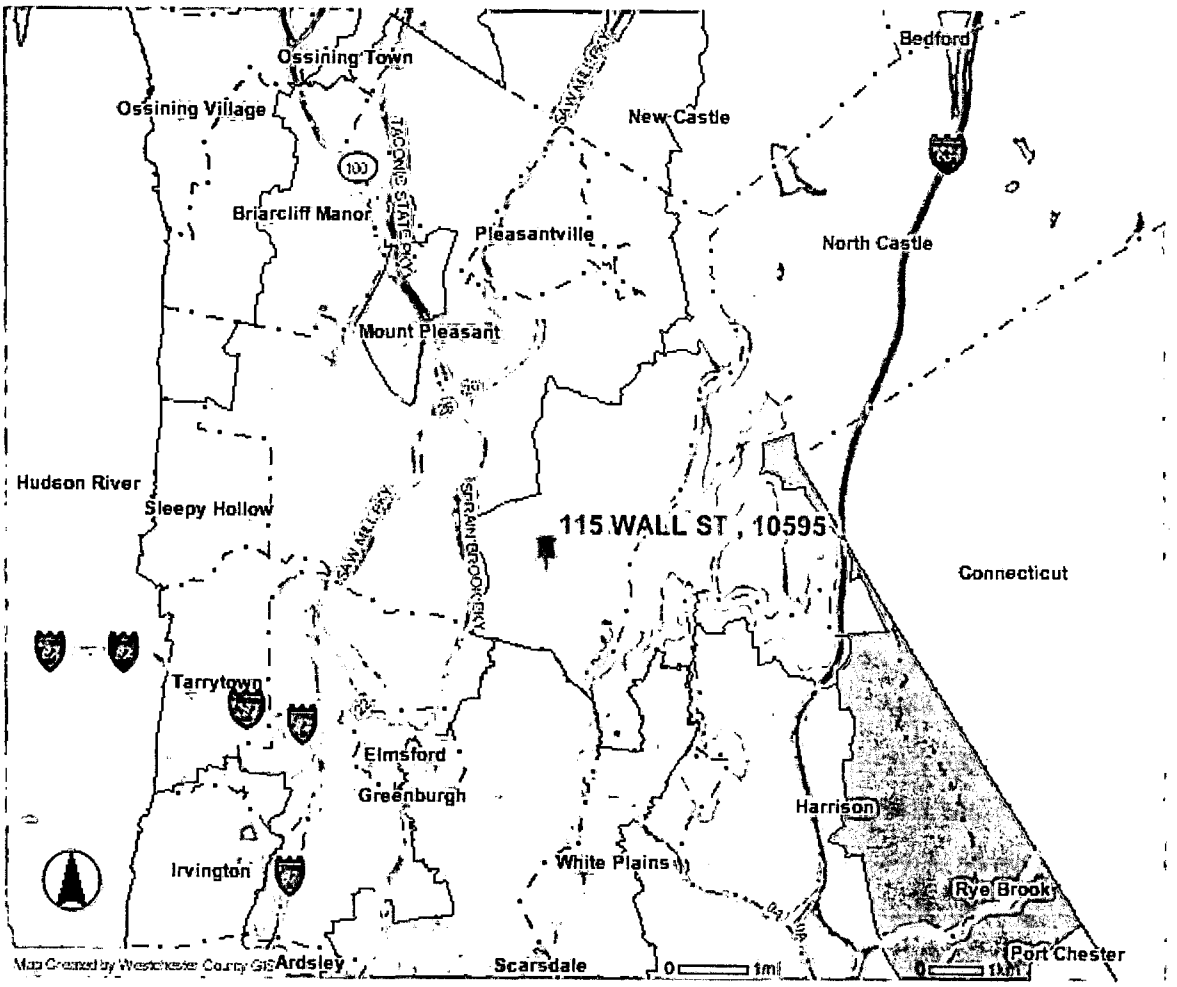
OR FAXED TO: 914-864-7341

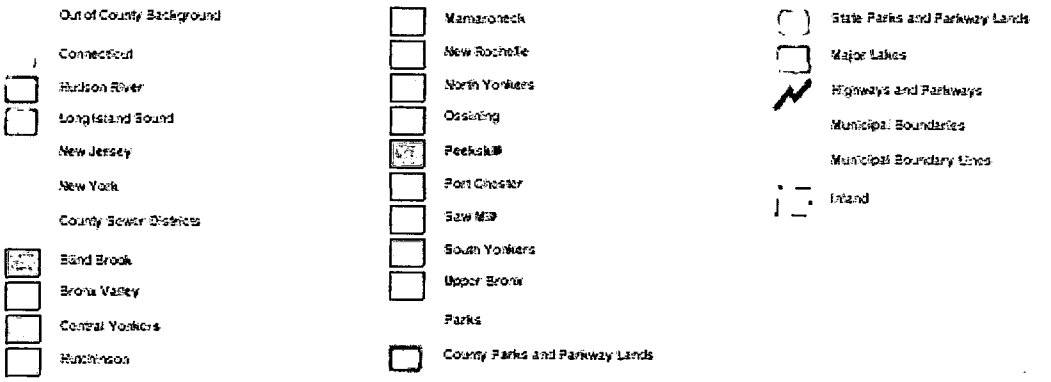


opticals
LOADING AREA
FUTURE
MAIN ENTRANCE
ROUGH GRADING ONLY
UNIMPROVED ROAD
(GRAVEL SURFACE)
EXISTING CULVERT
06/24/2009

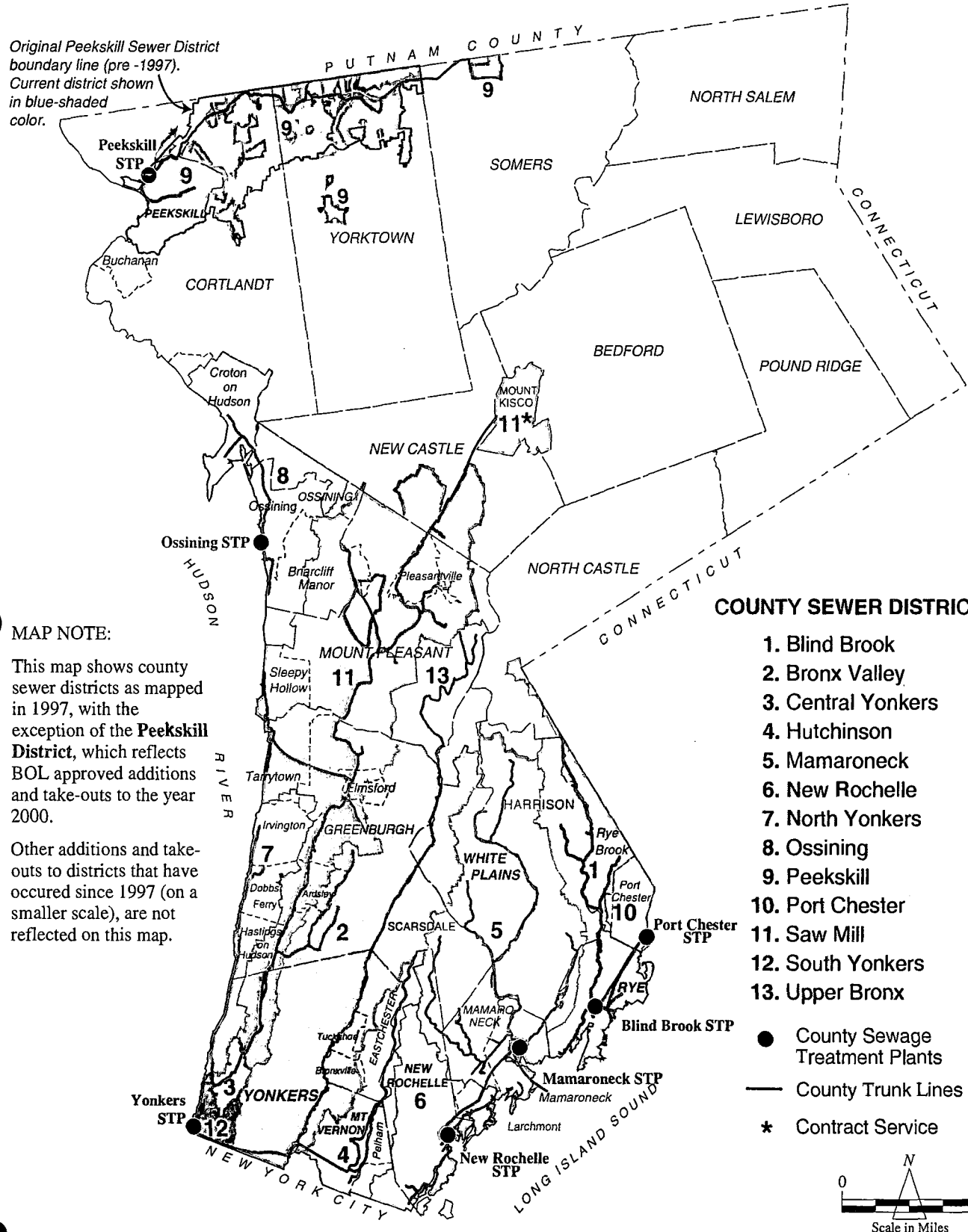

256.14
Chas H. Sells Inc.
Due 8/1988
METAL STORAGE BOXES
MAC CURB
WOOD CURB
CHAIN LINK FENCE
CONC SLAB
R=616.00'
SMH
MAC CURB
72.51'
103.58'
METAL STORAGE BOXES
MACADAM GUTTER
BRICK & METAL WAREHOUSE
435.22'
435.11'
S.C.E. 16.00' M.
GUTTER
MAC
6" ACP
SMH
CURB
MACADAM
2 STORY BRICK & BLOCK BUILDING
ENCLOSED ENTRANCE
CONC
MAC
38 BAYS
HANDICAP PARKING
EASEMENT
S2.00'
MACADAM DRIVE
22' ACCESS
W
(RADIAL)
146.49'
55'
241.
S:81°00'00"E
88.12'
MACADAM PARKING AREA
N:81°00'00"W
L:69.12'
Δ:49°30'00"
R:102.00'
Δ:49°30'00"
R:80.00
L:69.12'
W
38 BAYS
MAC CURB
W
18.96' (TYP.)
41 BAYS
PARKING AREA
MACADAM
47 BAYS
MAC CURB
495.19'
91' (TYP.)
(50' R.O.W.)
WALL
TAX MAP)

Upper Bronx Sewer Distict





WESTCHESTER COUNTY, NEW YORK



MAP NOTE:

This map shows county sewer districts as mapped in 1997, with the exception of the **Peekskill District**, which reflects BOL approved additions and take-outs to the year 2000.

Other additions and take-outs to districts that have occured since 1997 (on a smaller scale), are not reflected on this map.

COUNTY SEWER DISTRICTS

1. Blind Brook
2. Bronx Valley
3. Central Yonkers
4. Hutchinson
5. Mamaroneck
6. New Rochelle
7. North Yonkers
8. Ossining
9. Peekskill
10. Port Chester
11. Saw Mill
12. South Yonkers
13. Upper Bronx

● County Sewage Treatment Plants

—— County Trunk Lines

* Contract Service

N

0 4

Scale in Miles

Department of Planning 2003

Westchester gov.com

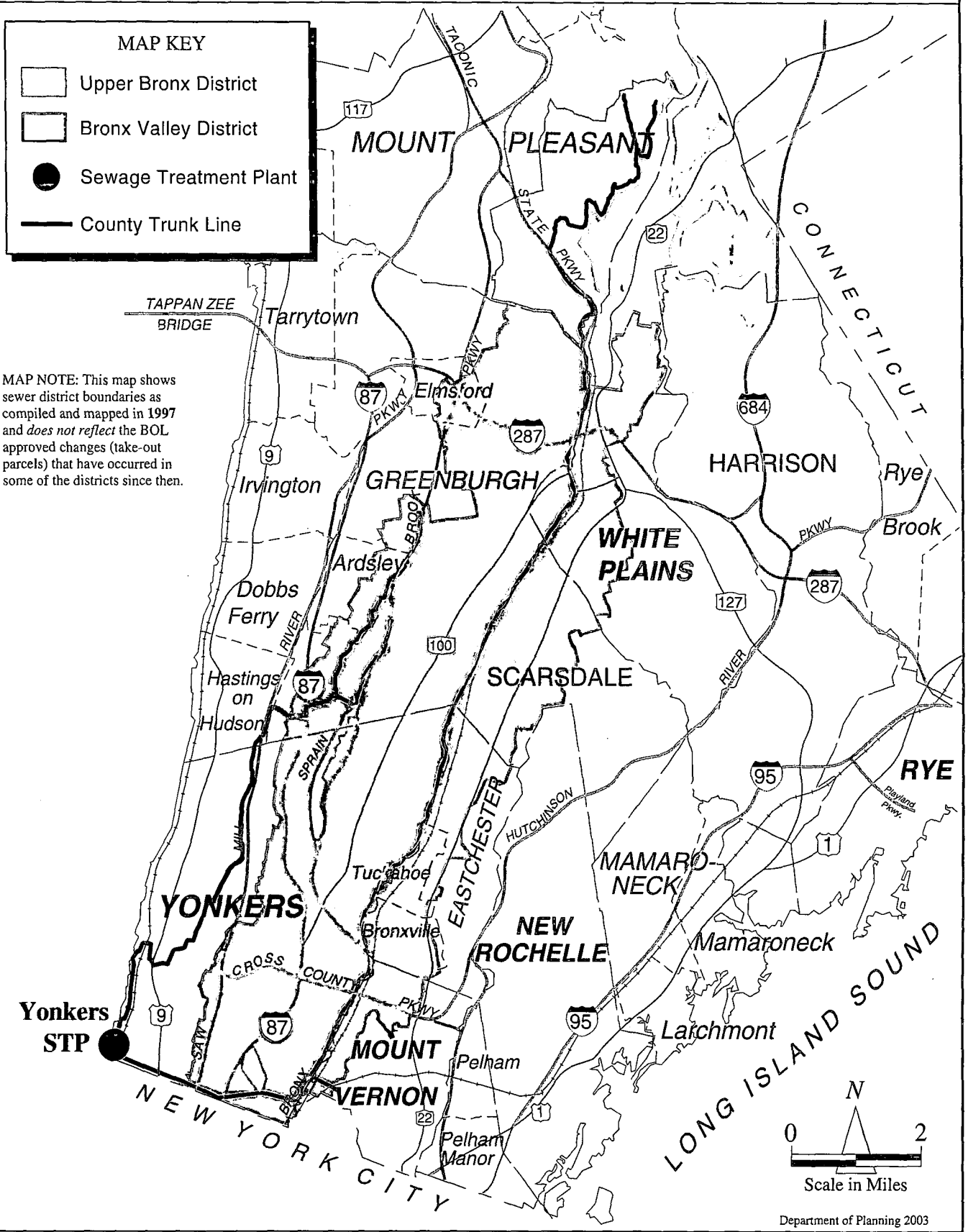
Andrew J. Spano, Westchester County Executive

County Board of Legislators

County Sewer Districts

432 Michaelian Office Building
148 Martine Avenue
White Plains, New York 10601
www.westchestergov.com/planning

WESTCHESTER COUNTY SEWER DISTRICTS



Department of Planning 2003

Westchester gov.com

Andrew J. Spano, Westchester County Executive
County Board of Legislators

Upper Bronx & Bronx Valley Sewer Districts

432 Michaelian Office Building
148 Martine Avenue
White Plains, New York 10601
www.westchestergov.com/planning

Appendix C

Passive Soil Vapor Sampling Information

BEACON ENVIRONMENTAL SERVICES, INC.

The Leaders in Soil Gas Surveys and Vapor Intrusion Monitoring

Apex Companies, LLC
120-D Wilbur Place
Bohemia, NY 11716
Attn: Richard Baldwin

Passive Soil Gas Survey – Analytical Report
Date: 02/26/2010

Beacon Project No. 2290

Project Reference:	**Apex Job No. 85164, Valhalla, NY**
Date(s) Samplers Installed:	**January 19 and 20, 2010**
Date(s) Samplers Retrieved:	**February 3, 2010**
Date Samples Delivered to BEACON:	**February 9, 2010**
Date Analyses Completed:	**February 18, 2010**

EPA Method 8260B
All samples were analyzed using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation to target a custom compound list following EPA Method 8260B. Laboratory results are reported in nanograms (ng) of specific compound per sample.

Laboratory QA/QC procedures included internal standards, surrogates, and blanks appropriate to EPA Method 8260B. Analyses and reporting were done in accordance with BEACON's Quality Assurance Program Plan.

Reporting limits for EPA Method 8260B
The contract required quantification limit (CRQL) is 25 ng for individual compounds. **Table 1** provides survey results in nanograms per cartridge by sample-point number and compound name. The quantification limit (<25 ng) represents a baseline above which results exceed laboratory-determined limits of precision and accuracy.

Calibration Verification
The continuing calibration verification (CCV) values for the analytes were all within ±30% of the true value as defined by the initial six point calibration and met the requirements specified in Beacon Environmental's Quality Assurance Project Plan.

Method Blanks/Trip Blanks
Laboratory method blanks are run with each sample batch to identify contamination present in the laboratory. If contamination is detected on a method blank, measurements of identical compounds in that sample batch are flagged in the laboratory report. The laboratory method blank analyzed in connection with the present samples revealed no contamination.

The trip blank is a sampling cartridge prepared, transported, and analyzed with other samples but intentionally not exposed. Any target compounds identified on the trip blanks are reported in the laboratory data. The analysis of the trip blank (labeled Trip-1 in **Table 1**) reported none of the targeted compounds.

Passive Soil-Gas Survey Notes

When sample locations are covered with or near the edge of an artificial surface (*e.g.*, asphalt or concrete), the concentrations of compounds in soil gas are often significantly higher than the concentrations would be if the surfacing were not present. Thus, a reading taken below or near an impermeable surface is much higher than it would be in the absence of such a cap. Therefore, the sample location conditions should be evaluated when comparing results between locations.

Survey findings are exclusive to this project and when the spatial relationships are compared with results of other BEACON Surveys it is necessary to incorporate survey and site information from both investigations (*e.g.*, depth to sources, soil types, porosity, soil moisture, presence of impervious surfacing, sample collection times). BEACON recommends the guidelines stated in **Attachment 1** to establish a relationship between reported soil-gas measurements and actual subsurface contaminant concentrations, which will indicate those measurements representing significant subsurface contamination.

Project Details

Samplers were deployed on January 19 and 20, 2010, and were retrieved on February 3, 2010. **Attachment 2** describes the field procedures used. Individual deployment and retrieval times will be found in the Field Deployment Report (**Attachment 3**).

Sixteen (16) field samples and one (1) trip blank were received by BEACON on February 9, 2010. Adsorbent cartridges from the passive samplers were thermally desorbed, then analyzed using gas chromatography/mass spectrometry (GC/MS) equipment, in accordance with EPA Method 8260B (Modified), as described in **Attachment 4.** BEACON's laboratory analyzed each cartridge for the targeted compounds; analyses were completed on February 18, 2010. Following a laboratory review, results were provided to Apex Companies on February 18, 2010. The Chain-of-Custody form, which was shipped with the samples for this survey, is supplied as **Attachment 5.**

ALL DATA MEET REQUIREMENTS AS SPECIFIED IN THE BEACON ENVIRONMENTAL SERVICES, INC. QUALITY ASSURANCE PROJECT PLAN. RELEASE OF THE DATA CONTAINED IN THIS DATA PACKAGE HAS BEEN AUTHORIZED BY THE LABORATORY DIRECTOR OR HIS SIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

Steven C. Thornley
Laboratory Director

Attachments:

-1- Applying Results From Passive Soil-Gas Surveys
-2- Field Procedures
-3- Field Deployment Report
-4- Laboratory Procedures
-5- Chain-of-Custody Form

Table 1

Beacon Environmental Services, Inc.
323 Williams Street
Bel Air, MD 21014

Analysis by EPA Method 8260B (Modified)

Client Sample ID:	MB	Trip-1	SV-1	SV-2	SV-3	SV-4
Project Number:	2290	2290	2290	2290	2290	2290
Lab File ID:	10021203	10021205	10021206	10021207	10021208	10021209
Received Date:		2/9/2010	2/9/2010	2/9/2010	2/9/2010	2/9/2010
Analysis Date:	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010
Analysis Time:	13:10	13:52	14:10	14:29	14:48	15:07
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Chloroethane	<25	<25	**36**	<25	<25	<25
Bromomethane	<25	<25	<25	<25	<25	<25
Vinyl Chloride	<25	<25	<25	<25	<25	<25
Chloromethane	<25	<25	**298**	**596**	**269**	**215**
Acetone	<25	<25	**177**	**293**	**179**	**195**
1,1-Dichloroethene	<25	<25	<25	<25	<25	<25
Methylene Chloride	<25	<25	<25	**25**	<25	<25
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
Carbon disulfide	<25	<25	<25	<25	<25	**75**
trans-1,2-Dichloroethene	<25	<25	<25	**40**	**49**	**38**
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
2-Butanone (MEK)	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25
Chloroform	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	<25	<25	<25	<25	<25	<25
1,2-Dichloropropane	<25	<25	<25	<25	<25	<25
Trichloroethene	<25	<25	**39**	<25	<25	<25
Bromodichloromethane	<25	<25	<25	<25	<25	<25
cis-1,3-Dichloropropene	<25	<25	<25	<25	<25	<25
4-Methyl-2-pentanone (MIBK)	<25	<25	<25	<25	<25	<25
trans-1,3-Dichloropropene	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	<25	<25	<25	<25	<25	<25
2-Hexanone	<25	<25	<25	<25	<25	<25
Dibromochloromethane	<25	<25	<25	<25	<25	<25
Tetrachlorocthenc	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	<25	<25	<25	<25	<25
p & m-Xylene	<25	<25	<25	<25	<25	<25
Bromoform	<25	<25	<25	<25	<25	<25
Styrene	<25	<25	<25	<25	<25	<25
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	<25	<25	<25	<25	<25	<25

Results in nanograms (ng). J = Estimated value less than five (5) times the method detection limit. B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
323 Williams Street
Bel Air, MD 21014

Analysis by EPA Method 8260B (Modified)

	Client Sample ID:	SV-5	SV-6	SV-7	SV-8	SV-9	SV-10
	Project Number:	2290	2290	2290	2290	2290	2290
	Lab File ID:	10021210	10021211	10021212	10021213	10021214	10021215
	Received Date:	2/9/2010	2/9/2010	2/9/2010	2/9/2010	2/9/2010	2/9/2010
	Analysis Date:	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010
	Analysis Time:	15:25	15:44	16:03	16:22	16:41	17:00
	Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS							
Chloroethane		<25	<25	<25	<25	<25	<25
Bromomethane		<25	<25	<25	<25	<25	<25
Vinyl Chloride		<25	<25	<25	<25	<25	<25
Chloromethane		**1,152**	**431**	**680**	**376**	**629**	**90**
Acetone		**47**	**2,535**	<25	**147**	<25	**30**
1,1-Dichloroethene		**43**	<25	<25	<25	<25	<25
Methylene Chloride		<25	**66**	<25	<25	<25	<25
1,1,2-Trichlorotrifluoroethane (Fr.113)		<25	<25	<25	<25	<25	<25
Carbon disulfide		<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene		<25	<25	<25	<25	<25	<25
1,1-Dichloroethane		<25	<25	<25	<25	<25	<25
2-Butanone (MEK)		**62**	**68**	<25	<25	<25	<25
cis-1,2-Dichloroethene		<25	<25	<25	<25	<25	<25
Chloroform		<25	<25	<25	<25	<25	<25
1,2-Dichloroethane		<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane		**52**	<25	<25	<25	<25	<25
Carbon Tetrachloride		<25	<25	<25	<25	<25	<25
Benzene		<25	<25	<25	<25	<25	<25
1,2-Dichloropropane		<25	<25	<25	<25	<25	<25
Trichloroethene		**181**	<25	<25	**27**	<25	<25
Bromodichloromethane		<25	<25	<25	<25	<25	<25
cis-1,3-Dichloropropene		<25	<25	<25	<25	<25	<25
4-Methyl-2-pentanone (MIBK)		<25	<25	<25	<25	<25	<25
trans-1,3-Dichloropropene		<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane		<25	<25	<25	<25	<25	<25
Toluene		<25	<25	<25	<25	<25	<25
2-Hexanone		<25	<25	<25	<25	<25	<25
Dibromochloromethane		<25	<25	<25	<25	<25	<25
Tetrachloroethene		<25	<25	<25	**28**	<25	<25
Chlorobenzene		<25	<25	<25	<25	<25	<25
Ethylbenzene		<25	<25	<25	<25	<25	<25
p & m-Xylene		<25	<25	<25	<25	<25	<25
Bromoform		<25	<25	<25	<25	<25	<25
Styrene		<25	**1,211**	<25	<25	<25	<25
1,1,2,2-Tetrachloroethane		<25	<25	<25	<25	<25	<25
o-Xylene		<25	<25	<25	<25	<25	<25

Results in nanograms (ng). J = Estimated value less than five (5) times the method detection limit. B = Detected in method blank.

Table 1

Beacon Environmental Services, Inc.
323 Williams Street
Bel Air, MD 21014

Analysis by EPA Method 8260B (Modified)

Client Sample ID:	SV-11	SV-12	SV-13	SV-14	SV-15	SV-16
Project Number:	2290	2290	2290	2290	2290	2290
Lab File ID:	10021216	10021217	10021218	10021219	10021220	10021221
Received Date:	2/9/2010	2/9/2010	2/9/2010	2/9/2010	2/9/2010	2/9/2010
Analysis Date:	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010
Analysis Time:	17:19	17:38	17:57	18:16	18:35	18:54
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Chloroethane	<25	<25	<25	<25	<25	<25
Bromomethane	<25	<25	<25	<25	<25	<25
Vinyl Chloride	<25	<25	<25	<25	<25	<25
Chloromethane	**658**	**2,637**	**484**	**5,356**	**3,155**	**569**
Acetone	<25	**183**	**43**	**147**	**137**	**37**
1,1-Dichloroethene	<25	<25	<25	<25	<25	<25
Methylene Chloride	<25	**41**	<25	<25	**45**	<25
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	**79**
Carbon disulfide	<25	**123**	**37**	**84**	**70**	<25
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
2-Butanone (MEK)	<25	**33**	<25	<25	<25	<25
cis-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25
Chloroform	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	**76**
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	<25	<25	<25	**28**	<25	<25
1,2-Dichloropropane	<25	<25	<25	<25	<25	<25
Trichloroethene	<25	<25	<25	<25	<25	<25
Bromodichloromethane	<25	<25	<25	<25	<25	<25
cis-1,3-Dichloropropene	<25	<25	<25	<25	<25	<25
4-Methyl-2-pentanone (MIBK)	<25	<25	<25	<25	<25	<25
trans-1,3-Dichloropropene	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	<25	<25	<25	<25	<25	<25
2-Hexanone	<25	<25	<25	<25	<25	<25
Dibromochloromethane	<25	<25	<25	<25	<25	<25
Tetrachloroethene	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	<25	<25	<25	<25	<25
p & m-Xylene	<25	**26**	<25	<25	<25	<25
Bromoform	<25	<25	<25	<25	<25	<25
Styrene	<25	<25	<25	<25	<25	<25
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	<25	<25	<25	<25	<25	<25

Results in nanograms (ng). J = Estimated value less than five (5) times the method detection limit. B = Detected in method blank.

Attachments

Attachment 1

APPLYING RESULTS FROM PASSIVE SOIL-GAS SURVEYS

The utility of soil-gas surveys is directly proportional to their accuracy in reflecting and representing changes in the subsurface concentrations of source compounds. Passive soil-gas survey results are the mass collected from the vapor-phase emanating from the source(s). The vapor-phase is merely a fractional trace of the source(s) and, as a matter of convenience, the units used in reporting detection values from passive soil-gas surveys are smaller than those employed for source-compound concentrations.

The critical fact is that, whatever the relative concentrations of source and associated soil gas, best results are realized when the ratio of soil-gas measurements to actual subsurface concentrations remains as close to constant as the real world permits. It is the reliability and consistency of this ratio, not the particular units of mass (*e.g.*, nanograms) that determine usefulness. Thus, BEACON emphasizes the necessity of conducting — at minimum — follow-on intrusive sampling in areas that show relatively high soil-gas measurements to obtain corresponding concentrations of soil and groundwater contaminants. These correspondent values furnish the basis for approximating a relationship. For extrapolating passive soil gas results to vapor intrusion evaluations, we recommend a minimum of three passive soil gas locations be converted to a shallow vapor well then sampled using an active soil gas method. Once a relationship is established, it can be used in conjunction with the remaining soil-gas measurements to estimate subsurface contaminant concentrations across the survey field. (See www.beacon-usa.com/passivesoilgas.html, Publication 1: *Mass to Concentration Tie-In for PSG Surveys* and Publication 4: *Groundwater and PSG Correlation.*) It is important to keep in mind, however, that specific conditions at individual sample points, including soil porosity and permeability, depth to contamination, and perched ground water, can have an impact on soil-gas measurements at those locations.

When passive soil-gas surveys are utilized as described above, the data provide information that can yield substantial savings in drilling costs and in time. They furnish, among other things, a checklist of compounds expected at each survey location and help to determine how and where drilling budgets can most effectively be spent. Passive soil-gas surveys can also be used as a remediation or general site monitoring tool that can be implemented on a quarterly, semi-annual or annual basis.

Attachment 2

FIELD PROCEDURES FOR PASSIVE SOIL-GAS SURVEYS

The following field procedures are routinely used during a BEACON Passive Soil-Gas Survey. Modifications can be and are incorporated from time to time in response to individual project requirements. In all instances, BEACON adheres to EPA-approved Quality Assurance and Quality Control practices.

A. Field personnel carry a BESURE Sample Collection Kit™ and support equipment to the site and deploy the passive samplers in a prearranged survey pattern. A passive sampler consists of a borosilicate glass vial containing hydrophobic adsorbent cartridges with a length of wire attached to the vial for retrieval. Although samplers require only one person for emplacement and retrieval, the specific number of field personnel required depends upon the scope and schedule of the project. Each Sampler emplacement generally takes less than two minutes.

B. At each survey point a field technician clears vegetation as needed and, using a hammer drill with a 1"- to 1½"-diameter bit, creates a hole 12 to 14 inches deep. [Note: For locations covered with asphalt, concrete, or gravel surfacing, the field technician drills a 1"- to 1½"-diameter hole through the surfacing to the soils beneath]. The hole is then sleeved with a 1"-diameter metal sleeve.

C. The technician then removes the solid plastic cap from a sampler and replaces it with a Sampling Cap (a plastic cap with a hole covered by screen meshing). The technician inserts the sampler, with the Sampling Cap end facing down, into the hole (**see attached figure**). The sampler is then covered with an aluminum foil plug and soils for uncapped locations or, for capped locations, an aluminum foil plug and a concrete patch. The sampler's location, time and date of emplacement, and other relevant information are recorded on the Field Deployment Form

D. One or more trip blanks are included as part of the quality-control procedures.

E. Once all the passive samplers have been deployed, field personnel schedule sampler recovery and depart, taking all other equipment and materials with them.

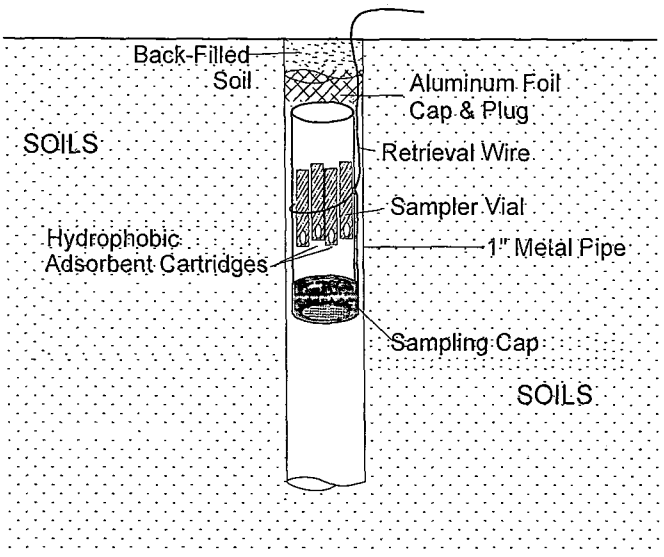
F. Field personnel retrieve the samplers at the end of the exposure period. At each location, a field technician withdraws the sampler from its hole, removes the retrieval wire, and wipes the outside of the vial clean using gauze cloth; following removal of the Sampling Cap, the threads of the vial are also cleaned. A solid plastic cap is screwed onto the vial and the sample location number is written on the label. The technician then records sample-point location, date, time, etc. on the Field Deployment Form.

G. Sampling holes are refilled with soil, sand, or other suitable material. If Samplers have been installed through asphalt or concrete, the hole is filled to grade with a plug of cold patch or cement.

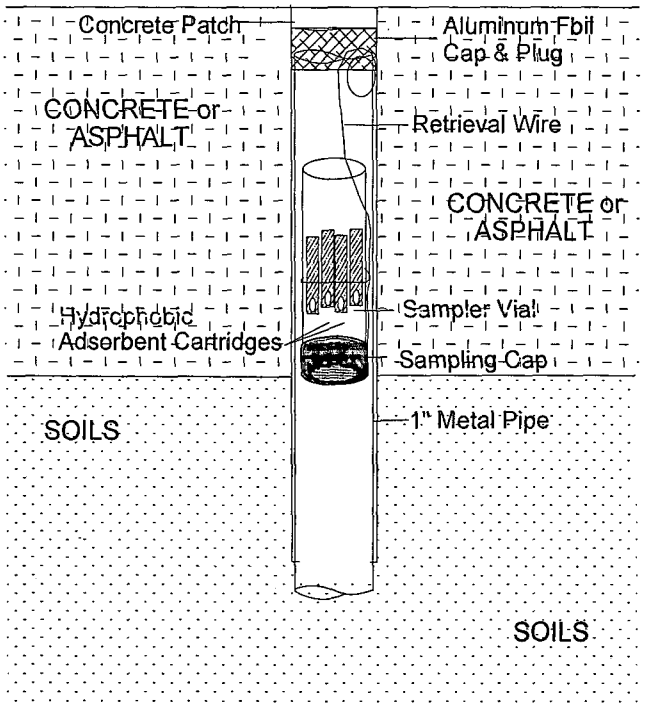
H. Following retrieval, field personnel ship or transport the passive samplers to BEACON's laboratory.

BEACON PASSIVE SAMPLER

DEPLOYMENT THROUGH SOILS



DEPLOYMENT THROUGH AN ASPHALT/CONCRETE CAP



Attachment 3

Field Deployment Report

PASSIVE SOIL-GAS SURVEY
FIELD DEPLOYMENT REPORT

Project Information	
Beacon Project No.:	2290
Site Name:	Apex Job No. 85164
Site Location:	Valhalla, NY

BEACON ENVIRONMENTAL SERVICES, INC.

Client Information	
Company Name:	Apex Companies, LLC
Office Location:	Bohemia, NY
Samples Collected By:	

Installed By: Robert M. Bennett

FIELD SAMPLE ID	Date Emplaced / Time Emplaced	Date Retrieved / Time Retrieved	Sampling Hole Depth (inches)	FIELD NOTES (e.g., asphalt/concrete/gravel, description of sample location, PID/FID readings)
	1/19/2010	2/3/2010		
SV-5	0940	1115	30"	8" concrete slab, PID=0.0, warehouse St R, lot of graveling med brn sandy soil
SV-4	1035	1200	36"	8" concrete slab, PID=0.0, moved location from hallway to adjacent office, med-brown sandy soil
SV-3	1135	1245	30-36"	8" concrete slab, PID=0.0, server / storage room, med-brn sandy soil
SV-2	1230	1255	30"	6-8" concrete slab, PID=0.0, select telecom warehouse, med-brn sandy soil
SV-1	1320	1135	24-30"	6-8" concrete slab, PID=0.0, vacant office, med-brn sandy soil
SV-6	1420	1405	24-30"	18" concrete slab, PID=0.0, storage room outside rock climbing gym, med-brn sandy soil
SV-12	1455	1310	36"	4-6" asphalt, PID=1.7, next to handicapped parking in front of select telecom, med-brn sandy soil
SV-13	1525	1350	36"	4-6" asphalt, PID=2.4, bottom of ramp, med-brn sandy soil
SV-14	1600	1435	36"	4-6" asphalt, PID=2.0, parking lot across from "the Cliffs", med-brn sandy soil
SV-15	1620	1420	36"	4-6" asphalt, PID=0.6, parking lot/border of Farmal Controls property, med-brn sandy soil

PASSIVE SOIL-GAS SURVEY
FIELD DEPLOYMENT REPORT

Project Information	
Beacon Project No.:	2290
Site Name:	Apex Job No. 85164
Site Location:	Valhalla, NY

BEACON ENVIRONMENTAL SERVICES, INC

Client Information	
Company Name:	Apex Companies, LLC
Office Location:	Bohemia, NY
Samples Collected By:	

FIELD SAMPLE ID	Date Emplaced / Time Emplaced	Date Retrieved / Time Retrieved	Sampling Hole Depth (inches)	FIELD NOTES (e.g., asphalt/concrete/gravel, description of sample location, PID/FID readings)
SV-9	1/20/2010 0930	2/3/2010 1230	36"	bare ground, brown-silty sand, PID=0.0, embankment behind proposed SB/GW-8 location.
SV-8	1040	1215	36"	bare ground, wet brown silty sand, PID=0.0, embankment behind warehouse
SV-7	1130 ~~1130~~	1505	36"	bare ground, med-brown silty sand, PID=0.0, at bottom of stream/creek
SV-16	1230 ~~1230~~	1450	36"	bare ground, wet brown silty soil, PID=0.0, outside dumpster/container area
SV-11	1345	1320	36"	bare ground, med-brown silty sand, PID=0.0, on embankment next to select bedroom
SV-10	1440 ~~1440~~	1335	36"	bare ground, med-brown silty sand, PID=0.0, outside 2nd floor entrance to select bedroom

Attachment 4

LABORATORY PROCEDURES FOR PASSIVE SOIL-GAS SAMPLES

Following are laboratory procedures used with BEACON Passive Soil-Gas Surveys, a screening technology for expedited site investigation. After exposure, adsorbent cartridges from the passive samplers are analyzed using U.S. EPA Method 8260B as described in the Solid Waste Manual (SW-846), a capillary gas chromatographic/mass spectrometric method, modified to accommodate high temperature thermal desorption of the adsorbent cartridges. This procedure is summarized as follows:

A. The adsorbent cartridges are loaded with internal standards and surrogates prior to loading the autosampler with the cartridges. The loaded cartridges are purged in a helium flow. Then the cartridges are thermally desorbed in a helium flow onto a focusing trap. Any analytes in the helium stream are adsorbed onto a focusing trap.

B. Following trap focusing, the trap is thermally desorbed onto a DB-VRX 20 m, 0.18 mm ID, 1.00 micron filament thickness capillary column.

C. The GC/MS is scanned between 35 and 270 Atomic Mass Units (AMU) at 3.12 scans per second.

D. BFB tuning criteria and the initial five-point calibration procedures are those stated in method SW846-8260B. System performance and calibration check criteria are met prior to analysis of samples. A laboratory method blank is analyzed after the daily standard to determine that the system is contaminant-free.

E. The instrumentation used for these analyses includes:

- Agilent 6890-5973 Gas Chromatograph/Mass Spectrometer;
- Markes Unity thermal desorber;
- Markes UltrA autosampler; and
- Markes Mass Flow Controller Module.

Attachment 5

Chain-of-Custody Form

CHAIN-OF-CUSTODY
PASSIVE SOIL-GAS SAMPLES

Project Information	
Beacon Project No.:	2290
Site Name:	Apex Job No. 85164
Site Location:	Valhalla, NY
Analytical Method:	EPA Method 8260B
Target Compounds:	Beacon Project Number 2290 Target Compound List

BEACON ENVIRONMENTAL SERVICES, INC.

Client Information	
Company Name:	Apex Companies, LLC
Office Location:	Bohemia, NY
Samples Submitted By:	Robert M. Bennett
Contact Phone No.:	631-567-1777 x 112

Field Sample ID	Lab Sample ID (for lab use only)	Comments (only necessary if problem or discrepancy) Condition of sample or vial	Date	Time	Initial
SV-1	2290 SV-1		2/3/10	1135	RMB
SV-2	2290 SV-2			1255	
SV-3	2290 SV-3			1245	
SV-4	2290 SV-4			1200	
SV-5	2290 SV-5			1115	
SV-6	2290 SV-6			1405	
SV-7	2290 SV-7			1505	
SV-8	2290 SV-8			1215	
SV-9	2290 SV-9			1230	
SV-10	2290 SV-10			1335	
SV-11	2290 SV-11			1320	
SV-12	2290 SV-12			1310	
SV-13	2290 SV-13			1350	
SV-14	2290 SV-14			1435	
SV-15	2290 SV-15			1420	
SV-16	2290 SV-16			1450	
Trip Blank	2290 Trip-1			-	

Shipment of Field Kit to Site — Custody Seal # 1036845 ✓ Intact? (Y) N

Relinquished by:	Date/Time	Courier	Received by:	Date/Time
Ryan Schell	01-14-2010 / 1700 Hours	FedEx	Robert M. Bennett	1-18-10 / 1200PM

Shipment of Field Kit to Laboratory — Custody Seal # 1036846 Intact? (Y) N

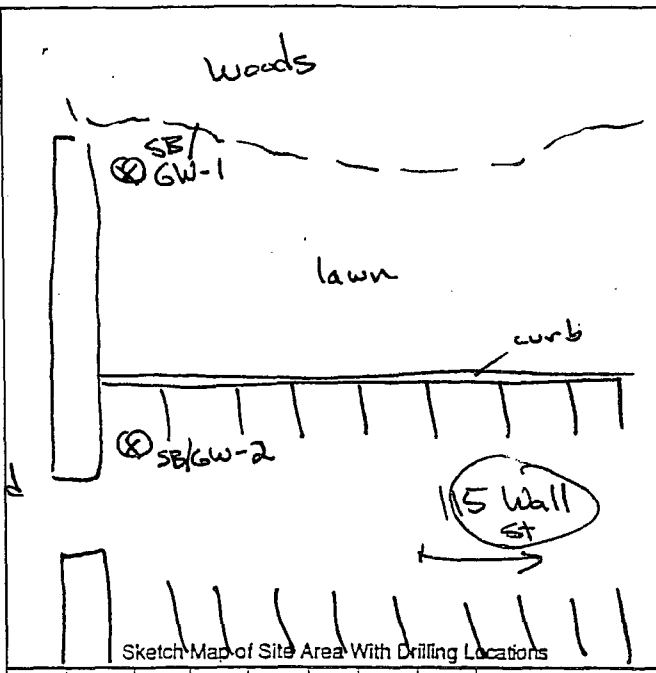
Relinquished by:	Date/Time	Courier	Received by:	Date/Time
Robert M. Bennett	2.4.10 / 1000 AM	Fed Ex	Steven Thornley	2.9.2010 / 11:00 am

Appendix D

Soil Boring / Monitoring Well Completion Logs

Shallow Direct Push Soil Boring Logs

Apex Companies, LLC



Sketch Map of Site Area With Drilling Locations

Boring # SB-1 MW# Sheet 1 of 1

Project: Valhalla - Chantis

Job # 85164.003 Site: Valhalla NY

Logged By: RMB Proj. Eng: DDS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method: Geoprobe

Drillers Name: Scott / Ernesto

Borehole Diam./Drill Bit Type: 2" macro core — Total Depth — Ref. Elev.

Hammer Wt: ~400 lb Drop: precession hammer

Start Time: 1100 Date: 2/8/10

Completion Time: 1200 Date: 2/8/10

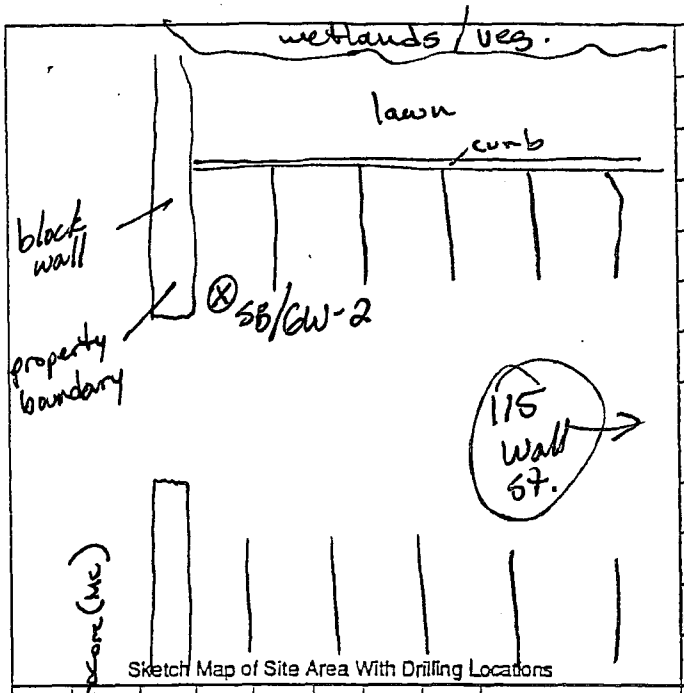
Backfill Time: Date: 2/8/10

	1st Water			
Boring Depth (ft.)	10'			
Casing Depth (ft.)	10'			
Water Depth (ft.)	≤ 10'			
Time	1200			
Date	2/8/10			

— GW —

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth: Sample Rec. Analyses	Depth: Feet	
Ø	MC 0'		60	36	SB1 (0-3)				1	light brn sand w/ gravel (50%) med brn sand w/ gravel
Ø									2	med brown sand + clay w/ gravel (50%)
Ø									3	
									4	
									5	
	MC 5'		60	48	SB1 (5-8)				6	dark brown silty clay
Ø									7	
Ø									8	
Ø									9	
									10	
									11	
									12	

N-2



Sketch Map of Site Area With Drilling Locations

Boring # SB-2 MW# Sheet 1 of 1

Project: Chartis - Valhalla

Job # 85164.003 Site: Valhalla NY

Logged By: RMB Proj. Eng: DDS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method: Geoprobe

Drillers Name: Scott / Ernesto

Borehole Diam./Drill Bit Type — Total Depth: 10'

Ref. Elev.

Hammer Wt: ~400 lb Drop: hammer

Start Time: 0850 Date: 2/8/10

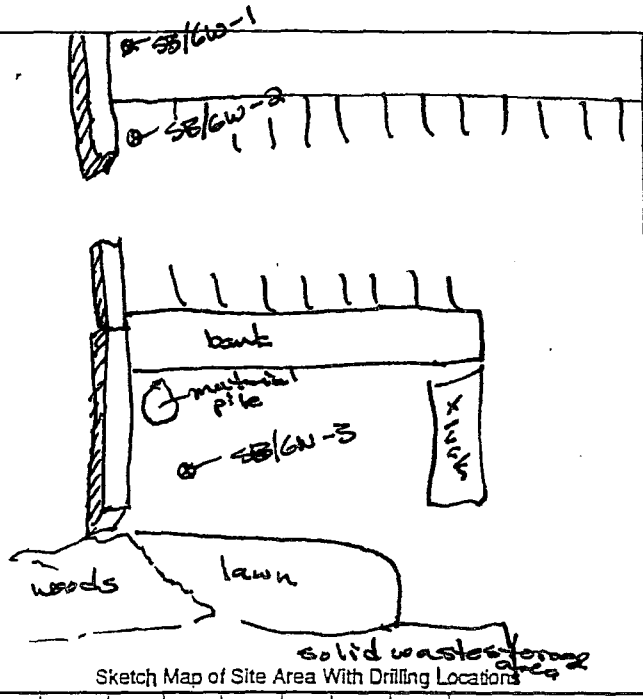
Completion Time: 1030 Date: 2/8/10

Backfill Time: Date: 2/8/10

	1st Water	— GW —	
Boring Depth (ft.)	10'	S	11-15'
Casing Depth (ft.)	10'	I	24-28'
Water Depth (ft.)	10'	D	46-50'
Time	1000		
Date	2/8/10		

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)	Casing Type & Size	Annulus Filler	Depth: Sample Rec. Analyses	Depth: Feet	
	MC 0'		60"	40"				0	gray-brown sand and gravel (50% gravel)
1.8								1	brown sand w/ gravel
1.4					SB-2 (0-3.5)			2	↓
Ø				↓				3	silty brown sand w/ gravel
			↓					4	↓ (60% gravel
								5	
Ø	MC 5'		60	48"				6	silty brown sand w/ gravel
Ø					SB-2 (5-9)			7	med brown silt (>90% silt)
Ø				↓				8	↓
Ø			↓					9	dark brown silty (100% silt) clay
								10	↓
								11	
								12	

N-2



Sketch Map of Site Area With Drilling Locations

Boring # SB-3 MW# Sheet 1 of 1

Project: Chartis - Valhalla

Job # 85164.003 Site: Valhalla NY.

Logged By: RMB Proj. Eng: DTS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method: Geoprobe

Drillers Name: Scott / Ernesto

Borehole Diam./Drill Bit Type | Total Depth | Ref. Elev.

Hammer Wt: Drop:

Start Time: Date:

Completion Time: Date:

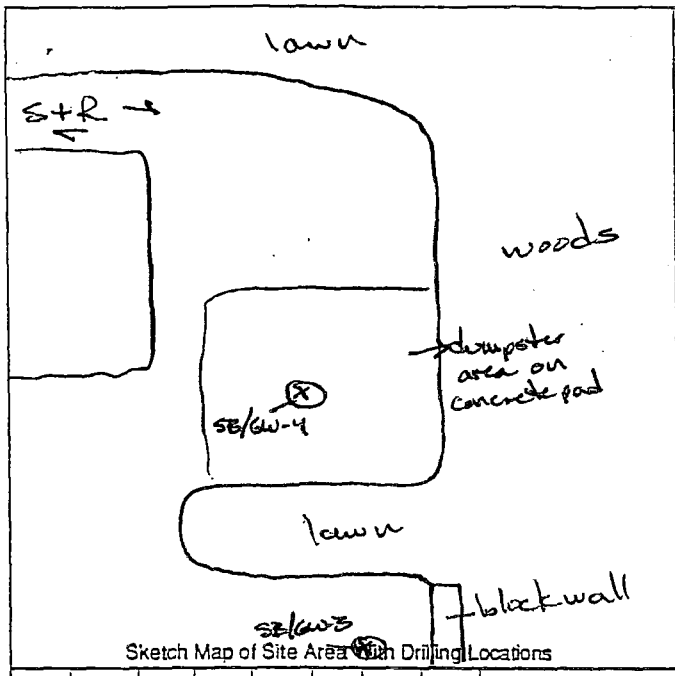
Backfill Time: Date:

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth: Sample Rec. Analyses	Depth: Foot	
	MC		60	48						light sand w/ gravel (50%)
Ø	0'								1	
										med brown sand w/ silt and gravel (50%)
Ø					SB-3 (0-4)				2	
										brown sandy clay w/ gravel
Ø									3	
									4	
									5	
Ø	5'		60	48						dk brown sand w/ silty clay
									6	
Ø										dk brown silty clay
					SB-3 (5-9)				7	
Ø									8	
									9	
									10	
									11	
									12	

N-2

Blind Dup → SB-9 (0-2)



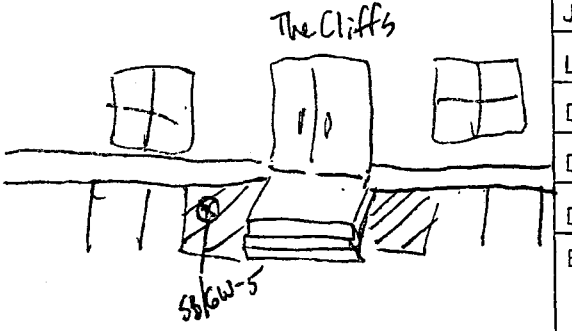
Sketch Map of Site Area With Drilling Locations

Boring #SB-4/9 MW#	Sheet of
Project:	
Job #	Site:
Logged By:	Proj. Eng: Edited By:
Drilling Contractor:	
Drill Rig Type/Method:	
Drillers Name:	
Borehole Diam./Drill Bit Type	Total Depth / Ref. Elev.
Hammer Wt:	Drop:
Start Time:	Date:
Completion Time:	Date:
Backfill Time:	Date:

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 In.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth: Sample Rec. Analyses	Depth: Foot	
	NC		60"	36"						med brown sand w/ gravel (80%)
Ø	0'								1	
Ø									2	
Ø									3	
									4	
	5'		60	48					5	med brown sand w/ silt and gravel (60%)
Ø									6	
Ø									7	
Ø									8	dk brown damp sand + silt w/ gravel
									9	
									10	
									11	
									12	

N-2



Sketch Map of Site Area With Drilling Locations

Boring # SB5 MW# Sheet of

Project: Valhalla

Job # 85164.005 Site: Valhalla

Logged By: PMB Proj. Eng: DJS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method: Geoprobe

Drillers Name: Scott / Ernesto

Borehole Diam./Drill Bit Type | Total Depth | Ref. Elev.

Hammer Wt: Drop:

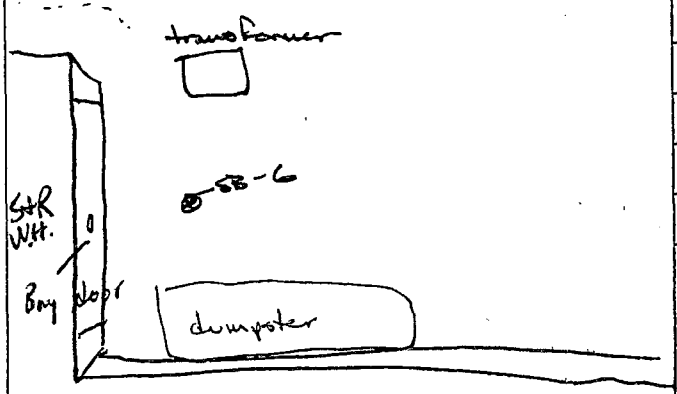
Start Time: Date:

Completion Time: Date:

Backfill Time: Date:

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts/6in	Advance (in.)	Recovered (in.)	Casing Type & Size	Annulus Filler	Sample Rec. Analyses	Depth Feet	
∅		60	40				SB-5 (0-5)	1	med brown sandy gravel
∅								2	dk brown sandy silt
∅								3	
								4	
		60	48				SB-5 (5-9)	5	fine silts and sand, dk brown
∅								6	
∅								7	
∅								8	
								9	
								10	
								11	
								12	



Sketch Map of Site Area With Drilling Locations

Boring #SB-6 MW# Sheet 1 of

Project: Chartis Valhalla

Job # 85164.003 Site: Valhalla NY.

Logged By: RMB Proj. Eng: DDS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method: Geoprobe

Drillers Name: Scott / Ernesto

Borehole Diam./Drill Bit Type Total Depth Ref. Elev.

Hammer Wt: Drop:

Start Time: Date:

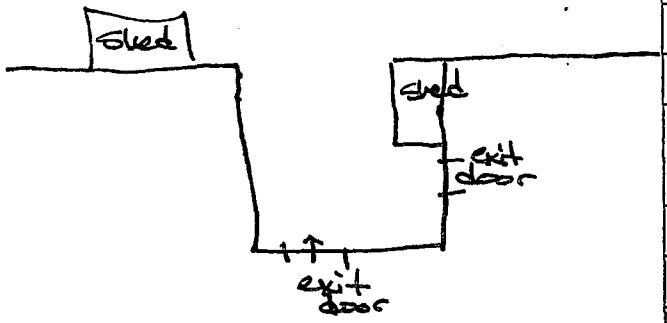
Completion Time: Date:

Backfill Time: Date:

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth Sample Rec. Analyses	Depth Feet	
	MC		60						0	gray sand w/ gravel (25%)
1.7	SS 0'								1	brown/gray sand w/ silt and gravel
1.9									2	
0.7									3	
									4	
									5	med brown sand w/ silt
	SS 5'		60						6	very silty / clay (gray/brn)
Ø									7	due
Ø									8	bedrock - refusal
Ø									9	
	Bedrock								10	
									11	
									12	

N-2



Sketch Map of Site Area With Drilling Locations

Boring # SB-7 MW#	Sheet of
Project: Valhalla - Geoprobe	
Job # 85164.003 Site: Valhalla	
Logged By: RMB Proj. Eng: DJS Edited By:	
Drilling Contractor: LAWES	
Drill Rig Type/Method: "U-bangy" / handauger	
Drillers Name: Scott / Ernesto	
Borehole Diam./Drill Bit Type	Total Depth / Ref. Elev.
Hammer Wt: Drop:	
Start Time: Date:	
Completion Time: Date:	
Backfill Time: Date:	

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth: Sample Rec. Analyses	Depth: Foot	
	MC 0'		60"	40"					1	dark brown sand w/ silt and gravel
									2	med brown sand w/ silt
									3	
									4	
									5	
	MC 5'		24"	24"					6	med brown sand w/ heavy silt/clay mix
									7	
									8	Bedrock
									9	
									10	
									11	
									12	

Boring # SB3 MW# Sheet 1 of 1

Project: Valhalla

Job # 25164.003 Site: Valhalla

Logged By: RMB Proj. Eng: DJS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method: hand auger

Drillers Name: Scott / Ernesto

Borehole Diam./Drill Bit Type — Total Depth: 6'

Ref. Elev.

Hammer Wt: — Drop:

Start Time: Date:

Completion Time: Date:

Backfill Time: Date:

Sketch Map of Site Area With Drilling Locations

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth Sample Rec. Analyses	Depth Feet	
	MC 6'		60"	48"					0	med. brown sand (orange tint)
Ø									1	
Ø									2	
Ø									3	
									4	
									5	
Ø	MC 5'								6	med brown sand (orange tint)
Ø										Bedrock
									7	
									8	
									9	
									10	
									11	
									12	

N-2

Monitoring Well Soil Boring Logs

Apex Companies, LLC

1D

Boring # MW# 2D Sheet 1 of 4

Project: Chartis - Valhalla

Job # 85164 Site: One Commerce Park

Logged By: RMB Proj. Eng: DJS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method: split spoon

Drillers Name: Hoke / Kevin

Borehole Diam./Drill Bit Type: 4.5" Total Depth: 56'

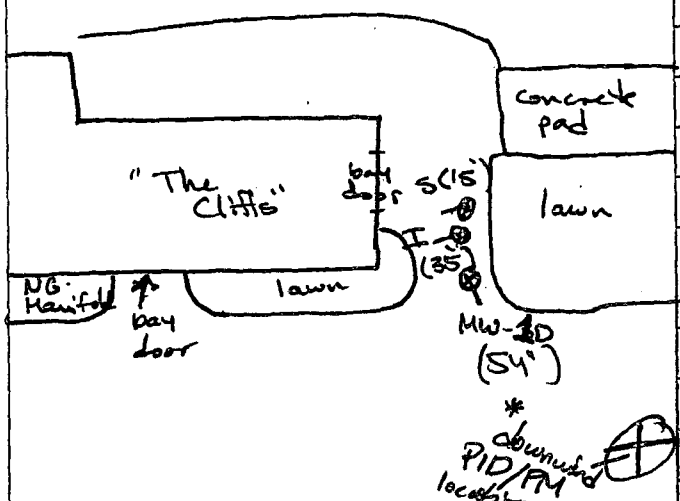
Ref. Elev.:

Hammer Wt: Drop:

Start Time: 0900 Date: 3/15/10

Completion Time: Date: 3/15/10

Backfill Time: Date:



Sketch Map of Site Area With Drilling Locations

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)	Casing Type & Size	Annulus Filler	Depth: Sample Rec. Analyses	Depth: Feet	
	Hand	NA	60"	60"	4" PVC cap	concrete			SP, dark gray/brown, light odor damp, silty sand,
1.8						spike		1	
0.4								2	SP, ~~dar~~ gray/brown, no odor,
0.0									damp, silty sand
0.0								3	
0.0								4	
								5	
0.0	SS	2	24	19		grout	X		SM, dark, gray brown, no odor
0.0		2					X	6	moist, very silty & organic
0.0		2					X		
		1						7	
	DA								
								8	
								9	
								10	
0.0	SS	3	24	10	PVC		X		SM, dark gray/brown, no odor
0.0		3					X	11	moist/wet, silty & organic
		5			2"				trace gravel
		6						12	

N-2

1D

Boring # MW# 35 Sheet 2 of 4

Project: Chantis - Valhalla

Job # 85164-005 Site: One Commerce Park

PID/OVA	Sampler Type	Blow Counts	Advance (in.)	Rcvd (in.)		Casing	Annulus	Depth Sample Rec.	Depth Analyses	Depth Feet	
	DA									12	
										13	
										14	
										15	
0.0	SS	12	24	4				X			SM, dark gray/brown, no odor, wet, silty sand, trace gravel
		12								16	
		13									
		18								17	
	DA										
										18	
										19	
										20	
0.0	SS	10	24	18				X			SM, dark gray/brown, no odor, wet, no gravel
0.0		13						X		21	SP, light brown sand, no odor, no gravel
0.0		15						X			
		14									
	DA									22	
										23	
										24	SP, dark gray/brown, no odor, no gravel
										25	
0.0	SS	9	24	18				X			
0.0		10						X		26	
0.0		13						X			
		16								27	
	DA										
										28	
										29	
										30	
	SS	18	24	24		2" PVC		X			SP, gray, no odor, no gravel fine sand
0.0		12						X		31	
0.0		14						X			
0.0		15						X		32	

N:2

Boring # MW# ~~80~~ 1D Sheet 3 of 4

Project: 85164.005

Job # One Commerce Park Site: Valhalla N.Y.

PID/OVA	Sampler Type	Blow Counts	Advance (In.)	Rcvd (In.)		Casing	Annulus	Sample Rec	Analyses	Depth (Feet)	Description
	DA		56							32	
										33	
										34	
0.0	SS	8	24	12				X		35	SP, gray silty sand (fine), wet, no odor
0.0		10						X			SP, brown sand, wet, no odor
		11								36	SP gray sand, trace gravel, no odor trace gravel
		13									
	DA									37	
										38	
										39	SP, Brown sand, no odor, wet trace gravel
0.0	SS	8	24	13				X		40	SP, brown sand, no odor, wet trace gravel.
0.0		10						X			
		11								41	
		13									
	DA									42	
							grout			43	
										44	
0.0	SS	6	24	24			Bentonite	X		45	SP, brown, no odor, wet, gravelly
		9						X			
0.0		9						X		46	
0.0		10					#00 sand	X			
	DA					8' solid PVC				47	
										48	
							#1 sand			49	
0.0	SS	9	24	18				X		50	SP, brown fine sand, wet, no odor gravelly
0.0		11						X		51	
0.0		13						X			
		14				10 slot				52	

1D

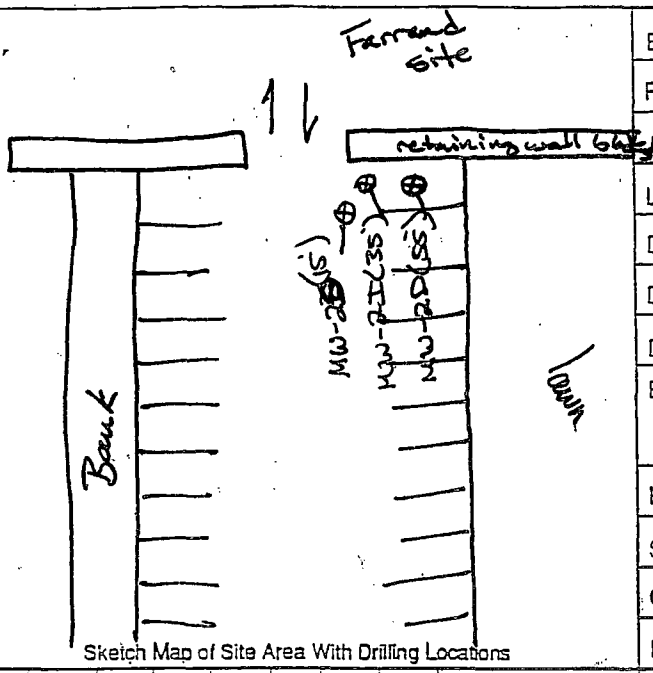
PID/OVA	Sampler Type	Blow Counts	Advance (in.)	Rcvd (in.)		Casing	Annulus	Depth: Sample Rec	Depth: Analyses	Depth: Feet
	DA					2" slotted PVC; CAP; #1 gravel pack				5 2 5 3 5 4 5 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2

Boring # MW# Sheet 4 of 4

Project: ~~85164~~ Chemtrics Valhalla

Job # 85164 Site: One Commerce Park

N-2



Sketch Map of Site Area With Drilling Locations

Boring #	MW# 2D Sheet 1 of 4
Project:	Valhalla – Chartis
Job #	85164 Site: One Commerce Park
Logged By:	RMB Proj. Eng: DTS Edited By:
Drilling Contractor:	LAWES
Drill Rig Type/Method:	
Drillers Name:	Kevin
Borehole Diam./Drill Bit Type	4.6" Total Depth / Ref. Elev.
Hammer Wt:	Drop:
Start Time:	0780 Date: 3/17/10
Completion Time:	Date:
Backfill Time:	Date:

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)	Casing Type & Size	Annulus Filler	Depth Sample Rec. Analyses	Depth Foot	
	hand		60"	60"	Splug cap	gravel / soil		1	SM, dark gray/brown, no odor, damp, some gravel (~20%)
0.0								2	
0.0								3	
0.0								4	
0.0							X	5	
0.0	SS	4	24	21					SM, dark gray/brown, no odor, moist, some gravel (~10%)
0.0		3						6	
0.0		1							
		1						7	~~SM~~ SC, organic rich silty clay/sand, dark gray/brown, no odor, very moist, ~~trace~~ trace gravel
	DA				PVC			8	
								9	
					2"			10	
0.0	SS	3	24	18					SC, organic rich clay/silt, dark gray/brown, no odor, wet, trace gravel
0.0		3						11	
0.0		2							SP, dark gray sand, no odor, no gravel
		2						12	

Boring # MW# 2D Sheet 2 of 4

Project: Valhalla - Chartis

Job # 85164 Site: One Commerce Park

PID/OVA	Sampler Type	Blow Counts	Advance (in.)	Rcvd (in.)		Casing	Annulus	Depth Sample Rec	Analyses	Feet	
	DA									12	
										13	
										14	
										15	SC
0.0	SS	3	24	24				X			~~OH~~, organic silty clay + sand, no odor
0.0		4						X			dark gray/brown, trace gravel
0.0		4						X		16	SP, dark gray, ~~silty sand~~ pockets of
0.0		5						X			OM throughout, no gravel, no odor
	DA									17	
										18	
										19	
										20	
0.0	SS	4	24	15				X			SC, silty clay + sand mix, no odor,
0.0		4						X		21	dark gray/brown, no gravel
0.0		5						X			
~~0.0~~		5								22	
	DA										
										23	
										24	
										25	
0.0	SS	3	24	16				X			OL, dark gray/brown, no odor
0.0		2						X		26	no gravel
0.0		2						X			
		3								27	
	DA										
										28	
										29	
										30	
0.0	SS	5	24	24				X			OL, dark gray/brown, no odor
0.0		5						X		31	no gravel
0.0		5						X			
		6								32	

N-2

Boring # MW# 2D Sheet 3 of 4

Project: Valhalla - Chantis

Job # 85164 Site: One Commerce Park

PID/OVA	Sampler Type	Blow Counts	Advance (in.)	Rcvd (in.)		Casing	Annulus	Depth Sample Rec.	Depth Analyses	Depth Feet	
	DA									32	
										33	
										34	
										35	
6.0	SS	4	24	24				X			OL, dark gray/brown, no odor
0.0		3						X		36	Moist, no gravel
6.0		4						X			
0.0		6						X		37	
	DA									38	
										39	
										40	
0.0	SS	[illegible]	24	24				X			OL, dark gray/brown, no odor,
0.0		6						X		41	Moist, no gravel
0.0		6						X			[illegible]
0.0		6, 19						X		42	
	DA									43	
										44	
										45	
0.0	SS	6 [illegible]	18	18				X			OL, dark gray/brown, no odor
0.0		9						X		46	moist, no gravel
0.0		15						X			SP, gray/brown sand, no odor
		19									gravel (10%) moist.
	DA									47	
										48	
										49	
										50	
0.0	SS	12	24	12		2" SCH 40 PVC		X			SP, brown sand, no odor, moist
0.0		15						X		51	trace gravel
		20									
		30								52	

N-2

Boring # MW# 2D Sheet 4 of 4

Project: Valhalla, Chartis

Job # 85164. Site: One Commerce Park

PID/OVA	Sampler Type	Blow Counts	Advance (In.)	Rcvd (In.)		Casing	Annulus	Depth Sample Rec / Analyses	Feet
	DA					2" Stick up PVC			52
									53
									54
						cap			55
0.0	55	50	24	6			#1 silica sand	X	56
									57
									58
									59
									60
									61
									62
									63
									64
									65
									66
									67
									68
									69
									70
									71
									72
									73
									74
									75
									76
									77
									78
									79
									80
									81
									82
									83
									84
									85
									86
									87
									88
									89
									90
									91
									92
									93
									94
									95
									96
									97
									98
									99
									00
									01
									02

SP, brown sand, no odor micaceous gold flakes, moist → rocky

↓ couldn't advance drill

N-2

Boring # MW# 2I Sheet 10 of 2

Project: Charles Valhalla

Job # 85164.004 Site: One Commerce Park

Logged By: RMB Proj. Eng: DDS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method:

Drillers Name: Kevin / Danny

Borehole Diam./Drill Bit Type Total Depth

Ref. Elev.

Hammer Wt: Drop:

Start Time: Date:

Completion Time: Date:

Backfill Time: Date:

Sketch Map of Site Area With Drilling Locations

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth: Sample Rec. Analyses	Depth: Feet
						5 plug manhole	concrete		1
									2
									3
									4
						2" PVC	Grout		5
									6
									7
									8
									9
									10
									11
									12

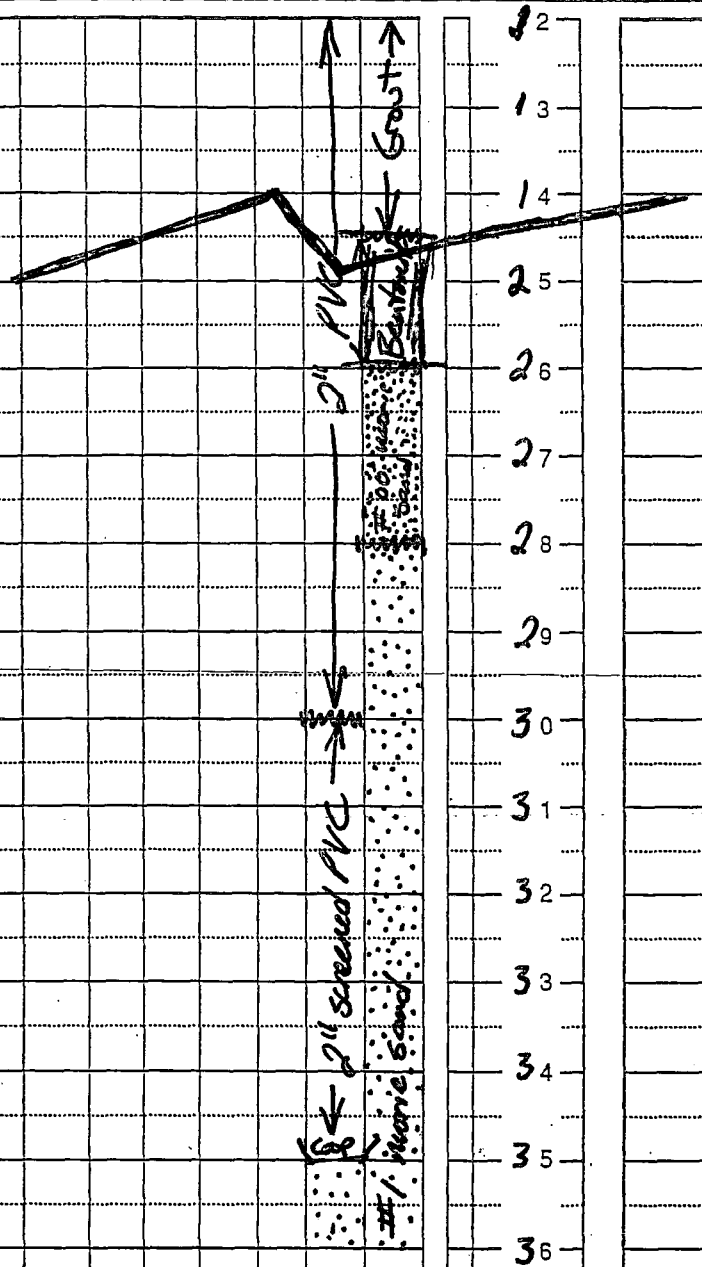
N-2

PID/OVA	Sampler Type	Blow Counts	Advance (in.)	Rcvd (in.)		Casing	Annulus	Depth Sample Rec / Analyses	Feet
									12
									13
									14
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									7
									8
									9
									0
									1
									2

Boring # MW# 2I Sheet 2 of 2

Project:

Job # Site:



N-2

Boring # MW# 25 Sheet 1 of 2

Project: Curtis - Valhalla

Job # 85764.004 Site: One Canada Park

Logged By: RMB Proj. Eng: DJS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method:

Drillers Name: Kevin / Danny

Borehole Diam./Drill Bit Type / Total Depth

Ref. Elev.

Hammer Wt: Drop:

Start Time: Date:

Completion Time: Date:

Backfill Time: Date:

Sketch Map of Site Area With Drilling Locations

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth Sample Rec. Analyses	Depth Feet
						2" PVC			1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12

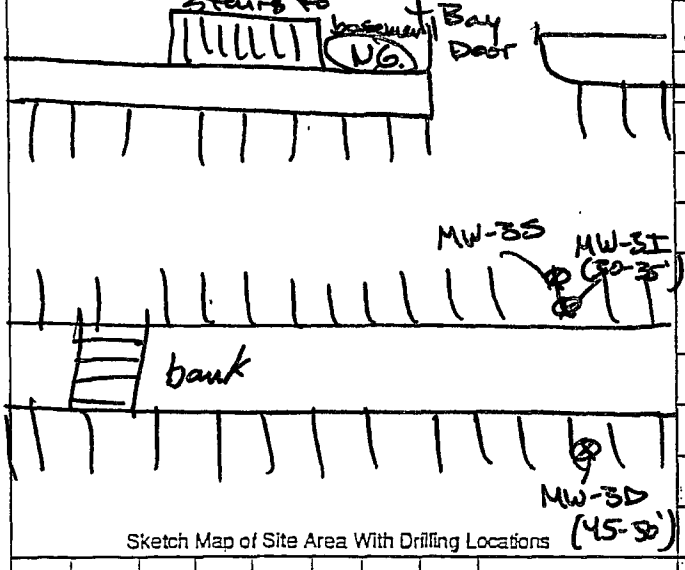
N-2

PID/OVA	Sampler Type	Blow Counts	Advance (In.)	Rcvd (In.)		Casing	Annulus	Depth: Sample Rec / Analyses	Depth: Feet	Boring # MW# 25 Sheet 2 of 2 Project: Job # Site:
									12	
									13	
									14	
									15	
									16	
									17	
									18	
									19	
									20	
									21	
									22	
									23	
									24	
									25	
									26	
									27	
									28	
									29	
									30	
									31	
									32	

N-2

3I

The Cliffs



Sketch Map of Site Area With Drilling Locations

Boring # MW# 3I Sheet 1 of 3

Project: Chantis - Valhalla

Job # 85164 Site: One Commerce Park

Logged By: RMB Proj. Eng: DJS Edited By: RJB

Drilling Contractor: LAWES

Drill Rig Type/Method: split spoon

Drillers Name: Kevin

Borehole Diam./Drill Bit Type: 2" Total Depth / Ref. Elev.

Hammer Wt: Drop:

Start Time: 0830 Date: 3/18/10

Completion Time: Date: 3/18/10

Backfill Time: Date:

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)	Casing Type & Size	Annulus Filler	Depth: Sample Rec. Analyses	Depth: Feet	
	hand		60	60	2" PVC screen	cement / bent.		1	SM, fine to med sand, med. brown, dry, no odor, 5% cobbles
						6"		2	→ silty sand, 10-20% fines, fine gravel
						mm		3	
								4	
								5	
0.0	SS	9	24	16			X		AA, rock fragments
0.0		19					X	6	
0.0		19					X		
		15						7	
	DA				2" PVC	Grout			
								8	
								9	
								10	
0.0	SS	15	24	8			X		AA, no rock fragments
0.0		22					X	11	
		24							
		19						12	

N-2

Boring # MW# 3I Sheet 2 of 3

Project: Chevalis - Valhalla

Job # 85164 Site: One Commerce Park

PID/OVA	Sampler Type	Blow Counts	Advance (in.)	Rcvd (in.)		Casing	Annulus	Depth Sample Rec / Analyses	Feet
	DA								12
									13
									14
									15
0.0	SS	7	24	12				X	
0.0		8						X	16
		8							
		9							17
	DA								
									18
									19
0.0	SS	8	24	24				X	20
0.0		11						X	21
0.0		11						X	
0.0		13						X	22
	DA								
									23
									24
									25
0.0	SS	14	24	16				X	
0.0		16						X	26
0.0		16						X	
		12							27
	DA								
									28
									29
									30
0.0	SS	9	24	18					
0.0		11							31
0.0		11							
		13							32

Casing: 2" PVC; 2" screened PVC

Annulus: Grout; Bentonite; 4x20 sand; 4" of sand

ML, sandy silt, organic rich, brown, no odor, damp

SP, fine to med sand, brown, no odor, moist

ML, sandy silt, gray-brown, no odor moist, 10% gravel

AA, color A light brown

SW, fine to coarse sand, brown, fine gravel

N-2

PID/OVA	Sampler Type	Blow Counts	Advance (in.)	Rcvd (in.)		Casing	Annulus	Depth Sample Rec / Analyses	Feet
	DA					2" Steel Pipe			32
							2" Sand		33
									34
						CAP	2" Sand		35
0.0	SS	11	24	6			#1	X	36
		14							
		15							37
		20							38
									39
									40
									41
									42
									43
									44
									5
									6
									7
									8
									9
									0
									1
									2

Boring # MW# 3I Sheet of

Project: Chevrés - Valhalla

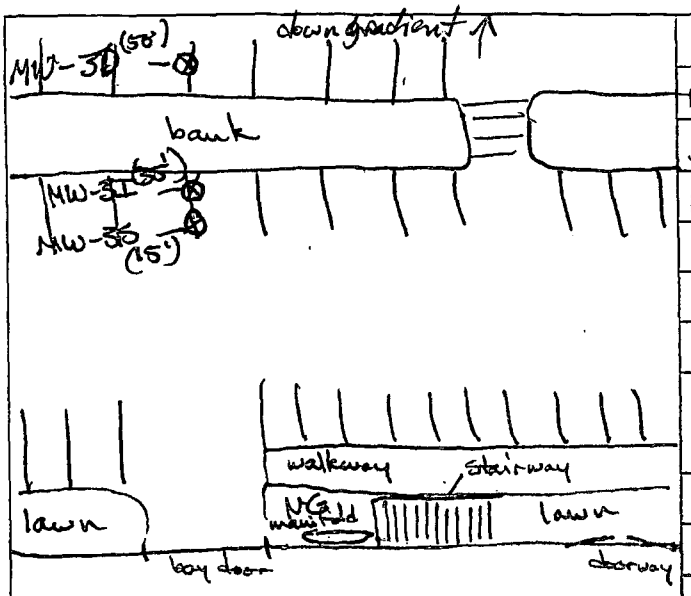
Job # 05164 Site: One Commerce Park

SP, fine to med sand, no odor brown, moist

SP, fine to med, AA

Rig Behavior / can't advance suspect weathered BR

N-2



The Cliffs
Sketch Map of Site Area With Drilling Locations

Boring # MW# 3I Sheet 1 of 3

Project: Chartis- Valhalla

Job # 85164 Site: One Commerce Park

Logged By: RMB Proj. Eng: JDS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method:

Drillers Name: Kein

Borehole Diam./Drill Bit Type: 4.5" Total Depth / Ref. Elev.

Hammer Wt: Drop:

Start Time: 0830 Date: 3/18/10

Completion Time: Date:

Backfill Time: Date:

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth Sample Rec. Analyses	Depth Feet
	hand		60			4" PVC flush mount	cement		0
							bentonite		1
									2
									3
									4
									5
0.0	SS	9	24	16					
0.0		19							6
0.0		19							
		15							7
	DA					2" PVC	Grout		
									8
									9
									10
0.0	SS	15	24	8					
0.0		22							11
		21							
		19							12

SM, brown fine-med sand/silt mix, dry, no odor, cobbles (5%)

SM, brown fine sand & silt, dry, no odor, crushed rock

SM, brown fine sand & silt mix, dry, no odor, [illegible]

N-2

Boring # MW# 3I Sheet 2 of 3

Project: Chartis - Valhalla

Job # 25164 Site: One Commerce Park

PID/OVA	Sampler Type	Blow Counts	Advance (in.)	Rcvd (in.)	Casing	Annulus	Depth Sample Rec	Depth Analyses	Depth Feet	
	DA								12	
									13	
									14	
									15	
0.0	SS	7	24	12			X			SC, organic rich silty sand - almost clay-like, brown, no odor, damp.
2.0		8					X		16	
[illegible]		8								
		9							17	
	DA									
									18	
									19	
									20	
0.0	SS	8	24	24			X			OL, silty clay, gray/brown, no odor, moist
0.0		11					X		21	SP, gray/brown, med - fine sand, no odor, moist
0.0		11					X			
0.0		13					X		22	
	DA									
									23	
									24	
									25	
0.0	SS	14	24	16			X			SC, silty-sandy-clay, gray/brown, no odor moist, gravel (10%)
0.0		16					X		26	
0.0		16					X			
		12							27	
	DA									
									28	
									29	
									30	
0.0	SS	9	24	18			X			OL, gray brown clay, no odor
0.0		11					X		31	
0.0		11					X			SP, brown, no odor, moist
		13							32	

Grout

2" PVC

2" Screened

N-2

Boring # MW# 3I Sheet 3 of 3

Project: @Curtis - Valhalla.

Job # 85164 Site: One Commerce Park

PID/OVA	Sampler Type	Blow Counts	Advance (in.)	Rcvd (in.)		Casing	Annulus	Depth Sample Rec	Depth Analyses	Depth Feet	
						2" Sch 40 PVC				32	
										33	
										34	
										35	
0.0	SS	11	24	6				X			SP, brown, no odor, moist
	↓	14	↓							36	
		15				#1 Sand					
	↓	20	↓							37	
	OH										
	↓					Bentonite				38	
						↑					
										39	
	↓										
0.0	SS	47	9	6				X		40	SP + weathered rock, brown, no odor, moist
	↓	60/5	↓			#1 sand				41	
						↓					
										42	
										43	
											↓
										44	Cannot advance drill
										45	
										46	
										47	
										48	
										49	
										50	
										51	
										52	

N-2

Boring # MW# 3D Sheet 1 of 2

Project: Chevalis Valhalla

Job # 25164.004 Site: One Commerce Park

Logged By: RMG Proj. Eng: DS Edited By:

Drilling Contractor: LAWES

Drill Rig Type/Method:

Drillers Name: Kevin / Anthony

Borehole Diam./Drill Bit Type

Total Depth

Ref. Elev.

Hammer Wt: Drop:

Start Time: Date:

Completion Time: Date:

Backfill Time: Date:

Sketch Map of Site Area With Drilling Locations

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth Sample Rec. Analyses	Depth Foot
						4" plus concrete manhole bott			0
									1
									2
									3
									4
									5
									6
						2" PVC	Grout		7
									8
									9
									10
									11
									12

N-2

PID/OVA	Sampler Type	Blow Counts	Advance (In.)	Rcvd (In.)		Casing	Annulus	Sample Rec	Analyses	Feet		Boring # MW# 50 Sheet 2 of 2
												Project:
												Job # Site:

Depth (Feet): 2, 3, 4, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 2

Casing: 2" PVC (to 45); 2" Screened PVC (45–50)

Annulus: Grout (to 40); Bentonite (40–42); #00 Monterey Sand (42–43); Sand (45 down)

N-2

35 1

Boring # MW# 35 Sheet 1 of 2

Project:

Job # Site:

Logged By: Proj. Eng: Edited By:

Drilling Contractor:

Drill Rig Type/Method:

Drillers Name:

Borehole Diam./Drill Bit Type Total Depth

Ref. Elev.

Hammer Wt: Drop:

Start Time: Date:

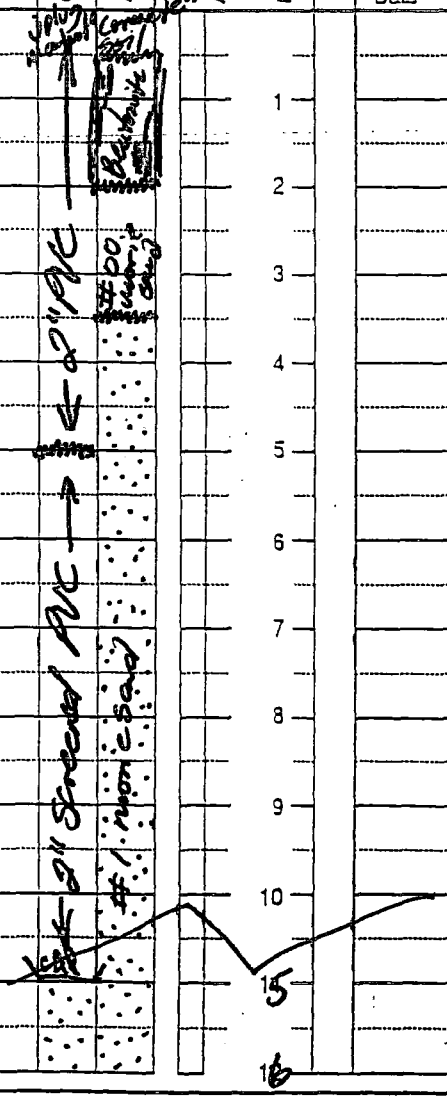
Completion Time: Date:

Backfill Time: Date:

Sketch Map of Site Area With Drilling Locations

	1st Water			
Boring Depth (ft.)				
Casing Depth (ft.)				
Water Depth (ft.)				
Time				
Date				

PID/OVA	Sampler Type & Depth	Blow Counts / 6 in.	Advance (in.)	Recovered (in.)		Casing Type & Size	Annulus Filler	Depth Sample Rec. Analyses	Depth Feet



N-2

Land, Air, Water Environmental Services, Inc.

DRILLER'S LOGS

WELL # P-1

DATE: March 19, 2010
SITE: 115-117 Wall St.
Valhalla, NY

CONSULTANT: APEX COMPANIES, LLC
Bohemia, NY

DEPTH DRILLED:	16	feet	DEPTH TO WATER:	1.96	feet
CASING INSTALLED:	5	feet	CASING DIAMETER:	2	inches
SCREEN INSTALLED:	10	feet	SLOT SIZE:	0.010	inches
DRILLING METHOD:	Hollow Stem Auger 4 1/4"		WELL/BORING GROUTED :	YES	
DEPTH TO BOTTOM TAPED:	14' 8"				

DRILLER: K. McGourty HELPER: A. Smith

DEPTH FROM		TO		RECOVERY	SAMPLE DESCRIPTION
0	ft	5	ft	Hand	Brown silty sand rock roots, fine, 20% gravel
5	ft	10	ft	Auger Cuttings	Dark brown silty sand silty clay, fine to very fine, trace of gravel
10	ft	15	ft	Auger Cuttings	Dark grey silty clay silty sand, fine to very fine, trace of gravel, wet, 2" x 15' Piezometer installed

Land, Air, Water Environmental Services, Inc.

DRILLER'S LOGS

WELL #: P-2

DATE: March 19, 2010
SITE: 115-117 Wall St.
Valhalla, NY

CONSULTANT: APEX COMPANIES, LLC
Bohemia, NY

DEPTH DRILLED:	16	feet	DEPTH TO WATER:	6.21	feet
CASING INSTALLED:	5	feet	CASING DIAMETER:	2	inches
SCREEN INSTALLED:	10	feet	SLOT SIZE:	0.010	inches
DRILLING METHOD:	Hollow Stem Auger 4 1/4"		WELL/BORING GROUTED :	YES	
DEPTH TO BOTTOM TAPED:	14' 8"				

DRILLER: K. McGourty HELPER: A. Smith

DEPTH FROM		TO		RECOVERY	SAMPLE DESCRIPTION
0	ft	5	ft	Hand	Brown silty sand rock, fine, 20% gravel
5	ft	10	ft	Auger Cuttings	Dark brown silty sand silty clay, fine to very fine, trace of gravel
10	ft	16	ft	Auger Cuttings	Dark grey silty clay, very fine, wet, 2" x 15' Piezometer installed

Appendix E

Well Purging Records

Apex Companies, LLC

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs)	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
MW-1S	3/16/2010	3/25/2010	prior to YSI 15gal	1130	6.80	N							
				1255	=	=	7.08	1.30	-5.0	7.71	12.79	0.9	-79
				1300	=	=	6.83	1.36	-5.0	6.61	12.46	0.8	-77
				1305	=	=	6.80	1.33	-5.0	5.00	12.68	0.9	-75
			15gal	1310	=	=	6.75	1.34	-5.0	4.95	12.97	0.8	-73
				1315	=	=	6.70	1.30	-5.0	4.97	12.94	0.9	-73
			30gal										

Notes:

DTB - 14.9'

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs)	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
MW-1I	3/16/2010	3/25/2010		1130	10.61	N							
				1210	~~7.0~~	—	7.01	0.691	572.0	3.18	14.45	0.44	22
				1215	"	—	6.97	0.691	542.0	1.71	14.47	0.43	24
				1220	"	—	6.86	0.683	492.0	1.51	14.50	0.45	28
				1225	"	—	6.79	0.686	480.0	1.54	14.51	0.45	32
				1230	"	—	6.73	0.701	473.0	1.50	14.55	0.45	35
							6.69	0.709	460.0	0.41	14.55	0.46	36
			N 75 gal										

Notes:

orange purge water cleared up as nearby complete.

DTB - 34.9'

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs) / below TOC	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
MW-1D	3/15/2010	3/25/2010	purged 10-15 gal ↓ 10-15 gal ↓ No Gallons Collected	1130	2.75	N							
				1140	[illegible]	=	8.67	0.292	408.0	4.71	14.14	0.01	-207
				1145	=	=	8.80	0.208	-5.0	2.97	14.19	0.01	-219
				1150	=	=	8.55	0.264	-5.0	7.54	14.53	0.01	-127
				1155	=	=	8.27	0.262	-5.0	7.40	14.66	0.01	-135
				1200	=	=	8.25	0.274	-5.0	7.40	14.68	0.01	-135
				1205	=	=	8.26	0.280	-5.0	7.43	14.69	0.01	-140

Notes: dark silty purge water
- only cleared up slightly towards end.

DTB- 52.5' bTOC

Replaced pump

TOC

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs)	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
MW-2S	3/17/2010	3/25/2010		0800	29	N	→	→	→	→	→	→	→
				0840	START	→	→	→	→	→	→	→	→
				~~0855~~									
				1100	—	—	7.13	8.15	-5.0	12.12	11.19	0.08	-113
			15 gallons	1105	—	—	7.04	0.074	-5.0	12.11	11.12	0.05	-111
				1110	—	—	6.96	0.054	-5.0	12.08	11.09	0.03	-108
				1116	—	—	6.92	0.039	-5.0	12.01	11.10	0.02	-104
				1120	—	—	6.88	0.033	-5.0	12.00	11.10	0.02	-101
				1135	—	—	6.84	0.031	-5.0	12.00	11.08	0.02	-97

Notes:

DTB = 15.4'

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs)	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
MW-2I	3/17/2010	3/25/2010		0800	34.37	N							
			clear	0940	=	=	10.38	0.401	-5.0	3.15	16.76	0.31	-247
			↓	0945	=	=	9.80	0.453	-5.0	3.15	17.03	0.32	-259
				0950	=	=	9.34	0.407	-5.0	2.49	16.58	0.01	-240
				0955	=	=	9.53	0.477	-5.0	4.25	16.50	0.34	-230
				1000	=	=	9.66	0.487	-5.0	4.46	16.21	0.33	-242
				1005	=	=	9.61	0.490	-5.0	3.95	16.13	0.31	-239
				1010	=	=	9.53	0.502	-5.0	1.70	16.16	0.32	-237
				1015	=	=	9.57	0.493	-5.0	1.53	16.31	0.30	-235
				1020	=	=	9.60	0.499	-5.0	1.69	16.50	0.32	-254
			20 gal. TOTAL	~~1020~~									

Notes:

DTB = 34.3'

water clear at start and periodically slightly cloudy thereafter.

J P

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs)	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (µS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)
MW-2D	3/17/2010	3/25/2010		0800	2.46	N							
			5 gal → low flow	0840	START	Pumping							
				0845	—	—	6.79	0.680	-5.0	8.00	15.16	0.44	-88
				0850	—	—	6.88	0.707	-5.0	8.00	14.96	0.45	-98
				0855	—	—	6.92	0.751	-5.0	0.00	14.63	0.43	-102
				0900	—	—	7.02	0.743	-5.0	0.00	15.54	0.46	-157
				0905	—	—	7.07	0.744	-5.0	0.00	14.51	0.40	-135
				0910	—	—	7.11	0.753	-5.0	0.00	14.77	0.43	-168
				0915	—	—	7.12	0.749	-5.0	0.00	14.80	0.46	-137
			15 gal.	0920	—	—	7.12	0.741	-5.0	0.00	14.81	0.48	-139
				beginning to become clear									→
				0925	—	—	7.29	0.018	-5.0	4.59	14.80	0.48	-140
				0930	—	—	7.24	0.746	-5.0	2.80	14.81	0.47	-111
				0935	—	—	7.20	0.758	-5.0	2.62	14.79	0.46	-114
				0940	—	—	7.19	0.736	-5.0	2.39	14.80	0.46	-115
			~30 gal TOTAL										
				~~WELL~~		III							

Notes:

DTB = 54.9'
dark brown @ first 30 mins of purging
water very murky and at first (840am) strong sulfur odor.

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs)	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
MW-3S	3/19/2010	3/25/2010	15gal prior to	1345	7.45	N							
				1400	—	—	6.49	8.36	800.0	5.92	11.61	5.3	-92
				1405	—	—	6.41	8.35	438.0	3.48	11.57	5.3	-92
				1410	—	—	6.36	8.33	374.0	3.28	11.43	5.2	-91
			15gal	1415	—	—	6.30	8.23	205.0	5.06	11.39	5.2	-90
				1420	—	—	6.27	8.31	202.0	3.02	11.34	5.2	-90
				1425	—	—	6.26	8.30	203.0	2.98	11.33	5.2	-90
			~~30gal~~										

Notes:

DTB – 14.85'

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs)	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
				~~1335~~	5.21	N							
			15gal p.w.										
				1430	–	–	6.97	3.46	-5.0	6.37	16.98	2.2	-92
				1435	–	–	~~6.74~~	3.46	-5.0	4.69	17.01	2.2	-90
			10	1440	–	–	~~6.61~~	3.45	-5.0	5.82	16.98	2.2	-88
				1445	–	–	6.66	3.46	-5.0	3.40	16.93	2.2	-88
				1450	–	–	6.65	3.46	-5.0	3.10	16.93	2.1	-88
				1455	–	–	6.67	3.44	-5.0	3.33	16.95	2.0	-90
			~~Tgal~~ 25gal										
MW-3I	3/18/2010	3/25/2010											

Notes:

DTB - 35.03'

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs) TOC	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
				1325	5.34	N							
			10 gal prior										
			dark brown	1330	—	—	7.61	0.368	-5.0	4.87	15.13	0.24	-109
				1335	—	—	7.53	0.367	-5.0	2.09	15.07	0.24	-108
			20 gal	1340	—	—	7.48	0.360	-5.0	1.91	15.04	0.23	-104
				1345	—	—	7.38	0.356	-5.0	4.82	15.04	0.23	-100
			clear	1350	—	—	7.38	0.363	-5.0	4.97	15.08	0.24	-98
				1355	—	—	7.33	0.362	-5.0	4.52	15.11	0.24	-98
			2 = 30 gal										
MW-3D	3/18/2010	3/25/2010											

Notes:

DTB - 49.45

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs) TOC	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
P-2	3/19/2010	3/25/2010		1505	6.21								
			10 gal prior										
				1510	6.21	—	6.89	2.00	-5.0	4.77	11.77	1.3	-127
				1515	—	—	6.79	1.96	-5.0	2.17	11.73	1.2	-127
				1520	—	—	6.75	1.93	-5.0	0.80	11.73	1.2	-128
			15 gal	1525	—	—	6.72	1.91	-5.0	0.00	11.72	1.2	-129
			cum.	1530	—	—	6.69	1.91	-5.0	0.00	11.72	1.2	-130
				1535	—	—	6.67	1.90	-5.0	0.00	11.72	1.2	-131
			25 gal										

Notes:

DTB - 14.63'
↳ bottom of casing

purge water started dk brown and ended light brn.

Well Development Data
One Commerce Park, Valhalla, NY

Location	Date of Install	Date of Development	Approximate Volume Purged (gal)	Time	DTW (bgs)	LNAPL Detected (Y/N)	pH (pH Units)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp (°C)	TDS (mg/L)	ORP (mV)
P-1	3/19/2010	3/25/2010		1545	1.96	N							
			15 gal										
				1550	—	—	7.01	0.513	-5.0	7.24	8.91	0.32	-86
				1555	—	—	6.95	0.495	-5.0	5.40	8.85	0.32	-73
				1600	—	—	6.90	0.481	-5.0	3.85	8.99	0.30	-60
			10 gal	1605	—	—	6.84	0.468	-5.0	3.52	9.27	0.31	-53
				1610	—	—	6.80	0.465	-5.0	3.51	8.98	0.31	-52
				1615	—	—	6.78	0.467	-5.0	3.45	9.68	0.30	-50
			25 gal										

Notes:

DTB — 13.6

Appendix F

Information on Chloromethane

PUBLIC HEALTH STATEMENT
CHLOROMETHANE
CAS#: 74-87-3

Division of Toxicology **December 1998**

This Public Health Statement is the summary chapter from the Toxicological Profile for Chloromethane. It is one in a series of Public Health Statements about hazardous substances and their health effects. A shorter version, the ToxFAQs™ is also available. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present. For more information, call the ATSDR Information Center at 1-888-422-8737.

This public health statement tells you about chloromethane and the effects of exposure.

The Environmental Protection Agency (EPA) identifies the most serious hazardous waste sites in the nation. These sites make up the National Priorities List (NPL) and are the sites targeted for long-term federal cleanup. Chloromethane has been found in at least 172 of the 1,467 current or former NPL sites. However, it's unknown how many NPL sites have been evaluated for this substance. As more sites are evaluated, the sites with chloromethane may increase. This is important because exposure to this substance may harm you and because these sites may be sources of exposure.

When a substance is released from a large area, such as an industrial plant, or from a container, such as a drum or bottle, it enters the environment. This release does not always lead to exposure. You are exposed to a substance only when you come in contact with it. You may be exposed by breathing, eating, or drinking the substance or by skin contact.

If you are exposed to chloromethane, many factors determine whether you'll be harmed. These factors include the dose (how much), the duration (how long), and how you come in contact with it. You must also consider the other chemicals you're exposed to and your age, sex, diet, family traits, lifestyle, and state of health.

1.1 WHAT IS CHLOROMETHANE?

Chloromethane (also known as methyl chloride) is a clear, colorless gas. It has a faint, sweet odor that is noticeable only at levels which may be toxic. It is heavier than air and is extremely flammable.

Chloromethane is produced in industry, but the it also occurs naturally, and most of the chloromethane that is released to the environment (estimated at up to 99%) comes from natural sources. Chloromethane is always present in the air at very low levels. Most of the naturally occurring chloromethane comes from chemical reactions that occur in the oceans or from chemical reactions that occur when materials like grass, wood, charcoal, and coal are burned. It is also released to the air as a product of some plants or from rotting wood.

In the past, chloromethane was widely used as a refrigerant, but refrigerators no longer use chloromethane because of its toxic effects. It was also used as a foam-blowing agent and as a pesticide or fumigant. A working refrigerator that is more than 30 years old may still contain chloromethane, and may be a source of high-level exposure. Today, nearly all commercially produced chloromethane is used to make other substances, mainly silicones (72% of the total chloromethane used). Other products that are made from reactions involving chloromethane include agricultural

chemicals (8%), methyl cellulose (6%), quaternary amines (5%), and butyl rubber (3%). Chloromethane is completely used up so that by the end of the process there is no or little chloromethane left to be released, disposed of, or reused. It is, however, found as a pollutant in municipal waste streams from treatment plants and industrial waste streams as a result of formation or incomplete removal. There are also some manufacturing processes for vinyl chloride that result in chloromethane as an impurity in the vinyl chloride end product.

1.2 WHAT HAPPENS TO CHLOROMETHANE WHEN IT ENTERS THE ENVIRONMENT?

Chloromethane has been identified in air, surface water, groundwater, soil, and sediment. Most releases of chloromethane will be to the air. Chloromethane rapidly moves through the air and is present at very low concentrations throughout the atmosphere. Naturally occurring chloromethane is continuously released into the atmosphere from oceans, rotting wood, forest fires, and volcanoes. When grass, coal, or wood are burned, chloromethane is released to the air. The burning of grasslands and forests accounts for about 20% (ranging from 10 to 40%) of the total chloromethane in the air. Releases from the oceans account for another 80 to 90%. Chemical companies release some chloromethane gas to the air during the production of chloromethane or when it is used to make other substances, but the amount is relatively very small (0.2 to 0.6%) compared to natural sources of the total chloromethane in the atmosphere.

Chloromethane breaks down very slowly (months to years) in the air. Chloromethane can dissolve in water, and small amounts of chloromethane in air may go into surface waters or groundwater when it rains. Chloromethane can also enter water from industrial or municipal waste streams or from water that comes in contact with municipal or hazardous waste sites. Chemical companies generally treat waste water to remove chloromethane.

Chloromethane is a gas at room temperature, and when present in water, most will evaporate rapidly to the air. Small amounts of dissolved chloromethane may move below the surface of the water or be carried to the groundwater. It breaks down very slowly (months to years) in plain water, but certain kinds of small organisms in water may break it down more quickly (days). When chloromethane comes in contact with soil it does not stick to the soil. Most of the chloromethane in soil will move to the air. Some may dissolve in water and move down through the soil layers to the groundwater or into well water. Chloromethane does not concentrate in sediments, or in animals and fish in the food chain.

1.3 HOW MIGHT I BE EXPOSED TO CHLOROMETHANE?

Most (99%) of the chloromethane in the environment comes from natural sources. Because chloromethane is made in the oceans by natural processes, it is present in air all over the world. In most areas, the outside air contains less than 1 part of chloromethane in a billion parts of air (ppb). In cities, human activities, mostly combustion and manufacturing, add to the chloromethane in the air, resulting in somewhat higher levels, up to 1 ppb. Chloromethane exposures in the less than 5 ppb

range are much lower (1,000 to 10,000 times lower) than the exposure levels that have been shown to have toxic effects. Chloromethane is also present in some lakes and streams and has been found in drinking water (including well water) at very low levels in the parts per billion to part per trillion (ppt) range. Chloromethane may be formed to a small extent in tap water that has been chlorinated. You could be exposed to levels in air higher than the background levels if you live near a hazardous waste site or an industry that uses chloromethane. If chloromethane is present at waste sites, it can move through the soil into underground water. We have very little information on the levels of chloromethane in groundwater. Chloromethane is not generally found in food.

The people most likely to be exposed to increased levels of chloromethane in the air are those who work in chemical plants where it is made or used. Chloromethane is also an impurity in vinyl chloride when the vinyl chloride is produced by heating another chemical, 1,2-dichloroethane. Exposure to chloromethane can occur from this kind of vinyl chloride or the disposal of vinyl chloride waste from this process. The proper enforcement of workplace regulations and the recycling of chloromethane during the manufacturing process help prevent worker exposures to levels that would be considered harmful. In the past (more than 30 years ago), chloromethane was also widely used as the refrigerant in refrigerators. Some of these old refrigerators may still be in use or may be located in storage areas. Chloromethane may be released from leaks in these refrigerators, leading to potentially very high exposures, especially in areas with poor ventilation. Liquid contact could also occur following a leak in an older refrigerator containing chloromethane. Other general population sources of chloromethane exposure include cigarette smoke; polystyrene insulation; aerosol propellants; home burning of wood, grass, coal, or certain plastics; and chlorinated swimming pools. The chloromethane in the outdoor environment, however, is almost totally from natural sources.

1.4 HOW CAN CHLOROMETHANE ENTER AND LEAVE MY BODY?

Chloromethane can enter your body through your lungs, if you breathe it in, or through your digestive tract if you drink water containing it. The chloromethane that you breathe in or drink rapidly enters the bloodstream from the lungs or the digestive tract and moves throughout the body to organs such as the liver, kidneys, and brain. Very little of the chloromethane that enters the body remains unchanged. The portion of the chloromethane that does not get changed in your body leaves in the air you breathe out. The rest is changed in your body to other breakdown products that mostly leave in the urine. The breakdown process takes anywhere from a few hours to a couple of days.

Breathing air that contains chloromethane vapor is the most likely way you would be exposed if you live near a hazardous waste site. Contact with liquid chloromethane is rare, but could occur in an industrial accident from a broken metal container. Prolonged skin contact with liquid chloromethane is unlikely, because it turns into a gas very quickly at room temperature. It is not known how much chloromethane liquid or gas will enter the body through contact with the skin, but the amount is probably very low.

PUBLIC HEALTH STATEMENT
CHLOROMETHANE
CAS#: 74-87-3

1.5 HOW CAN CHLOROMETHANE AFFECT MY HEALTH?

If the levels are high enough (over a million times the natural levels in outside air), even brief exposures to chloromethane can have serious effects on your nervous system, including convulsions, coma, and death. Some people have died from breathing chloromethane that leaked from refrigerators in rooms that had little or no ventilation. Most of these cases occurred more than 30 years ago, but this kind of exposure could still happen if you have an old refrigerator that contains chloromethane as the refrigerant. Some people who were exposed to high levels of chloromethane while they were repairing refrigerators did not die, but they did have toxic effects like staggering, blurred or double vision, dizziness, fatigue, personality changes, confusion, tremors, uncoordinated movements, nausea, or vomiting. These symptoms can last for several months or years. Complete recovery has occurred in some cases, but not in others. Exposure to chloromethane can also harm your liver and kidney, or have an effect on your heart rate and blood pressure. If you work in an industry that uses chloromethane to make other products, you might be exposed to levels that could cause symptoms resembling drunkenness and impaired ability to perform simple tasks.

To protect the public from the harmful effects of toxic chemicals and to find ways to treat people who have been harmed, scientists use many tests.

One way to see if a chemical will hurt people is to learn how the chemical is absorbed, used, and released by the body; for some chemicals, animal testing may be necessary. Animal testing may also be used to identify health effects such as cancer or birth defects. Without laboratory animals, scientists would lose a basic method to get information needed to make wise decisions to protect public health. Scientists have the responsibility to treat research animals with care and compassion. Laws today protect the welfare of research animals, and scientists must comply with strict animal care guidelines.

Harmful liver, kidney, and nervous system effects have developed after animals breathed air containing high levels of chloromethane (one million times higher than natural levels). Some of these animals died from exposure to high levels of chloromethane. Similar effects were seen in animals that breathed low levels continuously and animals that breathed high levels for shorter periods with some breaks from exposure.

Animals that breathed relatively low test levels of chloromethane (but still one hundred thousand to one million times higher than background levels people are exposed to) over a long period (weeks to months) had slower growth and developed brain damage. Some male animals were less fertile or even sterile or produced sperm that were damaged. Females that became pregnant by the exposed males lost their developing young.

Male mice that breathed air containing chloromethane (one million ppb) for 2 years developed tumors in their kidneys, but female mice and male and female rats did not develop tumors. It is not known whether chloromethane can cause sterility, miscarriages, birth defects, or cancer in humans. The Department of Health and Human Services (DHHS) has not classified chloromethane for carcinogenic effects. The International Agency for Research on Cancer (IARC) calls chloromethane

a Group 3 compound, which means it cannot be determined whether or not it is a carcinogen because there is not enough human or animal data. The Environmental Protection Agency (EPA) considers chloromethane possibly carcinogenic to humans (i.e., Group C) based on limited evidence of carcinogenicity in animals.

1.6 HOW CAN CHLOROMETHANE AFFECT CHILDREN?

This section discusses potential health effects from exposures during the period from conception to maturity at 18 years of age in humans.

Children may be exposed to chloromethane from the same sources as adults. These sources include outside air, indoor air, and drinking water. Exposures are generally well below safe levels. The people most heavily exposed to chloromethane are workers in chemical plants where it is made or used. With proper safeguards to prevent children from entering these work areas, children would not be expected to have high exposures. Old refrigerators that used chloromethane as a refrigerant and that are leaking chloromethane, however, are a potential source that could result in high exposures to children.

There have been no studies on whether children are more or less susceptible than adults to harmful health effects from a given amount or chloromethane. We do not know if chloromethane affects the developing fetus or the development of young children. There is no information on exposure to high levels of chloromethane in children (for example, accidental poisoning), but we expect similar effects to those seen in adults (including harmful effects on the nervous system and kidneys). We do not know if the effects for children would be similar to those in adults for lower levels or for longer exposures. There have been no studies where young animals were exposed to chloromethane. Animal studies have shown that female adult rats that were exposed to chloromethane during pregnancy had young that were smaller than normal, with underdeveloped bones, and possibly abnormal hearts (although this effect remains uncertain).

We do not know if chloromethane or its breakdown products in the body can cross the placenta and enter into the developing young. We also do not know if chloromethane or its breakdown products can enter into a nursing woman's milk. We do know that chloromethane is broken down and eliminated from the body very quickly in adults. Although we expect the breakdown and elimination of chloromethane to be the same in children as in adults, more studies are needed to answer this question and the other questions concerning the movement of chloromethane into the fetus or into nursing young through breast milk, and what amounts might result in harmful effects.

1.7 HOW CAN FAMILIES REDUCE THE RISK OF EXPOSURE TO CHLOROMETHANE?

If your doctor finds that you have been exposed to significant amounts of chloromethane, ask your doctor if children may also be exposed. When necessary your doctor may need to ask your state Department of Public Health to investigate.

Families can reduce the risk of exposure to chloromethane by properly disposing of the older types of refrigerators that used chloromethane as a

refrigerant. If you live near a chemical plant that makes or uses chloromethane, or near a hazardous waste site that stores it, you should teach your children not to play in or around these sites. If family members work in a chemical facility that manufactures or uses chloromethane, they should become familiar with the safety practices that are used to prevent exposure to harmful levels. They should also become familiar with their rights to obtain information from their employer concerning the use of chloromethane and any potential exposure they might be subject to at work.

You should teach your children about the dangers of breathing smoke from burning vinyl plastic or silicone rubber products, and should properly dispose of all such products. Chloromethane (as well as other toxic compounds) is released from burning polyvinyl chloride. If you are concerned that chloromethane may be in your drinking water, you can have your water tested and learn about the proper water filter to use to remove chloromethane (as well as other possible contaminants) from your drinking water. If you are concerned that products you are using might contain chloromethane, you can check the labels for ingredients or contact the manufacturer for additional information.

1.8 IS THERE A MEDICAL TEST TO DETERMINE WHETHER I HAVE BEEN EXPOSED TO CHLOROMETHANE?

There are no known reliable medical tests to determine whether you have been exposed to chloromethane. Symptoms resembling drunkenness and food poisoning, along with a sweet odor of the breath, may alert doctors that a person has been exposed to chloromethane.

1.9 WHAT RECOMMENDATIONS HAS THE FEDERAL GOVERNMENT MADE TO PROTECT HUMAN HEALTH?

The federal government develops regulations and recommendations (sometimes called advisories or guidelines) to protect public health. Regulations can be enforced by law. Federal agencies that develop regulations for toxic substances include the Environmental Protection Agency (EPA), the Occupational Safety and Health Administration (OSHA), and the Food and Drug Administration (FDA). Recommendations provide valuable guidelines to protect public health but cannot be enforced by law. Federal organizations that develop recommendations for toxic substances include the Agency for Toxic Substances and Disease Registry (ATSDR) and the National Institute for Occupational Safety and Health (NIOSH).

Regulations and recommendations can be expressed in not-to-exceed levels in air, water, soil, or food that are usually based on levels that affect animals; then they are adjusted to help protect people. Sometimes these not-to-exceed levels differ among federal organizations because of different exposure times (an 8-hour workday or a 24-hour day), the use of different animal studies, or other factors.

Recommendations and regulations are also periodically updated as more information becomes available. For the most current information, check with the federal agency or organization that provides it. Some regulations and recommendations for chloromethane include the following:

To protect workers, OSHA has set a regulation of an average permissible exposure limit of 50 parts of

a Group 3 compound, which means it cannot be determined whether or not it is a carcinogen because there is not enough human or animal data. The Environmental Protection Agency (EPA) considers chloromethane possibly carcinogenic to humans (i.e., Group C) based on limited evidence of carcinogenicity in animals.

1.6 HOW CAN CHLOROMETHANE AFFECT CHILDREN?

This section discusses potential health effects from exposures during the period from conception to maturity at 18 years of age in humans.

Children may be exposed to chloromethane from the same sources as adults. These sources include outside air, indoor air, and drinking water. Exposures are generally well below safe levels. The people most heavily exposed to chloromethane are workers in chemical plants where it is made or used. With proper safeguards to prevent children from entering these work areas, children would not be expected to have high exposures. Old refrigerators that used chloromethane as a refrigerant and that are leaking chloromethane, however, are a potential source that could result in high exposures to children.

There have been no studies on whether children are more or less susceptible than adults to harmful health effects from a given amount or chloromethane. We do not know if chloromethane affects the developing fetus or the development of young children. There is no information on exposure to high levels of chloromethane in children (for example, accidental poisoning), but we expect similar effects to those seen in adults (including harmful effects on the nervous system and kidneys). We do not know if the effects for children would be similar to those in adults for lower levels or for longer exposures. There have been no studies where young animals were exposed to chloromethane. Animal studies have shown that female adult rats that were exposed to chloromethane during pregnancy had young that were smaller than normal, with underdeveloped bones, and possibly abnormal hearts (although this effect remains uncertain).

We do not know if chloromethane or its breakdown products in the body can cross the placenta and enter into the developing young. We also do not know if chloromethane or its breakdown products can enter into a nursing woman's milk. We do know that chloromethane is broken down and eliminated from the body very quickly in adults. Although we expect the breakdown and elimination of chloromethane to be the same in children as in adults, more studies are needed to answer this question and the other questions concerning the movement of chloromethane into the fetus or into nursing young through breast milk, and what amounts might result in harmful effects.

1.7 HOW CAN FAMILIES REDUCE THE RISK OF EXPOSURE TO CHLOROMETHANE?

If your doctor finds that you have been exposed to significant amounts of chloromethane, ask your doctor if children may also be exposed. When necessary your doctor may need to ask your state Department of Public Health to investigate.

Families can reduce the risk of exposure to chloromethane by properly disposing of the older types of refrigerators that used chloromethane as a

refrigerant. If you live near a chemical plant that makes or uses chloromethane, or near a hazardous waste site that stores it, you should teach your children not to play in or around these sites. If family members work in a chemical facility that manufactures or uses chloromethane, they should become familiar with the safety practices that are used to prevent exposure to harmful levels. They should also become familiar with their rights to obtain information from their employer concerning the use of chloromethane and any potential exposure they might be subject to at work.

You should teach your children about the dangers of breathing smoke from burning vinyl plastic or silicone rubber products, and should properly dispose of all such products. Chloromethane (as well as other toxic compounds) is released from burning polyvinyl chloride. If you are concerned that chloromethane may be in your drinking water, you can have your water tested and learn about the proper water filter to use to remove chloromethane (as well as other possible contaminants) from your drinking water. If you are concerned that products you are using might contain chloromethane, you can check the labels for ingredients or contact the manufacturer for additional information.

1.8 IS THERE A MEDICAL TEST TO DETERMINE WHETHER I HAVE BEEN EXPOSED TO CHLOROMETHANE?

There are no known reliable medical tests to determine whether you have been exposed to chloromethane. Symptoms resembling drunkenness and food poisoning, along with a sweet odor of the breath, may alert doctors that a person has been exposed to chloromethane.

1.9 WHAT RECOMMENDATIONS HAS THE FEDERAL GOVERNMENT MADE TO PROTECT HUMAN HEALTH?

The federal government develops regulations and recommendations (sometimes called advisories or guidelines) to protect public health. Regulations can be enforced by law. Federal agencies that develop regulations for toxic substances include the Environmental Protection Agency (EPA), the Occupational Safety and Health Administration (OSHA), and the Food and Drug Administration (FDA). Recommendations provide valuable guidelines to protect public health but cannot be enforced by law. Federal organizations that develop recommendations for toxic substances include the Agency for Toxic Substances and Disease Registry (ATSDR) and the National Institute for Occupational Safety and Health (NIOSH).

Regulations and recommendations can be expressed in not-to-exceed levels in air, water, soil, or food that are usually based on levels that affect animals; then they are adjusted to help protect people. Sometimes these not-to-exceed levels differ among federal organizations because of different exposure times (an 8-hour workday or a 24-hour day), the use of different animal studies, or other factors.

Recommendations and regulations are also periodically updated as more information becomes available. For the most current information, check with the federal agency or organization that provides it. Some regulations and recommendations for chloromethane include the following:

To protect workers, OSHA has set a regulation of an average permissible exposure limit of 50 parts of

chloromethane per million parts of workroom air (50 ppm) during each 8-hour work shift in a 40-hour workweek.

1.10 WHERE CAN I GET MORE INFORMATION?

If you have any more questions or concerns, please contact your community or state health or environmental quality department or:

Agency for Toxic Substances and Disease Registry
Division of Toxicology
1600 Clifton Road NE, Mailstop F-32
Atlanta, GA 30333

Information line and technical assistance:

Phone: 888-422-8737
FAX: (770)-488-4178

ATSDR can also tell you the location of occupational and environmental health clinics. These clinics specialize in recognizing, evaluating, and treating illnesses resulting from exposure to hazardous substances.

To order toxicological profiles, contact:

National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161
Phone: 800-553-6847 or 703-605-6000

Reference

Agency for Toxic Substances and Disease Registry (ATSDR). 1998. Toxicological profile for chloromethane. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

CHLOROMETHANE
CAS # 74-87-3

This fact sheet answers the most frequently asked health questions (FAQs) about chloromethane. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to high levels of chloromethane can cause serious problems to your nervous system, including convulsions and coma. It can also affect your liver, kidneys, and heart. This substance has been found in at least 172 of the 1,467 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is chloromethane?

(Pronounced klôr′ ō měth′ ān)

Chloromethane is also known as methyl chloride. It is a clear, colorless gas. It has a faint, sweet odor that is noticeable only at levels that may be toxic. It is heavier than air, and it is extremely flammable.

What happens to chloromethane when it enters the environment?

- ❑ Chloromethane is found in air, surface water, groundwater, soil, and sediment.
- ❑ It is present at very low concentrations throughout the atmosphere.
- ❑ Chloromethane breaks down very slowly in air.
- ❑ It breaks down slowly in water, but certain microorganisms can break it down more quickly.
- ❑ Most of the chloromethane in soil will move to air.
- ❑ It does not concentrate in plants, animals, or fish.

How might I he exposed to chloromethane?

- ❑ Some chloromethane is produced by industry.
- ❑ Most of the chloromethane that is released into the environment is from natural sources, such as chemical reactions that occur in the oceans.
- ❑ It is also given off when materials like grass, wood, charcoal, and plastics are burned.
- ❑ It is present in lakes and streams and has been found in drinking water.
- ❑ Chloromethane is an impurity in vinyl chloride; exposure could occur from disposal of vinyl chloride waste.
- ❑ Other sources of exposure are cigarette smoke, polystyrene insulation, aerosol propellants, and chlorinated swimming pools.

How can chloromethane affect my health?

Breathing very high levels, even for a short time, can have serious effects on your nervous system, including convulsions and coma.

Lower exposures can also cause staggering, blurred or double vision, dizziness, fatigue, personality changes, confusion, tremors, nausea, or vomiting. These symptoms can last for several months or years.

Exposure to chloromethane can harm your liver and kidneys. It could also affect your heart rate and blood pressure.

Some animal studies showed that animals that breathed low levels of chloromethane experienced slower growth and had brain damage. In other animal studies, males that were exposed to chloromethane were less fertile, or even sterile, or produced damaged sperm. Females that became pregnant by these males lost their developing young.

How likely is chloromethane to cause cancer?

There is no evidence that chloromethane causes cancer in people. In animal studies, male mice that breathed contaminated air for 2 years developed tumors in their kidneys, but female mice, and male and female rats did not.

The EPA has determined that chloromethane is a possible human carcinogen.

How can chloromethane affect children?

There are no studies on the health effects on children from exposure to chloromethane. We do not know if chloromethane exposure will harm developing fetuses or young children.

Animal studies show that female rats exposed to chloromethane during pregnancy had young that were smaller than normal, with underdeveloped bones, and possibly abnormal hearts (this effect remains uncertain).

How can families reduce the risk of exposure to chloromethane?

- ❑ Keep children away from contaminated areas, such as workplaces that use chloromethane.
- ❑ Properly dispose of the older types of refrigerators that used chlormethane as a refrigerant.
- ❑ Become familiar with safety practices if you work with or near chloromethane.
- ❑ Teach children the dangers of breathing smoke from burning vinyl plastic or silicone rubber products (chloromethane is released).
- ❑ Have your drinking water tested if you are concerned about it.
- ❑ Check product labels for ingredients; contact manufacturers for additional information if you need it.

Is there a medical test to show whether I've been exposed to chloromethane?

There are no known reliable medical tests to determine whether you have been exposed to chloromethane. Symptoms resembling drunkenness and food poisoning, along with a sweet odor of the breath, may suggest to a doctor that a person has been exposed to chloromethane.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) has set a permissible exposure limit for chloromethane of 100 parts per million (100 ppm) for an 8-hour workday in a 40-hour workweek.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1998. Toxicological profile for chloromethane. Atlanta: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

Chloromethane

From Wikipedia, the free encyclopedia

Chloromethane, also called **Methyl chloride**, **R-40** or **HCC 40**, is a chemical compound of the group of organic compounds called haloalkanes. It was once widely used as a refrigerant. It is a colorless extremely flammable gas with a minorly sweet odor, which is, however, detected at possibly toxic levels. Due to concerns about its toxicity, it is no longer present in consumer products. Chloromethane was first synthesized by the French chemists Jean-Baptiste Dumas and Eugene Peligot in 1835 by boiling a mixture of methanol, sulfuric acid, and sodium chloride. This method is similar to that used today.

Contents

Production

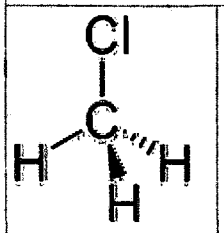
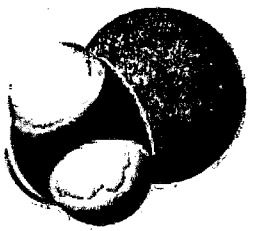
Large amounts of chloromethane are produced naturally in the oceans by the action of sunlight on biomass and chlorine in sea foam. However, all chloromethane that is used in industry is produced synthetically.

Most chloromethane is prepared by reacting methanol with hydrogen chloride, according to the chemical equation

$$CH_3OH + HCl \rightarrow CH_3Cl + H_2O$$

This can be carried out either by bubbling hydrogen chloride gas through boiling methanol with or without a zinc chloride catalyst, or by passing combined methanol and hydrogen chloride vapors over an alumina catalyst at 350 °C.

A smaller amount of chloromethane is produced by heating a mixture of methane and chlorine to over 400 °C. However, this method also results in more highly chlorinated compounds such as methylene

Chloromethane	
	
IUPAC name	
Chloromethane	
other names	
Monochloromethane, Methyl chloride, Artic, Freon 40, R 40, UN 1063	
Identifiers	
CAS number	74-87-3
PubChem	6327
ChemSpider	6087
EC number	200-817-4
ChEBI	36014
RTECS number	PA6300000
SMILES	ClC
InChI	1/CH3Cl/c1-2/h1H3
InChI key	NEHMKBQYUWJMIP-UHFFFAOYAW
Properties	
Molecular formula	CH_3Cl
Molar mass	50.49 g/mol
Appearance	Colorless gas with a faint sweet odor
Density	2.22 kg/m^3 (0 °C)
Melting point	−97.7 °C (176 K) (-143.9 °F)
Boiling point	-24.2 °C (249 K) (-11.6 °F)
Solubility in water	5.325 g/l
log P	0.91
Vapor pressure	490 kPa (20 °C) ; 71 PSI (68°F)
Structure	
Molecular shape	Tetrahedral
Hazards	
MSDS	External MSDS
EU classification	Extremely flammable (**F+**), Harmful (**Xn**), Carc. Cat. 3

chloride and chloroform and is usually only used when these other products are also desired.

Further reaction of chloromethane with hydrochloric acid can produce dichloromethane, trichloromethane (known as chloroform) and tetrachloromethane (also known as carbon tetrachloride).

Uses

Chloromethane was a widely-used refrigerant, but its use has been discontinued due to its toxicity and flammability. Chloromethane was also once used for producing lead-based gasoline additives (tetramethyllead).

The most important use of chloromethane today is as a chemical intermediate in the production of silicone polymers. Smaller quantities are used as a solvent in the manufacture of butyl rubber and in petroleum refining.

R-phrases	R10, R40, R48/20
S-phrases	S9, S16, S33
NFPA 704	
Flash point	-46 °C
Autoignition temperature	625 °C
Supplementary data page	
Structure and properties	n, ε_r, etc.
Thermodynamic data	Phase behaviour Solid, liquid, gas
Spectral data	UV, IR, NMR, MS
✓ (what is this?) (verify) Except where noted otherwise, data are given for materials in their standard state (at 25 °C, 100 kPa)	
Infobox references	

Chloromethane is employed as a methylating and chlorinating agent in organic chemistry. It is also used in a variety of other fields: as an extractant for greases, oils and resins, as a propellant and blowing agent in polystyrene foam production, as a local anesthetic, as an intermediate in drug manufacturing, as a catalyst carrier in low-temperature polymerization, as a fluid for thermometric and thermostatic equipment, and as a herbicide.

Safety

Inhalation of chloromethane gas produces central nervous system effects similar to intoxication. Victims may feel drowsy, dizzy, or confused and have difficulty breathing, with gasping and choking, walking or speaking. At higher concentrations, paralysis, seizures, and coma may result.

In case of ingestion nausea and vomiting may result. Skin contact when in the form of a refrigerated liquid may result in frostbite. Contact with eyes may result in dim vision, widely dilated pupils that react slowly to changes in light.

Chronic exposure to chloromethane has been linked to birth defects in mice. In humans, exposure to chloromethane during pregnancy may cause the fetus' lower spinal column, pelvis, and legs to form incorrectly, but this has not been conclusively demonstrated.

In 1997, a re-investigation of Boston's Cocoanut Grove nightclub fire cited a chloromethane leak from a refrigerator as a major cause of that disaster.

On January 22, 2010 DuPont reported a methyl chloride leak to Kanawha County emergency officials. DuPont officials put the sprawling Belle plant in West Virginia on safety shutdown over the weekend after three separate leaks were reported. One leak, which released about 1,900 pounds of hazardous methyl chloride, went unnoticed for 5 days. Leni Fortson with the federal Occupational Safety and Health Administration said agency investigators were at the sprawling eastern Kanawha County plant on

January 25, 2010. The agency has six months to complete its investigation and release its findings, she said.

- [1]

External links

- International Chemical Safety Card 0419
- NIOSH Pocket Guide to Chemical Hazards 0403
- MSDS at Oxford University
- Data sheet at inchem.org
- Toxicological information
- Information about chloromethane
- Concise International Chemical Assessment Document 28 on chloromethane
- IARC Summaries & Evaluations Vol. 71 (1999)

Retrieved from "http://en.wikipedia.org/wiki/Chloromethane"
Categories: Organochlorides | Halomethanes | Refrigerants | Halogenated solvents | Hazardous air pollutants | IARC Group 3 carcinogens