MH

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090

January 26, 2009

REPLY TO
ATTENTION OF
Programs and Project Management Division

JAN 30 2009

Matthew S. Hubicki
New York State Department of Environmental Conservation
Remedial Bureau C
Division of Environmental Remediation
625 Broadway
Albany, New York 12233

Mr. Marc Grazioli
Westchester County Department of Health
145 Huguenot Street
New Rochelle, New York 10801

RE: UNDERGROUND STORAGE TANK CLOSURE REPORT- DAVIDS ISLAND/FORT SLOCUM, NEW ROCHELLE, NEW YORK

Dear Mr. Hubicki and Mr. Grazioli:

Enclosed is the final *Underground Storage Tank Closure Report for Davids Island/Fort Slocum*. On October 9, 2008, our contractor, Tetra Tech EC, Inc., removed and disposed of two underground storage tanks (USTs; one- 10,000 gallon and one- 550 gallon) associated with the former use of Davids Island as Fort Slocum.

Based upon the post-excavation results, and the proper removal of the USTs and disposal of their contents, it is requested that a "no further action" designation be provided by your Departments, with respect to the proper closure of the USTs.

Please contact me at (917)790-8235, if you have any further questions regarding this matter.

Sincerely,

Gregory J. Goepfert

Gregory J. Goepfert
Project Manager

Encl.

cc: all w/ encl.:
City of New Rochelle / Mr. J. Coleman / Mr. K. Orszulik
Westchester County, Dept. of Planning / Ms. G. D'Agrosa
New York State Dept. of Health / Ms. K. Kulow
U. S. Army Corps of Engineers, New England District / Mr. J. Kelly

US Army Corps
of Engineers®

Prepared for:
Department of the Army
New England District, Corps of Engineers
696 Virginia Road
Concord, Massachusetts 01742-2751

Total Environmental Restoration Contract (TERC)

Final
UNDERGROUND STORAGE TANK CLOSURE REPORT

Davids Island/Fort Slocum
New Rochelle, NY

January 2009

Contract Number:
DACW33-03-D-0006
TASK ORDER 2

- ***Prepared by:***
- **Tetra Tech EC, Inc.**
- 133 Federal Street
- Boston, MA 02110

- ***Submitted by Tetra Tech, EC, Inc., on behalf of:***
- **Jacobs – Tetra Tech EC Joint Venture**
- 55 Old Bedford Road
- Lincoln, MA 01773

2009-O-JV02-0001

TETRA TECH EC, INC.

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1.0 INTRODUCTION

This Underground Storage Tank (UST) Closure Report presents the results of the UST removal activities performed by Tetra Tech EC, Inc. (TtEC) at Davids Island (the Island) for the United States Army Corps of Engineers (USACE) and City of New Rochelle, New York (the City). TtEC is under contract to the USACE, New York District to perform demolition and removal of Island buildings, and this work is currently on-going. The City of New Rochelle, New York (the City) is in the process of performing the Davids Island Environmental Restoration Project (the Project), which includes a systematic, detailed investigation of the City of New Rochelle-owned portion of Davids Island. TtEC is also the contractor for the City's work. These UST closure activities were conducted by TtEC jointly for the USACE and the City of New Rochelle.

This report describes the activities performed during UST removal and summarizes the results of these activities.

1.1 Site Background

1.1.1 Site Location

Davids Island is an approximately 80-acre island located in Long Island Sound, less than a mile east of the mainland at New Rochelle, New York. The site is the former location of a military base named Fort Slocum. The legal definition of the property is Block 780, Lot 1 in the City of New Rochelle, Westchester County, New York. A Project location map is provided as Figure 1.

1.1.2 Site Description/Layout

The Island has remained vacant since the United States military left the Island in the 1960s. Abandoned buildings and related infrastructure existed at the Island, but were severely deteriorated due to vandalism, neglect, and arson. In addition, dense vegetation covers much of the Island. Demolition and removal of the Island buildings has been undertaken by the USACE.

Two USTs were identified during the USACE demolition activities and were investigated in July 2007 during the Site Investigation (SI) portion of the Project for the City. The locations of both USTs are shown on Figure 2. The first UST (UST A) is an approximately 10,000-gallon single walled steel tank that was located underneath the pump island east of former Building 40 (historically used as a wagon shed/garage), with remote fill piping running from the northwest corner of the UST to the former dock area, as shown on Figure 3. The second UST (UST B) was identified on the east side of

Building 61 (historically an enlisted men's barracks) during demolition and consisted of a 550-gallon single walled steel tank inside a concrete vault, as shown on Figure 4.

1.1.3 Site History

The federal government leased the use of the Island beginning in 1861 or 1862. Prior to development, the Island served as pasture land and farmland, and was partially used for recreation with a dance pavilion and picnic grounds. During the Civil War, the Island contained a hospital (DeCamp General Hospital) that treated over 5,000 soldiers and held more than 2,500 Confederate prisoners of war.

Davids Island was officially bought by the Government in 1867, and the Island became a major recruiting base by 1878. A cemetery was established on the Island in 1878, but was subsequently removed in 1887 to make way for construction of barracks (USACE, 2005). In 1890, Davids Island became part of the New York Harbor Defense System, with pits and tunnels dug into the ledge rock to house a series of cannons. The Island was officially named Fort Slocum in 1896 in honor of Major General Henry Warner Slocum, a Civil War hero.

During World War I, Fort Slocum was the recruit examination station for the northeastern United States. Between 1917 and 1919, over 140,000 recruits passed through the Island. Fort Slocum was also used during World War II as a port of embarkation and an overseas staging area. Between the years of 1945 and 1967, Fort Slocum served a variety of functions. These functions included an U.S. Air Force Base, a rehabilitation center, a Chaplain's School, and an Information School (among other uses). Between 1955 and 1961, the Island contained the Fort Slocum Nike Battery (NY-15), which consisted of a fire control facility for the missiles installed at nearby Hart Island (USACE, 2005).

In 1967, the Island was purchased by the City of New Rochelle and was immediately considered for redevelopment. The following year the Island was sold to Consolidated Edison Company (Con Ed) for the construction of a nuclear generating facility. The plans for a nuclear facility were abandoned in 1973, and the Island was resold back to the City of New Rochelle. In 1977, the Island was designated as an Urban Renewal Area. Various proposals for redevelopment of Davids Island occurred from 1981 through 1994; however, no plans were implemented.

1.1.4 UST investigation Activities

A preliminary UST investigation was undertaken in July 2007 as part of the Project to determine if UST A had impacted the environmental condition of soil and groundwater on the Island and to obtain information necessary to determine the scope of work

necessary for UST removal. The investigation consisted of collecting soil, groundwater, and tank content samples to assess the environmental impact of UST A to the Island.

A total of six subsurface soil samples were collected from four borings installed around UST A and one boring installed beneath the fill piping during the UST, as shown on Figure 3. Soil samples were collected using a direct push drill rig and field screened for evidence of contamination during sample collection. Field screening consisted of examining soils for petroleum odors and visual impacts (i.e., staining, product, etc.) and screening the soils for volatile organic compounds (VOCs) using a photoionization detector (PID). No evidence of petroleum contamination was encountered in the vicinity of UST A during the field screening. One groundwater sample was collected from beneath the south end of the UST. Since no evidence of contamination was found, soil samples were collected from the soil/groundwater interface and forwarded to a New York State Department of Health (NYSDOH)-Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis of the Spill Technology and Remediation Series (STARS) listed parameters, plus lead.

As shown on Table 1, analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) Restricted Residential Soil Cleanup Objectives (RRSCO). Restricted-residential use, as set forth in subparagraph 375-1.8(g)(2)(ii), is the applicable soil cleanup objective (SCO) for comparison of the soil analytical results based on the planned future use of the Island. Review of the analytical results revealed that the STARS-listed compounds found in the soil samples were all below NYSDEC RRSCO except at one location where benzo(a)anthracene was detected at 1.04 milligrams per kilogram (mg/kg), slightly exceeding its criteria of 1 mg/kg (see Table 1 and Appendix C). This exceedance may be attributable to the fill material used to backfill the UST excavation during the historic installation, as can be seen in the boring logs in Appendix A. Section 1.1.5 of this Report provides a more detailed description of the fill material present in varying concentration across the Island. The groundwater sample was analyzed for Target Compound List (TCL) VOCs. No TCL VOCs were detected in the groundwater sample; therefore, no summary table is provided, however the analytical results are included in Appendix C.

UST A consisted of a 10,000-gallon, ¼-inch thick, riveted, single-walled steel tank, approximately 30-feet long by 8-feet in diameter. The tank was buried without a vault and held down by steel bands anchored into the surrounding soil. At the time of the SI, UST A contained approximately eight inches of a gasoline/water mixture. A waste classification sample of the tank contents was collected using ¼-inch polyethylene tubing and a check valve. This waste classification sample was analyzed for full TCL/Target Analyte List (TAL) analysis, Toxicity Characteristic Leaching Procedure (TCLP) constituents, and Resource Conservation and Recovery Act (RCRA) characteristics, as

shown on Table 2. Review of the analytical results revealed that the aqueous material in the tank exceeded the Toxicity Characteristic (TC) regulatory limits for 1,2-dichloroethane, benzene, and lead.

UST B consisted of a 550-gallon single walled, 1/16-inch thick, single-walled steel tank, approximately 6-feet long by 4 feet in diameter. UST B was located in a vault that was constructed out of bricks and stone block approximately 5-feet wide by seven-feet long. The floor of the vault was inaccessible due to the presence of debris and rubble; therefore, no surface or subsurface samples were collected during the SI. UST B was approximately half filled with No. 2 fuel oil and sludge. A sample of the UST contents was collected using a polyethylene bailer and analyzed for full TCL/TAL analysis, TCLP constituents, RCRA characteristics, sulfur content, BTU, reactive/releasable cyanide, reactive/releasable sulfide, and fingerprint analysis (Table 3). This sample was run as a solid due to the percentage of solids present in the sample from the sludge. The material within this UST exceeded the TC regulatory level for benzene.

1.1.5 Summary of Davids Island Environmental Restoration SI Findings

The SI consisted of a comprehensive soil and groundwater investigation undertaken by TtEC on behalf of the City to identify potential sources of contamination on Davids Island. The SI revealed that soil across the Island is primarily affected by concentrations of polycyclic aromatic hydrocarbons (PAHs), pesticides (4,4-DDT and 4,4-DDE), and metals, along with PCBs in select areas. The PAH and metal constituents were frequently detected in the samples collected as part of this SI, and are relatively widespread in the soils across the Island. The concentrations of PAHs and metals generally appear to be ubiquitous in the surface soil across the Island, but higher concentrations (and therefore more elevated exceedances) for these constituents are generally observed at areas with extensive amounts of historic fill and reworking of soils. The emplacement of historic fill materials during Island development and operations is likely the source of the majority of the PAH and metals concentrations detected at the Island.

2.0 PHYSICAL SETTINGS

2.1 Surface Features and Topography

The Island has an average elevation of approximately 20 feet above mean sea level (msl) and the ground surface generally slopes radially outward and down from the center of the Island to the surrounding Long Island Sound waters. The southeastern portion of the Island contains a topographic high, with the highest elevation at approximately 50 feet above msl.

There is little to no standing or flowing fresh water on the Island, and no fresh water wetlands are present.

2.2 Geology

Davids Island is located within the Piedmont physiographic province of New York. The Island is generally covered with approximately 5 to 20 feet of overburden soils. A bedrock outcrop is visible primarily along the southeastern shoreline of the Island. The Geologic Map of New York State indicates the Island bedrock consists of metamorphic rock (amphibolite and schist) identified as the Hartland Formation.

The Hartland Formation is a northeast-southwest striking unit located throughout much of the Long Island Sound coastal area in Westchester County and the eastern Bronx. A description of the Hartland Formation from observation made at Pelham Bay Park on Long Island Sound, about a mile southwest of Davids Island, indicates the exposed Hartland outcrop along the park's battered shoreline "consists of granitic and garnetiferous amphibolite gneiss with numerous quartz veins and migmatite dikes." The presence of migmatite resulted from igneous injection under high temperature and pressure into zones of weakness within the metamorphic rocks forming quartz and feldspar crystals.

The overburden soils consist mostly of glacial till comprising sand, silt, and gravel, along with substantial amounts of fill materials placed during the development and operation of the Island. The surficial soils throughout a majority of the upland areas of the Island consist of a layer of organic sandy silts and silty sands ranging to depths of 0.5 to 2.5 feet below ground surface (bgs). Varying amounts and thicknesses of fill materials consisting of coal fragments, cinder, brick, and ash were present in the surficial soils near a majority of the building footprints, roadways, and other areas of high activity (such as the former dock, the former forge, and the barracks) at the Island.

2.3 Soils

According to the Environmental Assessment performed by the USACE, the Soil Conservation Service (SCS) Soil Survey of Westchester County, and the United States Department of Agriculture website, four native soil types have been mapped above the tidal zone at Davids Island (USACE, 2005). The four upland soil types and approximate land percentages are: Urban land – Paxton Complex (50%), Udorthents (30%), Charlton – Chatfield Complex (15%) and Raynam Silt Loam (5%).

The Urban land-Paxton Complex is typically about one-half urban land, one-quarter Paxton soils, and one-quarter other soils. The Paxton component typically consists of well drained soils (sandy loam) on uplands, formed in glacial till derived mainly from schist, gneiss, and granite. Bedrock is typically deeper than 5 feet, and the seasonal high water table is typically at depths of 1.5 to 2.5 feet bgs. This unit comprises much of Davids Island's interior core (although water is not present), with slopes less than 8 percent for at least 80 percent of its coverage. A small portion in the east-central interior is slightly steeper.

Udorthents are cut and fill areas, typically level or nearly level. Surface material consists of loose or firm glacial till or bedrock that may or may not contain rock rubble. Much of Davids Island's shoreline and several hundred feet inland along the southwestern portion consist of Udorthents, with a water table typically less than 2 feet bgs. This unit may include rocky fill, retaining walls and piers. A slightly higher portion of the Island adjacent to the eastern embayment consists of Udorthents with a deeper water table.

Charlton-Chatfield Complex typically consists of well-drained, medium-texture, and moderately coarse-textured soils formed in gravelly and stony glacial till deposits. In this unit, rock exposures 30 to 100 feet apart often cover about 10 to 25 percent of the surface. Bedrock is from 4 to 6 feet bgs.

Raynham Silt Loam consists of poorly-drained soils on marine plains, on slopes from 0 to 12 percent. Bedrock is typically deeper than 5 feet, and the seasonal high water table is typically at depths of 0.5 to 2 feet bgs. This unit is found on a small upland portion of the Island in the northwest.

Beaches occupy the intertidal zones at the Island. The intertidal beaches are typically gently sloping and on the order of 100 feet wide at low tide, consisting of sand, gravel and cobbles of broken and weathered bedrock. The soils present at the beach along the western shore of the Island typically contain a higher silt component. Small sandy beaches are observed above the normal tidal zone near the piers on the western side and in the eastern embayment. The southwestern portion of the Island typically has small

strips of sand interspersed with rocky areas. Incineration debris and coal fragments were noted within the gently sloping sand of the southeastern beach. At the mean low tide line, this beach drops off significantly (approximately 60 degree angle).

2.4 Hydrogeology

As indicated in Section 2.2, the Hartland Formation generally comprises much of the northwestern Long Island Sound shore including Davids Island. The Hartland Formation is a complex metamorphic geologic unit typically classified as schist. A substantial percentage of the county's groundwater supply is derived from the schist units occurring in the northern and southeastern (Hartland) portions of the county (Asselstein and Grossman, 1955). Two wells, installed in New Rochelle about a mile northwest of Davids Island, were reportedly completed in schist to depths of 109 feet and 550 feet bgs and yielded 25 and 35 gallons per minute (gpm), respectively (Asselstein and Grossman, 1955). These data suggest substantial groundwater transmitting properties through fractures, joints, faults, and intrusive units within the Hartland Formation.

At Davids Island, previous investigations conducted by the United States Coast Guard as part of an Environmental Impact Statement (EIS) indicated no significant groundwater reserves are present in either the overburden or bedrock at depths ranging between 1.5 and 120 feet bgs. Groundwater on Davids Island was not used as a significant source of potable water when Fort Slocum was an active military installation, and is not currently used as a source of potable water (AKRF, 2002; USACE, 2005). No future use of the groundwater on the Island for potable purposes is anticipated.

Limited perched groundwater was encountered in the overburden during previous investigations conducted at the southwestern portion of the Island at depths ranging between approximately 5 to 7 feet bgs. If present, the expected flow of groundwater within the overburden would likely be in a radially outward direction from the center of the Island towards the shorelines and Long Island Sound.

Observations made during the SI activities indicate water is present as small isolated areas of seasonally-observed perched groundwater, with the exceptions of the east-central portion and the perimeter around the Island. The northern east-central portion contained groundwater perched on top of a clay layer at approximately 4 to 6 feet bgs at the location of a former pond that was filled in 1909 by the United States Army. The first 150 to 200 feet of the Island, generally from the shoreline to the perimeter road, is tidally influenced by the Long Island Sound. Water is likely present in the border areas during the high point of the tide.

3.0 UST REMOVAL ACTIVITIES

UST removal activities were performed by TtEC on October 9, 2008. Mr. Marc Grazioli of the Westchester County Department of Health (WCDOH) and Lt. Robert Bongiorni of the City of New Rochelle Fire Department (NRFD) were present during the removal activities. A summary of the UST removal activities is provided below.

3.1 UST A

3.1.1 UST Removal Activities

The dispenser pump and associated concrete pad were removed from the north end of UST A to gain access to the tank for cleaning (Photos 1 and 2). The dispenser pump island was attached directly to the UST at the north end, so no soil was present beneath the pad. No staining, odors, or other indications of a petroleum release were observed on the concrete of the dispenser pump island, and it was disposed via recycling in conjunction with other demolition material generated by the USACE on-site demolition activities. No samples were collected from beneath the dispenser pump island due the to absence of soil.

After the dispenser pump island was removed from UST A, the top of the UST was exposed by removing concrete and soil using an excavator (Photo 3). Material removed from around the UST was field screened for evidence of petroleum contamination (i.e. petroleum odors, staining, elevated PID readings, etc.). Since none of the soil exhibited evidence of petroleum contamination, the soil was stockpiled for re-use in backfilling the excavation. Concrete removed from the top of the UST was recycled in conjunction with the USACE demolition project. After the overlying soils were removed, the manway on the east side of the UST was opened and the contents of the UST were removed using a vactor truck (Photos 4 through 6). Sediment and sludges remaining in the UST were then washed out of the tank using a fire hose, and the wash water was evacuated from the UST using the vactor truck.

After the tank contents were removed, dry ice was placed in the interior of the UST to render the internal atmosphere inert. Once lower explosive limit (LEL) readings were at an acceptable level (below 10% LEL), UST A was removed from the excavation using a grapple and placed on heavy duty polyethylene sheeting (Photos 7 through 12). The tank was then inspected for holes (Photos 13 and 14). No holes or residual material were present in and/or on the UST, so the UST was sheared and added to the USACE steel stock pile for future recycling. Post-excavation samples were collected in accordance with Section 3.1.2 of this Report. Then, a liner of high density polyethylene sheeting was

placed in the excavation, and the excavation was backfilled with the stockpiled soil and recycled concrete obtained from the USACE demolition project.

Once UST A was removed, the remote fill piping was traced from the northwest side of the UST to the former dock area, as shown in Figure 3 (Photos 19-21). No holes or evidence of a release were observed in the vicinity of the remote fill piping, and it was removed from the excavation. The piping was added to the USACE steel stock pile for recycling since no residual material remained within it. Samples were collected from beneath the pipe joints in accordance with Section 3.1.2 of this report, and the excavation was backfilled with recycled concrete.

The UST's vent pipe was removed during the Building 40 demolition activities and no other piping or supplies lines were discovered during the UST removal. No groundwater was encountered during the UST removal activities.

3.1.2 Sample Collection

Post-excavation samples were collected from the UST A system excavation in accordance with NYSDEC's STARS Memo #1 and Draft Technical Guidance for Site Investigation and Remediation (DER-10). The UST excavation was 30 feet long by 12 feet wide (Photos 15 through 18), as shown in Figure 3, so two bottom samples, six sidewall samples, and four piping samples were collected. Prior to sample collection, soils were inspected for visual and olfactory evidence of contamination then field screed for VOCs using a PID. No evidence of a release was encountered, so no biased samples were collected from within the UST excavation. The two bottom samples (40B1 and 40B2) were collected from 0 to 2 feet beneath the center line of the former UST. The six sidewall samples (40S1 through 40S6) were collected from soils that were directly in contact with the UST, approximately 2.5 feet (1/3 the distance) from the bottom of the UST. The four piping samples (40P1 through 40P4) were collected from the two foot interval beneath the four pipe joints associated with the remote fill piping. Post-excavation sampling locations are shown on Figure 3.

No groundwater samples were collected from the excavation since groundwater was not encountered during the UST removal activities.

The post-excavation soil samples collected from UST A were forwarded to a NYSDOH ELAP-certified laboratory for STARS-listed VOCs and SVOCs, lead, and gasoline range organics (GRO). The analytical results of these samples are discussed in Section 4.1 of the report.

3.2 UST B

3.2.1 UST Removal Activities

UST B was exposed by removing the concrete slab on top of the UST vault. No sign of contamination was seen on the concrete, so it was recycled for re-use on the island. After an access point was cut into the top of UST B (Photo 32), the unused product and sludge were evacuated from the tank using a vactor truck. Once the material was removed from the tank, the interior of the tank was cleaned of residual product using shovels and sorbent pads (Photos 33 and 34). The residual sludges and contaminated pads were containerized in a 55-gallon drum and transported off-site for disposal.

After the UST was cleaned, it was inspected for holes. No holes were evident while the UST was in the excavation, so the tank was extracted from the vault using a grapple (Photos 35 and 36). The tank was placed on heavy duty polyvinyl sheeting, and rust scale was removed from the exterior of the tank using a shovel (Photo 37). A small pinhole was exposed on the south end of the UST after the scale was removed (Photos 40 and 41). The material in the vicinity of this pinhole within the UST vault was investigated for evidence of a release (Photo 42). No staining or petroleum odors were present; however, soil in the vicinity of the pinhole exhibited a maximum headspace reading of 41.1 parts per million (ppm) so soil sample 61B1 was collected from this location, as described in Section 3.2.2. In addition, one location in the north end of the UST vault exhibited a very slight petroleum odor and a headspace reading of 141 ppm so sample 61B2 was collected. TtEC personnel discussed these findings with WCDOH personnel in the field and came to a joint decision to forward the samples for laboratory analysis to determine if the soil samples contained exceedances the NYSDEC RRSCOs. WCDOH personnel informed TtEC that no additional excavation would be necessary if the soil samples did not exceed the NYSDEC RRSCO values.

After the condition of the UST was documented and the endpoint samples were collected, the UST was sheared and the steel was added to the USACE stock-pile for recycling. The UST B vault area was backfilled with crushed concrete.

No groundwater was encountered during the UST removal activities, and no piping was observed entering or exiting the UST vault.

3.2.2 Sample Collection

Post-excavation samples were collected from the UST system excavation in accordance with NYSDEC's STARS Memo #1 and DER-10. The tank was located in a vault with masonry and stone sidewalls, approximately 7-foot long by 5-foot wide, with a bottom consisting of fill material predominately composed of concrete and brick, with varying

amounts of sand and clay. As such, only two endpoint samples were collected from the bottom of the excavation. Sample 61B1 was collected from the material directly beneath the pinhole, and sample 61B2 was collected from the location that exhibited a slight petroleum odor in the north side of the excavation.

No groundwater samples were collected from the excavation, since no groundwater was encountered during the UST removal activities.

The post-excavation soil samples collected from UST B were forwarded to a NYSDOH ELAP-certified laboratory for STARS-listed VOCs and SVOCs, and diesel range organics (DRO). The analytical results of these samples are discussed in Section 4.2 of the report.

4.0 FINDINGS

4.1 UST A

Table 4 presents a summary of the UST A pos- excavation sampling results. A discussion of the findings is presented below.

Eight VOCs (benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, toluene, naphthalene, m/p-xylene, and o-xylene) were detected in the soil samples associated with UST A. None of these VOCs were present at levels above NYSDEC RRSCOs.

Fifteen STARS SVOCs were detected in the soil samples, with seven compounds (benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(a)anthracene, indeno(1,2,3-cd)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene) detected at levels exceeding NYSDEC RRSCOs. Values ranged from non-detect to 8.31 mg/kg (benzo(a)anthracene in sample 40P1, collected from the piping area). Exceedances of NYSDEC RRSCOs were observed in seven of the thirteen soil samples collected. With the exception of sample 40P1, the values observed for the SVOCs are similar in concentration to observed in fill material levels located throughout Davids Island. Sample 40P1 was collected from a layer of coal ash and pulverized coal. Based on the above information, the detected SVOCs are not anticipated to have been impacted by the presence and removal of the UST.

Lead was detected in all of the soil samples, but at levels at (404 mg/kg) or below its NYSDEC RRSCO (400 mg/kg).

Gasoline range organics were detected in six of the soil samples, in concentrations ranging from 16.6 mg/kg to 50.7 mg/kg.

4.2 UST B

Table 5 presents the summary of UST B post excavation sampling results. A discussion of the findings is presented below.

Fifteen STARS VOCs were detected in the two soil samples. However, none of the VOCs were present at levels above NYSDEC RRSCO.

Fifteen STARS SVOCs were detected in the two soil samples; however, none of the SVOCs were present at levels above NYSDEC RRSCO.

Diesel range organics were detected in both soil samples, in concentrations ranging between 4,160 mg/kg and 17,300 mg/kg.

5.0 CONCLUSIONS

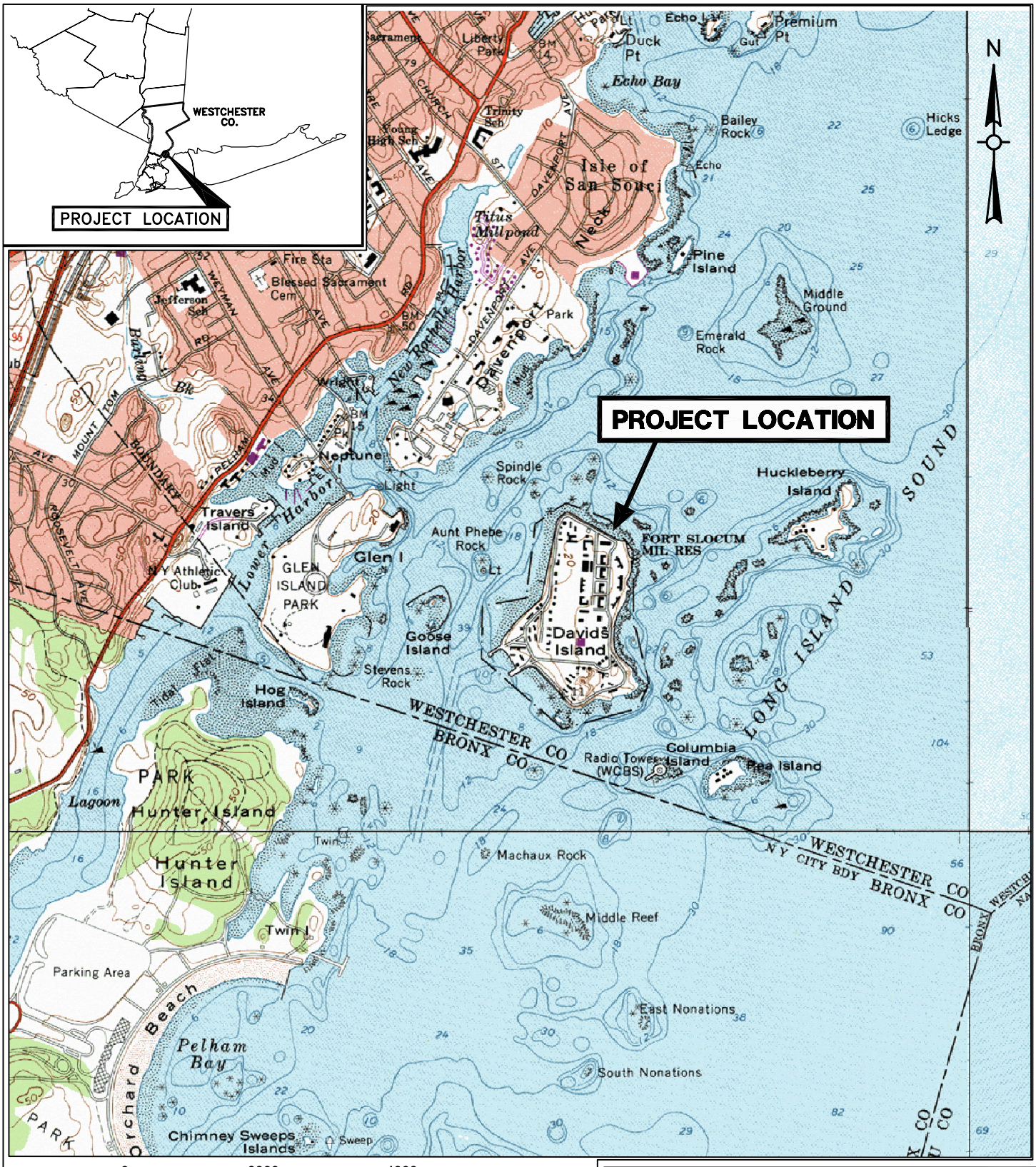
5.1 UST A

No holes or defects were found in the removed UST, and no evidence of staining or product was observed in the soil in the vicinity of UST A. Some SVOCs were detected at levels exceeding NYSDEC RRSCOs; however, these levels are generally comparable to PAH concentrations detected in fill present throughout Davids Island. The soil from the excavation area does not appear to have been impacted by the UST. The identified contamination present in the fill material will be addressed as part of the City's Davids Island Environmental Restoration Project. As such, TtEC requests that the WCDOH close UST A.

5.2 UST B

A small pinhole was discovered on the south side of the UST after scale was removed from the exterior of the tank. No evidence of staining was observed on the soil in the vicinity of the tank. Soil samples collected from the bottom of the excavation area revealed no exceedances of NYSDEC RRSCOs. As such, TtEC requests that the WCDOH close UST B.

FIGURES



TETRA TECH EC, INC.

Source:
USGS 7.5 Minute Series Topographic Maps: Mount Vernon, NY, 1966, photorevised 1979, Sea Cliff, NY, 1968, photorevised 1979, Mamaroneck, NY–CT, 1967, photoinspected 1975, and Flushing NY, 1966, photorevised 1979

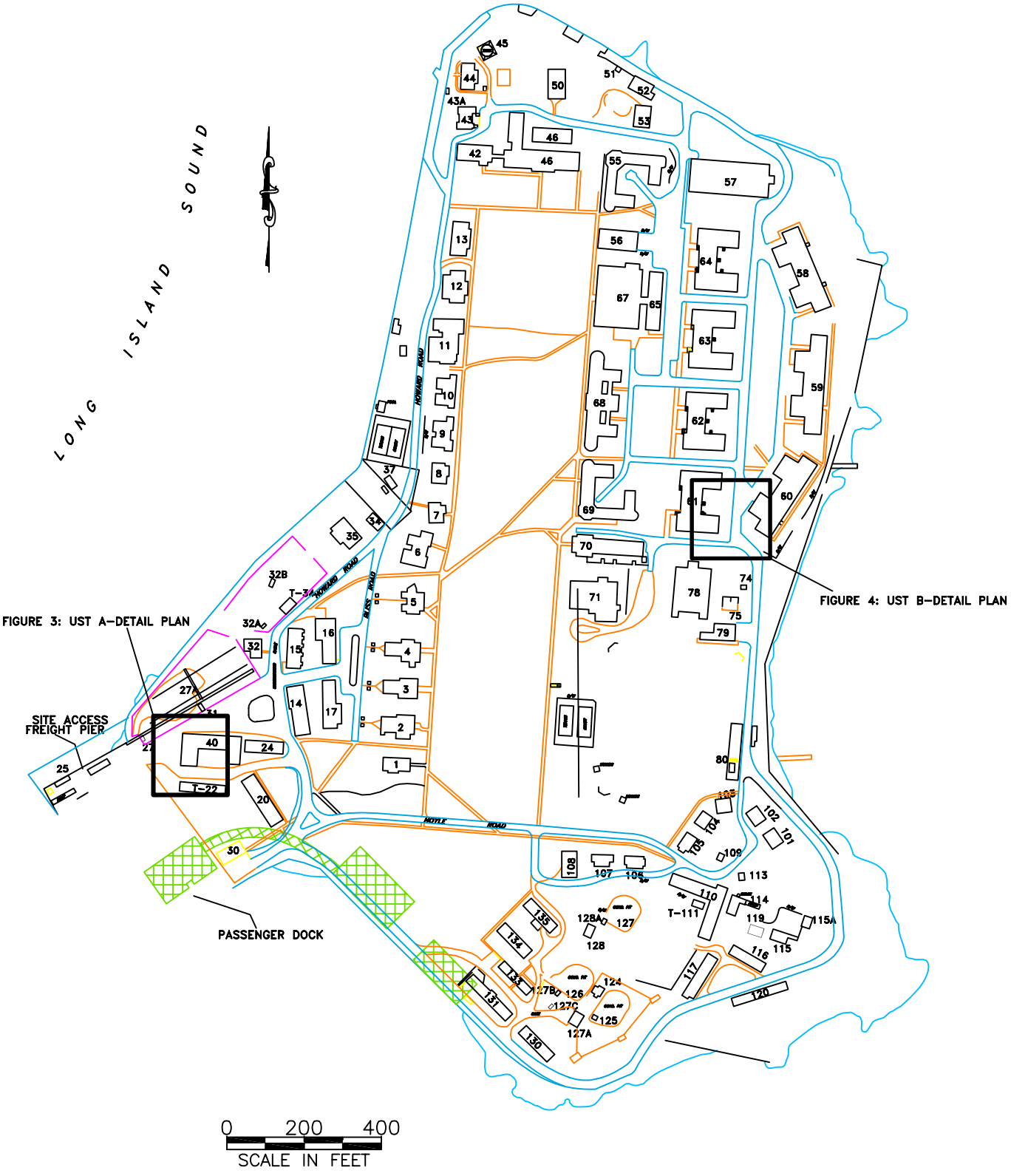
FIGURE 1

DAVIDS ISLAND
NEW ROCHELLE, NEW YORK

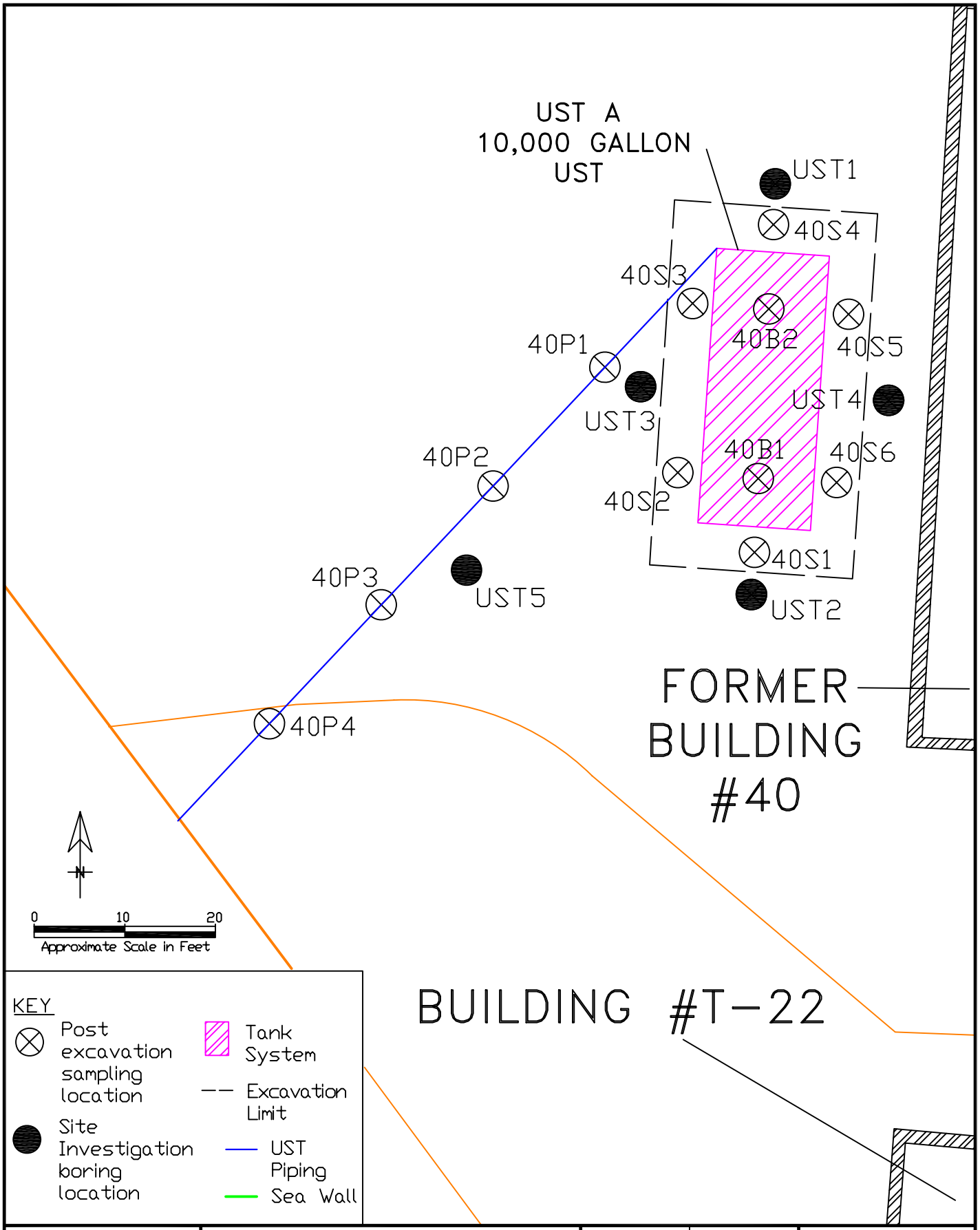
PROJECT LOCATION MAP

SCALE: AS SHOWN

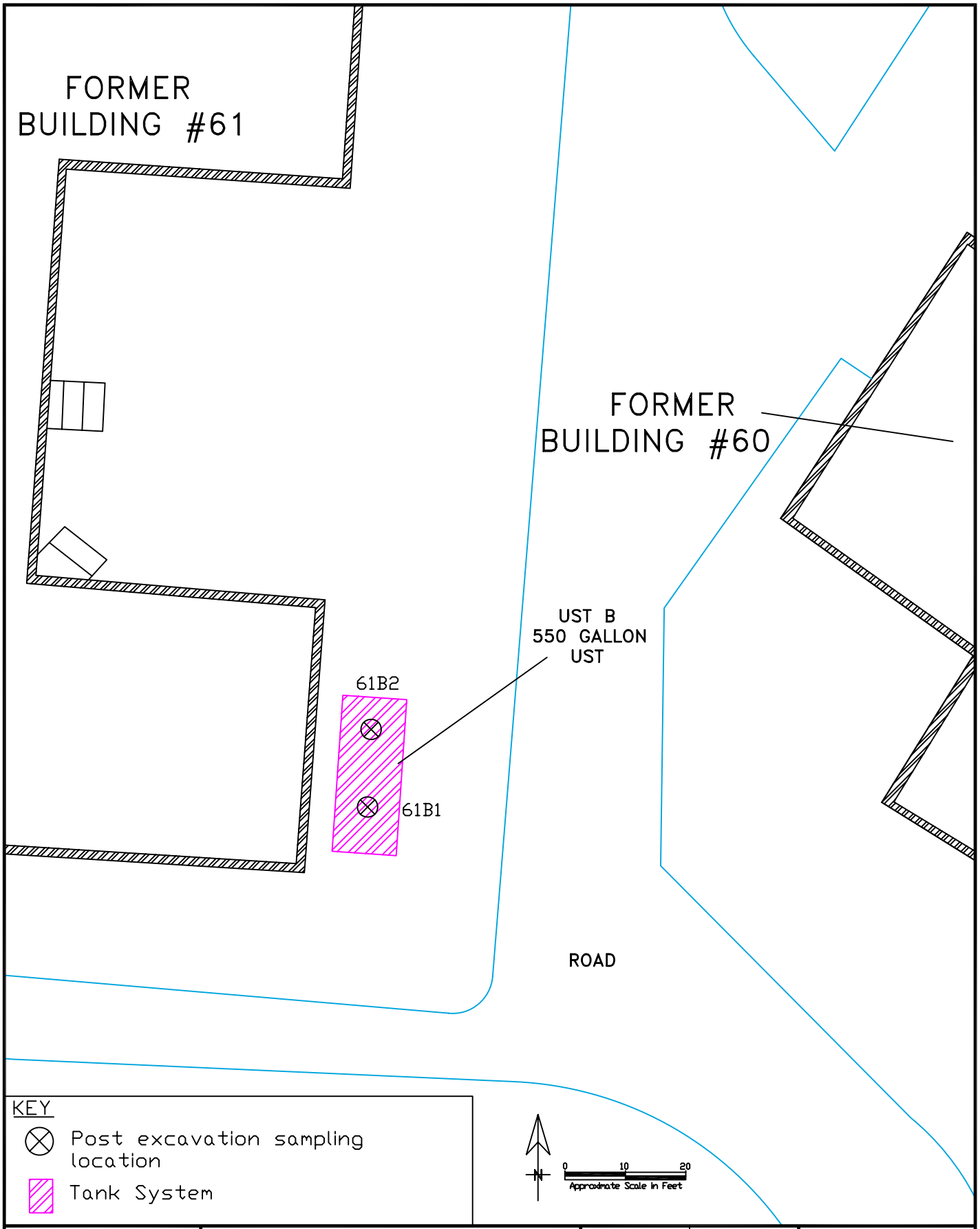
CADDFILE: 2880–A001.DWG



TETRA TECH EC, INC.	TITLE: Davids Island UST Location Plan New Rochelle, New York	DWN: MR	DES.: EMDS	PROJECT NO.:
		CHKD:	APPD:	FIGURE NO.: 2
		DATE: 12/2/2008	REV.:	



TETRA TECH EC, INC.	TITLE: Davids Island UST A – Detail Plan New Rochelle, New York	DWN: MR	DES.: EMDS	PROJECT NO.:
		CHKD:	APPD:	FIGURE NO.: 3
		DATE: 12/2/2008	REV.:	



TETRA TECH EC, INC.	TITLE: Davids Island UST B – Detail Plan New Rochelle, New York	DWN: MR	DES.: EMDS	PROJECT NO.:
		CHKD:	APPD:	FIGURE NO.: 4
		DATE: 12/2/2008	REV.:	

TABLES

Table 2
UST A Waste Classification Results
Davids Island Underground Storage Tank Closure Report

Location ID Sample ID Sample Date	Maximum Concentrations for the Toxicity Characteristic (mg/L except as noted)	UST A USTWC01 7/10/2007
AQUEOUS MATERIAL		
Volatile Organic Compounds (ug/L)		
1,2,4,5-Tetramethylbenzene	NC	9,380
1,2,4-Trimethylbenzene	NC	15,900
1,2-Dichloroethane	500 ug/L	**6,020**
1,3,5-Trimethylbenzene	NC	38,300
2-Butanone	200000 ug/L	178,000
Acetone	NC	46,000
Benzene	500 ug/L	**53,900**
Ethylbenzene	NC	11,700 J
Isopropylbenzene	NC	7,500
m,p-xylene	NC	43,500
Methylene chloride	NC	U
Naphthalene	NC	15,900
n-Propylbenzene	NC	24,200
o-xylene	NC	18,900
p-Ethyltoluene	NC	11,300 J
p-Isopropyltoluene	NC	5,340
sec-Butylbenzene	NC	2,360 J
Toluene	NC	99,000
Semi-Volatile Organic Compounds (ug/L)		
2,4-Dimethylphenol	NC	596
2-Methylnaphthalene	NC	7,950
2-Methylphenol	NC	601
3+4-Methylphenol	NC	89.3 J
Acenaphthene	NC	50.5 J
Anthracene	NC	59.2 J
Fluoranthene	NC	45.1 J
Fluorene	NC	108 J
Naphthalene	NC	15,900
Phenanthrene	NC	135 J
Pyrene	NC	60.9 J
Metals (mg/L)		
Barium	100	3.85
Calcium	NC	31.1
Chromium	5	0.058
Cobalt	NC	0.038
Copper	NC	2.19
Iron	NC	1,310
Lead	5	**85.8**
Magnesium	NC	14.7
Manganese	NC	5.64
Mercury	0.2	0.0023
Nickel	NC	0.1
Potassium	NC	16.1
Sodium	NC	138
Zinc	NC	2.96

Table 2
UST A Waste Classification Results
Davids Island Underground Storage Tank Closure Report

Location ID Sample ID Sample Date	Maximum Concentrations for the Toxicity Characteristic (mg/L except as noted)	UST A USTWC01 7/10/2007
Other		
pH (standard units)	≤ 2 or ≥ 12	4.80
Flash Point (degrees Celcius)	<60	> 100
LEACHATE PHASE		
TCLP (mg/L)		
1,2,4-Trimethylbenzene	NC	5.53
1,2-Dichloroethane	0.5	**3**
1,3,5-Trimethylbenzene	NC	1.44 J
2-Butanone	NC	131
2-Methylphenol	200	0.83
3+4-Methylphenol	200	0.12
4-Isopropyltoluene	NC	U
Barium	100	0.28
Benzene	0.5	**14.6**
Cresols	200	0.95
Ethylbenzene	NC	6.49
Isopropylbenzene	NC	U
Lead	5	2.27
m,p-Xylene	NC	23.7
Mercury	0.2	0.00014
Naphthalene	NC	1.1 J
n-Propylbenzene	NC	0.73 J
o-Xylene	NC	11
sec-Butylbenzene	NC	U
Toluene	NC	57.1

Notes:
TCLP - Toxicity Characteristic Leaching Procedure
Values shaded and in **BOLD** exceed comparison criteria
NC = No criteria
J = Estimated
U = Not detected

Table 1
Summary of Detected Compounds in Soil During Site Investigation
Davids Island Underground Storage Tank Closure Report

Location ID Sample ID Sample Date Depth Range (feet) % Solids	NYSDEC Restricted Residential Soil Criteria	UST01 USTSB01-02-03 7/9/2007 2-3 89.7	UST01 USTSB01-10-11 7/9/2007 10-11 90.6	UST02 USTSB02-08-09 7/9/2007 8-9 92.2	UST03 USTSB03-08-09 7/9/2007 8-9 80.4	UST04 USTSB04-08-09 7/9/2007 8-9 91.8	UST05 USTSB05-09-10 7/9/2007 9-10 82.8
Semi-Volatile Organic Compounds (mg/kg)							
Acenaphthene	100	U	U	U	0.16 J	U	U
Acenaphthylene	100	0.038 J	U	U	0.09 J	0.03 J	U
Anthracene	100	0.053 J	U	0.03 J	0.57 J	0.08 J	0.05 J
Benzo(a)anthracene	1	0.363 J	U	0.07 J	**1.04**	0.33 J	0.09 J
Benzo(a)pyrene	1	0.383 J	U	0.06 J	0.85	0.28 J	U
Benzo(b)fluoranthene	1	0.404 J	U	0.06 J	0.65	0.28 J	U
Benzo(g,h,i)perylene	100	0.331 J	U	U	0.47 J	0.22 J	U
Benzo(k)fluoranthene	4	0.341 J	U	0.06 J	0.78	0.28 J	U
Chrysene	4	0.464 J	U	0.08 J	1.03	0.36 J	0.09 J
Dibenzo(a,h)anthracene	0	U	U	U	0.21 J	0.08 J	U
Fluoranthene	100	0.611	U	0.20 J	2.56	0.74	0.22 J
Fluorene	100	U	U	U	0.25 J	U	U
Indeno(1,2,3-cd)pyrene	1	0.287 J	U	U	0.41 J	0.2 J	U
Naphthalene	100	0.073 J	U	U	0.05 J	U	U
Phenanthrene	100	0.339 J	U	0.14 J	2.24	0.33 J	0.16 J
Pyrene	100	0.555 J	U	0.13 J	2.1	0.55	0.15 J
Total Carcinogenic PAHs	NC	2.24	U	0.34	4.96	1.81	0.18
Total Non-Carcinogenic PAHs	NC	2.00	U	0.50	8.49	1.95	0.58
Total PAHs	NC	4.24	U	0.84	13.45	3.75	0.76
Inorganics (mg/kg)							
Lead	400	181	2.75	1.78	108	133	3.68

Notes:
Criteria Source - New York State Department of Environmental Conservation Restricted Residential Soil Cleanup Objectives, Effective December 14, 2006
Values shaded and in **BOLD** exceed comparison criteria
PAHs = Polycyclic Aromatic Hydrocarbons
NC = No criteria
J = Estimated
U = Not detected

Table 4
UST A Closure Sample Results - Detected Compounds
Davids Island Underground Storage Tank Closure Report

Sample ID Sample Date Units	NYSDEC RRSCOs mg/Kg	40B1 10/9/2008 mg/Kg	40B2 10/9/2008 mg/Kg	40S1 10/9/2008 mg/Kg	40S2 10/9/2008 mg/Kg	40S3 10/9/2008 mg/Kg	40S4 10/9/2008 mg/Kg
STARS Volatile Organic Compounds							
1,2,4-Trimethylbenzene	52	0.005 J	U	U	U	0.002 J	U
1,3,5-Trimethylbenzene	52	0.003 J	U	U	U	0.001 J	U
Benzene	5	0.004 J	U	U	U	U	U
Ethylbenzene	41	0.003 J	U	U	U	U	U
m,p-xylene	100*	0.01 J	U	U	U	0.003 J	U
Naphthalene	100	0.151 J	0.097 J	0.187 J	U	0.084 J	U
o-xylene	100*	0.006	U	U	U	0.001 J	U
Toluene	100	0.014	U	U	0.001 J	0.003 J	U
Xylenes (total)	100	0.017 J	U	U	U	0.004 J	U
STARS Semi-Volatile Organic Compounds							
Acenaphthene	100	0.34 J	U	U	0.053 J	0.195 J	U
Acenaphthylene	100	0.24 J	0.156 J	0.088 J	0.159 J	0.074 J	U
Anthracene	100	0.96	0.146 J	0.053 J	0.295 J	0.903	U
Benzo(a)anthracene	1	**3.75**	0.86	0.215 J	**1.01**	**2.34**	0.159 J
Benzo(a)pyrene	1	**3.47**	0.925	0.288 J	0.942	**1.82**	0.153 J
Benzo(b)fluoranthene	1	**2.81**	0.843	0.299 J	0.899	**1.53**	0.141 J
Benzo(g,h,i)perylene	100	1.83	0.589 J	0.238 J	0.602	0.879	U
Benzo(k)fluoranthene	4	3.05	0.811	0.265 J	0.803	1.77	0.131 J
Chrysene	4	3.73	0.931	0.261 J	1.08	2.1	0.185 J
Dibenzo(a,h)anthracene	0.33	**0.76**	0.228 J	0.082 J	0.246 J	**0.381** J	U
Fluoranthene	100	8.13	1.56	0.319 J	1.98	5.72	0.285 J
Fluorene	100	0.47 J	U	U	0.091 J	0.245 J	U
Indeno(1,2,3-cd)pyrene	0.5	**1.99**	**0.582** J	0.227 J	**0.614**	**0.99**	0.083 J
Phenanthrene	100	5.03	0.55 J	0.169 J	0.944	3.45	0.153 J
Pyrene	100	6.31	1.32	0.259 J	1.49	4.39	0.238 J

Table 4
UST A Closure Sample Results - Detected Compounds
Davids Island Underground Storage Tank Closure Report

Sample ID Sample Date Units	NYSDEC RRSCOs mg/Kg	40B1 10/9/2008 mg/Kg	40B2 10/9/2008 mg/Kg	40S1 10/9/2008 mg/Kg	40S2 10/9/2008 mg/Kg	40S3 10/9/2008 mg/Kg	40S4 10/9/2008 mg/Kg
Inorganics							
Lead	400	174	**404**	109	41.2	145	132
Petroleum Hydrocarbons							
Gasoline Range Organics	NC	45.2	U	22.1	U	U	U

Notes:
NYSDEC RRSCOs - New York State Department of Environmental Conservation Restricted Residential Soil Cleanup Objectives, Effective December 14, 2006
Values shaded and in **BOLD** exceed comparison criteria
* Value corresponds to total xylenes
J = Estimated
NC = No criteria
U = Non-detect
STARS = Spill Technology and Remediation Series

Table 4
UST A Closure Sample Results - Detected Compounds
Davids Island Underground Storage Tank Closure Report

Sample ID Sample Date Units	NYSDEC RRSCOs mg/Kg	40S5 10/9/2008 mg/Kg	40S6 10/9/2008 mg/Kg	40P1 10/9/2008 mg/Kg	40P2 10/9/2008 mg/Kg	40P12 Duplicate of 40P2	40P3 10/9/2008 mg/Kg	40P4 10/9/2008 mg/Kg
STARS Volatile Organic Compounds								
1,2,4-Trimethylbenzene	52	U	0.001 J	U	U	U	U	U
1,3,5-Trimethylbenzene	52	U	0.002 J	U	U	U	U	U
Benzene	5	0.001 J	U	U	U	U	U	U
Ethylbenzene	41	U	U	U	U	U	U	U
m,p-xylene	100*	0.003 J	0.002 J	U	U	U	U	U
Naphthalene	100	0.255 J	0.119 J	0.249 J	0.129 J	0.154 J	2.45	0.06 J
o-xylene	100*	0.001 J	0.003 J	U	U	U	U	U
Toluene	100	0.005 J	0.002 J	0.001 J	U	U	U	U
Xylenes (total)	100	0.004 J	0.005 J	U	U	U	U	U
STARS Semi-Volatile Organic Compounds								
Acenaphthene	100	0.079 J	0.234 J	0.144 J	U	0.051 J	U	U
Acenaphthylene	100	0.049 J	0.104 J	0.121 J	0.091 J	0.118 J	U	0.096 J
Anthracene	100	0.184 J	1.04	1.13	0.105 J	0.377 J	U	0.061 J
Benzo(a)anthracene	1	0.54 J	**2.92**	**8.31**	0.59	**2.6**	U	0.511 J
Benzo(a)pyrene	1	0.464 J	**2.37**	**7.53**	0.633	**2.32**	U	0.552
Benzo(b)fluoranthene	1	0.422 J	**1.96**	**5.71**	0.64	**2.01**	0.048 J	0.591
Benzo(g,h,i)perylene	100	0.281 J	0.973	3.57	0.437 J	1.31	U	0.321 J
Benzo(k)fluoranthene	4	0.397 J	2.04	**6.51**	0.606	2.13	U	0.542
Chrysene	4	0.569 J	2.66	**7.62**	0.76	2.42	0.114 J	0.602
Dibenzo(a,h)anthracene	0.33	0.119 J	**0.449** J	**1.54**	0.184 J	**0.521** J	U	0.149 J
Fluoranthene	100	1.08	7.15	13.7	1.09	5.03	U	0.716
Fluorene	100	0.075 J	0.341 J	0.151 J	U	0.064 J	U	U
Indeno(1,2,3-cd)pyrene	0.5	0.278 J	**1.11**	**3.86**	0.439 J	**1.37**	U	0.34 J
Phenanthrene	100	0.874	4.66	4.13	0.426 J	1.41	0.121 J	0.246 J
Pyrene	100	0.9	5.24	11	0.934	3.77	0.053 J	0.557

Table 4
UST A Closure Sample Results - Detected Compounds
Davids Island Underground Storage Tank Closure Report

Sample ID Sample Date Units	NYSDEC RRSCOs mg/Kg	40S5 10/9/2008 mg/Kg	40S6 10/9/2008 mg/Kg	40P1 10/9/2008 mg/Kg	40P2 10/9/2008 mg/Kg	40P12 Duplicate of 40P2	40P3 10/9/2008 mg/Kg	40P4 10/9/2008 mg/Kg
Inorganics								
Lead	400	239	116	82.9	101	115	164	45.9
Petroleum Hydrocarbons								
Gasoline Range Organics	NC	16.6	21.1	U	U	16.8	50.7	U

Notes:
NYSDEC RRSCOs - New York State Department of Environmental Conservation Restricted Residential Soil Cleanup Objectives, Effective December 14, 2006
Values shaded and in **BOLD** exceed comparison criteria
* Value corresponds to total xylenes
J = Estimated
NC = No criteria
U = Non-detect
STARS = Spill Technology and Remediation Series

APPENDIX A
Soil Boring Logs

BORING NUMBER:

FIELD BORING LOG SHEET

PROJECT: Davis Island
PROJECT NO.:
LOCATION: UST - SB 01
GEOLOGIST: Chris Cicerle
DRILLER: Zebron
DRILLING/SAMPLING METHOD: Geoprobe

DATE STARTED: 07/09/07
DATE COMPLETED: 7/9/07
GROUDWATER DEPTH: 4.5 ft bgs
GROUND ELEVATION:
X COORDINATE:
Y COORDINATE:
DATUM:

Sample ID	Depth (feet)	BLOWS per 6"	Recovery(ft)	USCS	Description	Time	Date	FID/PID (ppm)	Comments
	0-4		3	-	0-1.5: Concrete	8:10	7/9/07	1.2	UST SB01-02-03
				SM	1.5-3: Black f-m SAND, some Silt, trace f-m. Gravel, moist				
				GP	3-4: Ash Material, f-m Gravel sized, dry, loose.				
	4-8		3	GP	4-5: Same As Above, wet at 4.5 ft.	8:15	7/9/07	0.0	
				SP	5-8: Brown f-m SAND, trace Silt, very loose, moist.				
	8-12		3	SP	8-10: Same As Above	8:20	7/9/07	0.0	UST SB01-10-11
				SP	10-10.5 Black f-m SAND, trace Silt, trace f-m Gravel, moist				
				SM	10.5-12: Brown fine SAND & SILT, some f-m Gravel, wet, dense.				

NOTES: Boring terminated at 12 ft. bgs.

PAGE 1 OF 1

BORING NUMBER:

FIELD BORING LOG SHEET

PROJECT: Davids Island
PROJECT NO.:
LOCATION: UST-02
GEOLOGIST: Chris Ciccarelli
DRILLER: Zebra
DRILLING/SAMPLING METHOD: Geoprobe

DATE STARTED: 7/9/07
DATE COMPLETED: 7/9/07
GROUDWATER DEPTH: 7.5 ft bgs
GROUND ELEVATION:
X COORDINATE:
Y COORDINATE:
DATUM:

Sample ID	Depth (feet)	BLOWS per 6"	Recovery(ft)	USCS	Description	Time	Date	FID/PID (ppm)	Comments
	0-4		3	-	0-1.5: Concrete	8:25	7/09/07	0.0	
				SM	1.5-2.5: Black f-m SAND, some Silt, moist, loose				
				SP	2.5-4: Brown f-m SAND, trace Silt, moist, very loose				
	4-8		3	SP	4-8: Same As Above, wet at 7.5 ft.	8:30	7/9/07	0.0	
	8-12		4	SP	8-9: Same As Above.	8:35	7/9/07	0.0	USTSB02-08-09
				CL-ML	9-9.75: Green organic CLAY & SILT, wet, plastic				
				SP	9.75-12: Brown f-m SAND, trace Silt, very loose, wet.				

NOTES: Boring terminated at 12 ft bgs.

BORING NUMBER:

FIELD BORING LOG SHEET

PROJECT: Davids Island
PROJECT NO.:
LOCATION: UST-03
GEOLOGIST: Chris, Cicely
DRILLER: Zebra
DRILLING/SAMPLING METHOD: Geoprobe

DATE STARTED: 7/9/07
DATE COMPLETED: 7/9/07
GROUDWATER DEPTH: 8 ft bgs
GROUND ELEVATION:
X COORDINATE:
Y COORDINATE:
DATUM:

Sample ID	Depth (feet)	BLOWS per 6"	Recovery(ft)	USCS	Description	Time	Date	FID/PID (ppm)	Comments
	0-4		3	SM	0-3: Black f-m SAND, some Silt, trace f-c Gravel, Ash + Coal Material Present, moist.	8:40	7/9/07	0.0	
				—	3-4: Ash + Brick Material, moist.				
	4-8		3	SM	4-6: Black f-m SAND, some Silt, trace f-c Gravel, Ash + Coal Material Present, moist	8:45	7/9/07	0.0	
				—	6-6.5: Ash material				
				—	6.5-7: Brick fragments, coal fragments				
				SP	7-8: Brown f-m SAND, trace Silt, moist. loose.				
	8-12		3	SP	8-10: Same as Above, some brick + coal fragments, wet.	8:57	7/9/07	0.0	UST SB 03-08-09
				SM	10-12: Brown fine SAND + SILT, some f-c Gravel, wet.				

NOTES: Boring terminated at 12 ft. bgs.

PAGE | OF |

BORING NUMBER:

FIELD BORING LOG SHEET

PROJECT: Davids Island
PROJECT NO.:
LOCATION: UST-04
GEOLOGIST: Chris Cicerale
DRILLER: Zebra
DRILLING/SAMPLING METHOD: Geoprobe

DATE STARTED: 7/9/07
DATE COMPLETED: 7/9/07
GROUDWATER DEPTH: 5 ft bgs
GROUND ELEVATION:
X COORDINATE:
Y COORDINATE:
DATUM:

Sample ID	Depth (feet)	BLOWS per 6"	Recovery(ft)	USCS	Description	Time	Date	FID/PID (ppm)	Comments
	0-4		3	—	0-0.5: Concrete	9:00	7/9/07	0.0	
				SM	0.5-2: Black f-m SAND, some silt, trace fine Gravel, moist.				
				SP	2-4: Brown f-m SAND, trace silt, dry, very loose.				
	4-8		2.5	SP	4-5: Same As Above				
				CL-ML	5-6: Grey CLAY & SILT, wet.	9:05	7/9/07	0.0	
				SP	6-7: Brown f-m SAND, some f-C Gravel, dry, loose				
				SP	7-8: Brown f-m SAND, moist, very loose				
	8-10		1	SP	8-10: Same As Above.				
				CC	refusal at ~10 ft. Weathered Bedrock	9:10	7/9/07		UST SB04-08-09

NOTES: Refusal at 10 ft. bgs

PAGE 1 OF 1

BORING NUMBER:

FIELD BORING LOG SHEET

PROJECT: Daniels Island
PROJECT NO.:
LOCATION: UST-05
GEOLOGIST: Chris Cicero
DRILLER: Zebra
DRILLING/SAMPLING METHOD: Geoprobe

DATE STARTED: 7/9/07
DATE COMPLETED: 7/9/07
GROUDWATER DEPTH: 9.5 ft bgs
GROUND ELEVATION:
X COORDINATE:
Y COORDINATE:
DATUM:

Sample ID	Depth (feet)	BLOWS per 6"	Recovery(ft)	USCS	Description	Time	Date	FID/PID (ppm)	Comments
	0-4		2	SM	0-2: Black f-m SAND, some Silt, trace f- Gravel or Brick, Dry, loose	9:15	7/9/07	0.0	
				SW	2-4: Brown f-c SAND, trace Silt, dry, very loose.				
	4-8		3	SP	4-6: Brown f-m SAND, trace Silt, dry, loose	9:20	7/9/07	0.0	
				ML	6-7: Brown SILT, trace f. SAND, moist.				
				SP	7-8: Brown f-m SAND, trace Silt, dry, loose.				
	8-12		3	SP	8-9.5: Same as Above	9:25	7/9/07	0.0	UST SB05-09-10
				SC	9.5-10.5: Grey fine SAND, some Clay, ~~wet~~ wet.				
				SW	10.5-12: Brown f-c SAND, wet, loose.				

NOTES: Boring terminated at 12 ft. bgs.

PAGE 1 OF 1

APPENDIX B
Photographs

Photo 1 - View of UST A Looking South

Photo 2 - View of Former Dispenser Area for UST A

Photo 3 - Excavation of UST A

Photo 4 – View of UST A Cleanout

Photo 5 - View of UST A Cleanout

Photo 6 - View of UST A Cleanout

Photo 7 - Removal of UST A

Photo 8 - Removal of UST A

Photo 9 - Removal of UST A

Photo 10 - Removal of UST A

Photo 11 - Removal of UST A

Photo 12 - View of UST A

Photo 13 - View of UST B Bottom (South Side)

Photo 14 - View of UST B Bottom (North Side)

Photo 15 - View of UST A Excavation Looking South

Photo 16 - View of UST A Excavation Looking North

Photo 17 - View of UST A Excavation East Wall

Photo 18 - View of UST A Excavation West Wall

Photo 19 – Excavation of UST A Piping

Photo 20 – View of UST A Piping Looking South

Photo 21- View of UST A Piping Looking North

Photo 22 - UST A Piping Excavation

Photo 23 – Typical UST A Piping Joint

Photo 24 - Laying Plastic in UST A Excavation

Photo 25 - Backfilling UST A Excavation

Photo 26 - Backfilling UST A Excavation

Photo 27 – View of UST A Excavation Restored

Photo 28 – Shearing UST A for Disposal

Photo 29 - Shearing UST A for Disposal

Photo 30 – UST B Prior to Removal

Photo 31 - View of UST B

Photo 32 - View of Product in UST B

Photo 33 - View of UST B Cleaned Looking North

Photo 34 - View of UST B Cleaned Looking South

Photo 35 - UST B Removal and Scale Cleaning

Photo 36 - UST B Removal and Scale Cleaning

Photo 37 - UST B Removal and Scale Cleaning

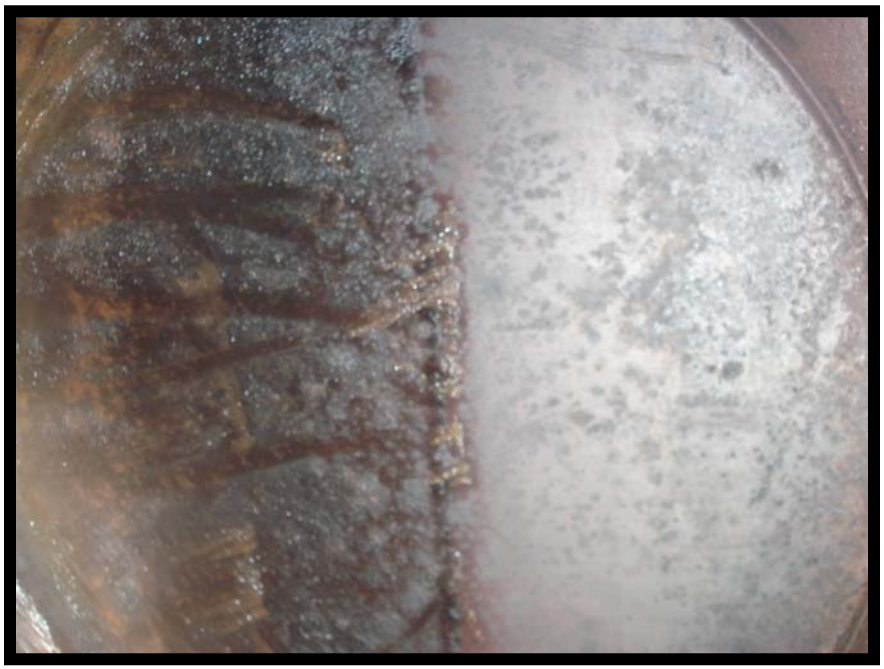


Photo 38 - View of Interior North Side of UST B

Photo 39 - View of Interior South Side of UST B

Photo 40- Hole Present in UST B after Scale Cleaning

Photo 41- View of UST B Hole Close-up

Photo 42 - View of UST B Tank Vault

Photo 43 - Shearing of UST B for Disposal

APPENDIX C
Laboratory Analytical Data

CHAIN OF CUSTODY

208 Route 109, Farmingdale, NY 11735
(Tel.) 631-249-1456 (Fax) 631-249-8344

08-10148
0810148
Rec'vd Date: 10/10/08 08 3:25

Client Information

Company Name: Tetra Tech EC, Inc
Address: 1000 The American Rd
City: Morris Plains State: NJ Zip: 07950
Project Contact: Christopher De Carlo
Phone #: (973) 630-8000 Fax #:
E-mail: christopher.decarlo@ttec.com

Project Information

Project Name: Davids Island
Street:
City: New Rochelle State: NY Zip: 10801
Project #:
Sampler's Name: Christopher De Carlo
Sampler's Signature:

Sample Collection / Sample Containers

LAB SAMPLE # (LAB USE ONLY)	Sample ID	Sample Type	Matrix Code	Date	Time	Wt/Vol (Air Volume in Liters)	Total # of bottles	Number of Each Preserved Bottle: NONE	HCl	NaOH	HNO3	H2SO4	NaHSO4	MeOH	OTHER
	G1B1 DRO	soil		10/9/08	1020		2	2							
	G1B2 DRO				1025										
	4051 GRO				1155										
	40B1 GRO				1200										
	4052 GRO				1205										
	4053 GRO				1210										
	40B2 GRO				1215										
	4054 GRO				1220										
	4055 GRO				1225										
	4056 GRO			10/9/08	1230										

Analytical Information

Analytical Information	STARS VOC	STARS SVOC	TPH	Lead	48 Hr TAT
	✓	✓	✓		✓
	✓	✓	✓		✓
	✓	✓	✓	✓	
	✓	✓	✓	✓	
	✓	✓	✓	✓	
	✓	✓	✓	✓	
	✓	✓	✓	✓	
	✓	✓	✓	✓	
	✓	✓	✓	✓	
	✓	✓	✓	✓	

☐8260 ☐624 ☐8021 ☐602 ☐BTEX ☐MTBE ☐TBA ☐NAPH ☐TCL ☐STARS ☐TCLP
☐8270 ☐625 ☐TCL ☐STARS ☐AE ☐BN ☐PAH ☐TCLP
☐TIC: ☐+10 ☐+15 ☐+25 ☐+99
☐PEST ☐PCB ☐HERB ☐TCLP ☐VPH ☐EPH ☐DRO ☐GRO ☐8100 ☐NIOSH1500
☐METALS ☐TOTAL ☐TAL ☐RCRA ☐TCLP ☐Mercury ☐Hardness ☐Lead
☐BOD ☐CN ☐TS ☐1664 ☐O&G ☐TPHC ☐FP ☐pH ☐REACT ☐RIC

Matrix Codes

L - Liquid
S - Soil
A - Air
OL - Oil
W - Wipe
PC - Paint Chips
SL - Sludge
SD - Solid
DW- Drinking Water
DISS - Dissolved

Sample Type

G=Grab
C=Composite
B=Blank

(LAB USE ONLY)

Turnaround Time (Business Days)

(LAB USE ONLY)
TAT Approved By / Date:

- ☐ Standard 7-10 Business Days
- ☐ 5 Day *RUSH*
- ☐ 4 Day *RUSH*
- ☐ 3 Day *RUSH*
- ☐ 2 Day *RUSH*
- ☐ 1 Day *RUSH*

Data Deliverable Information

- ☐ Results Only (Level-1)
- ☐ Results plus Misc. QC (Level-2)
- ☐ Results plus ALL QC (Level-3)
- ☐ MA QC Package (LevelMA)
- ☐ NJ QC Package (Level3NJ)
- ☐ CLP Category A (Level-2)
- ☐ CLP Category B (Level-4)
- ☐ ASP QC Package (Level-4)
- ☐ Other _____
- ☐ EDD Format_____

(EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDES, Ascii, TAGM, OENJ)

Comments / Remarks

ETL COC Review Check List (LAB USE ONLY)

- ☐ Task Log In and Initial Review Init: _____ Date/Time: _____
- ☐ Final Review and Approval Init: _____ Date/Time: _____
- ☑ Complete and Invoiced Init: _____ Date/Time: _____

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

	Relinquished by Sampler:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1		10/10/08 730	1	2	10/10/08 845	J Fernandino
3	Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
		3	3	4	4	4
5	Relinquished by:	Date / Time:	Received By:	COOLER INFORMATION		
		5	5	Cooler Temp:_____	pH:_____	☐ On Ice ☐ Sample Receipt Discrepancy(attach information)

CHAIN OF CUSTODY

208 Route 109, Farmingdale, NY 11735
(Tel.) 631-249-1456 (Fax) 631-249-8344

08-10148
0810148

Rec'vd Date: 10/10/08 08 3:25

Client Information

Company Name: Tetra Tech EC, Inc
Address: 1000 The American Rd
City: Morris Plains State: NJ Zip: 07950
Project Contact: Christopher De Carlo
Phone #: (973) 630-8000 Fax #:
E-mail: Christopher.decarlo@ttec.com

Project Information

Project Name: Davids Island
Street:
City: New Rochell State: NY Zip: 10801
Project #:
Sampler's Name: Christopher De Carlo
Sampler's Signature:

Analytical Information

□8260 □624 □8021 □602 □BTEX □MTBE □TBA □NAPH □TCL □STARS □TCLP
□8270 □625 □TCL □STARS □AE □BN □PAH □TCLP
□TIC: □+10 □+15 □+25 □+99
□PEST □PCB □HERB □TCLP □VPH □EPH □DRO □GRO □8100 □NIOSH1500
□METALS □TOTAL □TAL □RCRA □TCLP □Mercury □Hardness □Lead
□BOD □CN □TS □1664 □O&G □TPHC □FP □pH □REACT □RIC
STARS VOC
STARS SVOC
TPH
Lead

Matrix Codes

L - Liquid
S - Soil
A - Air
OL - Oil
W - Wipe
PC - Paint Chips
SL - Sludge
SD - Solid
DW- Drinking Water
DISS - Dissolved

Sample Type

G=Grab
C=Composite
B=Blank

Sample Information / Sample Collection / Sample Containers

LAB SAMPLE # (LAB USE ONLY)	Sample ID	Sample Type	Matrix Code	Date	Time	Wt/Vol (Air Volume in Liters)	Total # of bottles	Number of Each Preserved Bottle: NONE	HCl	NaOH	HNO3	H2SO4	NaHSO4	MeOH	OTHER
	40A1 GRO	Soil		10/9/08	1420		2	2							
	40P2 GRO				1425										
	40P3 GRO				1430										
	40PH GRO				1435										
	40P12 GRO				1455										

Turnaround Time (Business Days)

(LAB USE ONLY)
TAT Approved By / Date:

- Standard 7-10 Business Days
- 5 Day *RUSH*
- 4 Day *RUSH*
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*

Data Deliverable Information

- Results Only (Level-1)
- Results plus Misc. QC (Level-2)
- Results plus ALL QC (Level-3)
- MA QC Package (LevelMA)
- NJ QC Package (Level3NJ)
- CLP Category A (Level-2)
- CLP Category B (Level-4)
- ASP QC Package (Level-4)
- Other _____
- EDD Format_____

(EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDES, Ascii, TAGM, OENJ)

Comments / Remarks

ETL COC Review Check List (LAB USE ONLY)

- ☐ Task Log In and Initial Review Init: Date/Time:
- ☐ Final Review and Approval Init: Date/Time:
- ☐ Complete and Invoiced Init: Date/Time:

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

	Relinquished by Sampler:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1		10/10/08 7:30	1	2	10/10/08 8:45	2 Ferrandino
3	Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
		3	3	4	4	4
5	Relinquished by:	Date / Time:	Received By:	COOLER INFORMATION		
		5	5	Cooler Temp:_____	pH:_____	☐ On Ice ☐ Sample Receipt Discrepancy(attach information)

UST01

Sample Number	Sample Date	Top Depth (ft)	Bottom Depth (ft)
USTSB01-02-03	7/9/2007	2	3

		Result	MDL	Qual	Criteria
% Solids	%	89.7			
1,2,4-Trimethylbenzene	ug/Kg		1.04	U	52000
1,3,5-Trimethylbenzene	ug/Kg		0.91	U	52000
Acenaphthene	ug/Kg		19.1	U	100000
Acenaphthylene	ug/Kg	37.5	23.1	J	100000
Anthracene	ug/Kg	52.7	30.4	J	100000
Benzene	ug/Kg		0.56	U	4800
Benzo(a)anthracene	ug/Kg	363	33.9	J	1000
Benzo(a)pyrene	ug/Kg	383	23.5	J	1000
Benzo(b)fluoranthene	ug/Kg	404	31.5	J	1000
Benzo(g,h,i)perylene	ug/Kg	331	36.6	J	100000
Benzo(k)fluoranthene	ug/Kg	341	42.6	J	3900
Chrysene	ug/Kg	464	35	J	3900
Dibenzo(a,h)anthracene	ug/Kg		34.9	U	330
Ethylbenzene	ug/Kg		0.48	U	41000
Fluoranthene	ug/Kg	611	32.4		100000
Fluorene	ug/Kg		26.2	U	100000
Indeno(1,2,3-cd)pyrene	ug/Kg	287	35	J	500
Isopropylbenzene	ug/Kg		0.7	U	
Lead	mg/Kg	181	0.25		400
m,p-xylene	ug/Kg		1.11	U	100000
Methyl tert-Butyl Ether	ug/Kg		0.56	U	100000
Naphthalene	ug/Kg	72.7	24.9	J	100000
Naphthalene	ug/Kg	72.7	24.9	J	100000
Naphthalene	ug/Kg		1.35	U	100000
Naphthalene	ug/Kg		1.35	U	100000
n-Butylbenzene	ug/Kg		0.99	U	100000

n-Propylbenzene	ug/Kg		0.8	U	100000
o-xylene	ug/Kg		0.83	U	100000
Phenanthrene	ug/Kg	339	27.2	J	100000
p-Isopropyltoluene	ug/Kg		0.88	U	
Pyrene	ug/Kg	555	34.2	J	100000
sec-Butylbenzene	ug/Kg		0.92	U	100000
tert-Butylbenzene	ug/Kg		1.07	U	100000
Toluene	ug/Kg		0.42	U	100000
Total carc-PAHs	mg/kg	2.242			
Total noncarc-PAHs	mg/kg	1.9989			
Total PAHs	mg/kg	4.2409			
Xylenes (total)	ug/Kg		0.98	U	100000

Sample Number	*Sample Date*	*Top Depth (ft)*	*Bottom Depth (ft)*
USTSB01-10-11	7/9/2007	10	11

		Result	*MDL*	*Qual*	*Criteria*
% Solids	%	90.6			
1,2,4-Trimethylbenzene	ug/Kg		1.03	U	52000
1,3,5-Trimethylbenzene	ug/Kg		0.9	U	52000
Acenaphthene	ug/Kg		18.9	U	100000
Acenaphthylene	ug/Kg		22.8	U	100000
Anthracene	ug/Kg		30.1	U	100000
Benzene	ug/Kg		0.55	U	4800
Benzo(a)anthracene	ug/Kg		33.6	U	1000
Benzo(a)pyrene	ug/Kg		23.3	U	1000
Benzo(b)fluoranthene	ug/Kg		31.2	U	1000
Benzo(g,h,i)perylene	ug/Kg		36.2	U	100000
Benzo(k)fluoranthene	ug/Kg		42.2	U	3900
Chrysene	ug/Kg		34.7	U	3900
Dibenzo(a,h)anthracene	ug/Kg		34.5	U	330
Ethylbenzene	ug/Kg		0.47	U	41000
Fluoranthene	ug/Kg		32.1	U	100000
Fluorene	ug/Kg		25.9	U	100000

Indeno(1,2,3-cd)pyrene	ug/Kg		34.7	U	500
Isopropylbenzene	ug/Kg		0.69	U	
Lead	mg/Kg	2.75	0.26		400
m,p-xylene	ug/Kg		1.1	U	100000
Methyl tert-Butyl Ether	ug/Kg		0.55	U	100000
Naphthalene	ug/Kg		24.6	U	100000
Naphthalene	ug/Kg		24.6	U	100000
Naphthalene	ug/Kg		1.34	U	100000
Naphthalene	ug/Kg		1.34	U	100000
n-Butylbenzene	ug/Kg		0.98	U	100000
n-Propylbenzene	ug/Kg		0.79	U	100000
o-xylene	ug/Kg		0.82	U	100000
Phenanthrene	ug/Kg		26.9	U	100000
p-Isopropyltoluene	ug/Kg		0.87	U	
Pyrene	ug/Kg		33.9	U	100000
sec-Butylbenzene	ug/Kg		0.91	U	100000
tert-Butylbenzene	ug/Kg		1.06	U	100000
Toluene	ug/Kg		0.42	U	100000
Total carc-PAHs	mg/kg	0		U	
Total noncarc-PAHs	mg/kg	0		U	
Total PAHs	mg/kg	0		U	
Xylenes (total)	ug/Kg		0.97	U	100000

UST02

Sample Number	*Sample Date*	*Top Depth (ft)*	*Bottom Depth (ft)*		
USTSB02-08-09	7/9/2007	8	9		
		Result	*MDL*	*Qual*	*Criteria*
% Solids	%	92.2			
1,2,4-Trimethylbenzene	ug/Kg		1.02	U	52000
1,3,5-Trimethylbenzene	ug/Kg		0.89	U	52000
Acenaphthene	ug/Kg		18.5	U	100000
Acenaphthylene	ug/Kg		22.5	U	100000

Anthracene	ug/Kg	31.9	29.6	J	100000
Benzene	ug/Kg		0.54	U	4800
Benzo(a)anthracene	ug/Kg	72.4	33	J	1000
Benzo(a)pyrene	ug/Kg	61.2	22.9	J	1000
Benzo(b)fluoranthene	ug/Kg	60.5	30.7	J	1000
Benzo(g,h,i)perylene	ug/Kg		35.6	U	100000
Benzo(k)fluoranthene	ug/Kg	62.1	41.4	J	3900
Chrysene	ug/Kg	83	34.1	J	3900
Dibenzo(a,h)anthracene	ug/Kg		33.9	U	330
Ethylbenzene	ug/Kg		0.46	U	41000
Fluoranthene	ug/Kg	201	31.6	J	100000
Fluorene	ug/Kg		25.5	U	100000
Indeno(1,2,3-cd)pyrene	ug/Kg		34.1	U	500
Isopropylbenzene	ug/Kg		0.68	U	
Lead	mg/Kg	1.78	0.25		400
m,p-xylene	ug/Kg		1.08	U	100000
Methyl tert-Butyl Ether	ug/Kg		0.54	U	100000
Naphthalene	ug/Kg		1.32	U	100000
Naphthalene	ug/Kg		1.32	U	100000
Naphthalene	ug/Kg		24.2	U	100000
Naphthalene	ug/Kg		24.2	U	100000
n-Butylbenzene	ug/Kg		0.96	U	100000
n-Propylbenzene	ug/Kg		0.78	U	100000
o-xylene	ug/Kg		0.81	U	100000
Phenanthrene	ug/Kg	137	26.5	J	100000
p-Isopropyltoluene	ug/Kg		0.85	U	
Pyrene	ug/Kg	131	33.3	J	100000
sec-Butylbenzene	ug/Kg		0.9	U	100000
tert-Butylbenzene	ug/Kg		1.04	U	100000
Toluene	ug/Kg		0.41	U	100000
Total carc-PAHs	mg/kg	0.3392			

Total noncarc-PAHs	mg/kg	0.5009			
Total PAHs	mg/kg	0.8401			
Xylenes (total)	ug/Kg		0.95	U	100000

UST03

Sample Number	*Sample Date*	*Top Depth (ft)*	*Bottom Depth (ft)*		
USTSB03-08-09	7/9/2007	8	9		
		Result	*MDL*	*Qual*	*Criteria*
% Solids	%	80.4			
1,2,4-Trimethylbenzene	ug/Kg		1.17	U	52000
1,3,5-Trimethylbenzene	ug/Kg		1.02	U	52000
Acenaphthene	ug/Kg	164	21.3	J	100000
Acenaphthylene	ug/Kg	89.7	25.7	J	100000
Anthracene	ug/Kg	571	34	J	100000
Benzene	ug/Kg		0.62	U	4800
Benzo(a)anthracene	ug/Kg	1040	37.8		1000
Benzo(a)pyrene	ug/Kg	848	26.2		1000
Benzo(b)fluoranthene	ug/Kg	646	35.2		1000
Benzo(g,h,i)perylene	ug/Kg	465	40.8	J	100000
Benzo(k)fluoranthene	ug/Kg	782	47.5		3900
Chrysene	ug/Kg	1030	39.1		3900
Dibenzo(a,h)anthracene	ug/Kg	208	38.9	J	330
Ethylbenzene	ug/Kg		0.53	U	41000
Fluoranthene	ug/Kg	2560	36.2		100000
Fluorene	ug/Kg	251	29.2	J	100000
Indeno(1,2,3-cd)pyrene	ug/Kg	405	39.1	J	500
Isopropylbenzene	ug/Kg		0.78	U	
Lead	mg/Kg	108	0.29		400
m,p-xylene	ug/Kg		1.24	U	100000
Methyl tert-Butyl Ether	ug/Kg		0.62	U	100000
Naphthalene	ug/Kg	46.1	27.7	J	100000
Naphthalene	ug/Kg		1.51	U	100000

Naphthalene	ug/Kg		1.51	U	100000
Naphthalene	ug/Kg	46.1	27.7	J	100000
n-Butylbenzene	ug/Kg		1.1	U	100000
n-Propylbenzene	ug/Kg		0.89	U	100000
o-xylene	ug/Kg		0.93	U	100000
Phenanthrene	ug/Kg	2240	30.3		100000
p-Isopropyltoluene	ug/Kg		0.98	U	
Pyrene	ug/Kg	2100	38.2		100000
sec-Butylbenzene	ug/Kg		1.03	U	100000
tert-Butylbenzene	ug/Kg		1.19	U	100000
Toluene	ug/Kg		0.47	U	100000
Total carc-PAHs	mg/kg	4.959			
Total noncarc-PAHs	mg/kg	8.4868			
Total PAHs	mg/kg	13.4458			
Xylenes (total)	ug/Kg		1.09	U	100000

UST04

Sample Number	*Sample Date*	*Top Depth (ft)*	*Bottom Depth (ft)*		
USTSB04-08-09	7/9/2007	8	9		
		Result	*MDL*	*Qual*	*Criteria*
% Solids	%	91.8			
1,2,4-Trimethylbenzene	ug/Kg		1.02	U	52000
1,3,5-Trimethylbenzene	ug/Kg		0.89	U	52000
Acenaphthene	ug/Kg		18.6	U	100000
Acenaphthylene	ug/Kg	34.7	22.5	J	100000
Anthracene	ug/Kg	80.3	29.7	J	100000
Benzene	ug/Kg		0.55	U	4800
Benzo(a)anthracene	ug/Kg	325	33.1	J	1000
Benzo(a)pyrene	ug/Kg	283	23	J	1000
Benzo(b)fluoranthene	ug/Kg	280	30.8	J	1000
Benzo(g,h,i)perylene	ug/Kg	216	35.7	J	100000
Benzo(k)fluoranthene	ug/Kg	284	41.6	J	3900

Chrysene	ug/Kg	355	34.2	J	3900
Dibenzo(a,h)anthracene	ug/Kg	78.3	34.1	J	330
Ethylbenzene	ug/Kg		0.47	U	41000
Fluoranthene	ug/Kg	737	31.7		100000
Fluorene	ug/Kg		25.6	U	100000
Indeno(1,2,3-cd)pyrene	ug/Kg	200	34.2	J	500
Isopropylbenzene	ug/Kg		0.69	U	
Lead	mg/Kg	133	0.25		400
m,p-xylene	ug/Kg		1.09	U	100000
Methyl tert-Butyl Ether	ug/Kg		0.55	U	100000
Naphthalene	ug/Kg		24.3	U	100000
Naphthalene	ug/Kg		24.3	U	100000
Naphthalene	ug/Kg		1.33	U	100000
Naphthalene	ug/Kg		1.33	U	100000
n-Butylbenzene	ug/Kg		0.97	U	100000
n-Propylbenzene	ug/Kg		0.78	U	100000
o-xylene	ug/Kg		0.82	U	100000
Phenanthrene	ug/Kg	332	26.6	J	100000
p-Isopropyltoluene	ug/Kg		0.86	U	
Pyrene	ug/Kg	546	33.4		100000
sec-Butylbenzene	ug/Kg		0.9	U	100000
tert-Butylbenzene	ug/Kg		1.05	U	100000
Toluene	ug/Kg		0.41	U	100000
Total carc-PAHs	mg/kg	1.8053			
Total noncarc-PAHs	mg/kg	1.946			
Total PAHs	mg/kg	3.7513			
Xylenes (total)	ug/Kg		0.96	U	100000

UST05

Sample Number	Sample Date	Top Depth (ft)	Bottom Depth (ft)			
USTSB05-09-10	7/9/2007	9		10		
			Result	MDL	Qual	Criteria
% Solids		%	82.8			
1,2,4-Trimethylbenzene		ug/Kg		1.14	U	52000
1,3,5-Trimethylbenzene		ug/Kg		0.99	U	52000
Acenaphthene		ug/Kg		20.7	U	100000
Acenaphthylene		ug/Kg		25	U	100000
Anthracene		ug/Kg	46.7	33	J	100000
Benzene		ug/Kg		0.61	U	4800
Benzo(a)anthracene		ug/Kg	87	36.7	J	1000
Benzo(a)pyrene		ug/Kg		25.5	U	1000
Benzo(b)fluoranthene		ug/Kg		34.2	U	1000
Benzo(g,h,i)perylene		ug/Kg		39.6	U	100000
Benzo(k)fluoranthene		ug/Kg		46.1	U	3900
Chrysene		ug/Kg	89.3	37.9	J	3900
Dibenzo(a,h)anthracene		ug/Kg		37.8	U	330
Ethylbenzene		ug/Kg		0.52	U	41000
Fluoranthene		ug/Kg	218	35.1	J	100000
Fluorene		ug/Kg		28.4	U	100000
Indeno(1,2,3-cd)pyrene		ug/Kg		37.9	U	500
Isopropylbenzene		ug/Kg		0.76	U	
Lead		mg/Kg	3.68	0.27		400
m,p-xylene		ug/Kg		1.21	U	100000
Methyl tert-Butyl Ether		ug/Kg		0.61	U	100000
Naphthalene		ug/Kg		26.9	U	100000
Naphthalene		ug/Kg		1.48	U	100000
Naphthalene		ug/Kg		26.9	U	100000
Naphthalene		ug/Kg		1.48	U	100000
n-Butylbenzene		ug/Kg		1.08	U	100000

n-Propylbenzene	ug/Kg		0.87	U	100000
o-xylene	ug/Kg		0.91	U	100000
Phenanthrene	ug/Kg	163	29.5	J	100000
p-Isopropyltoluene	ug/Kg		0.96	U	
Pyrene	ug/Kg	154	37.1	J	100000
sec-Butylbenzene	ug/Kg		1	U	100000
tert-Butylbenzene	ug/Kg		1.16	U	100000
Toluene	ug/Kg		0.46	U	100000
Total carc-PAHs	mg/kg	0.1763			
Total noncarc-PAHs	mg/kg	0.5817			
Total PAHs	mg/kg	0.758			
Xylenes (total)	ug/Kg		1.06	U	100000

Sample Number	*Sample Date*	*Top Depth (ft)*	*Bottom Depth (ft)*
USTSB05-10-11	7/9/2007	10	11

		Result	*MDL*	*Qual*	*Criteria*
% Solids	%	83.3			

UST02

Sample Number	Sample Date
USTHW02-12-16	7/9/2007

		Result	MDL	Qual	Criteria
1,1,1,2-Tetrachloroethane	ug/L		0.68	U	5
1,1,1-Trichloroethane	ug/L		0.72	U	5
1,1,2,2-Tetrachloroethane	ug/L		0.81	U	5
1,1,2-Trichloroethane	ug/L		0.86	U	1
1,1,2-Trichlorotrifluoroethane	ug/L		0.61	U	5
1,1-Dichloroethane	ug/L		0.78	U	5
1,1-Dichloroethene	ug/L		0.78	U	5
1,1-Dichloropropene	ug/L		0.69	U	5
1,2,3-Trichloropropane	ug/L		1.08	U	0.04
1,2,4,5-Tetramethylbenzene	ug/L		0.6	U	5
1,2,4-Trichlorobenzene	ug/L		0.56	U	5
1,2,4-Trichlorobenzene	ug/L		0.56	U	5
1,2,4-Trimethylbenzene	ug/L		0.54	U	5
1,2-Dibromo-3-chloropropane	ug/L		0.64	U	0.04
1,2-Dibromoethane	ug/L		0.71	U	0.0006
1,2-Dichlorobenzene	ug/L		0.64	U	3
1,2-Dichlorobenzene	ug/L		0.64	U	3
1,2-Dichloroethane	ug/L		0.7	U	0.6
1,2-Dichloropropane	ug/L		0.65	U	1
1,3,5-Trimethylbenzene	ug/L		0.56	U	5
1,3-Dichlorobenzene	ug/L		0.63	U	3
1,3-Dichlorobenzene	ug/L		0.63	U	3
1,3-Dichloropropane	ug/L		0.66	U	5
1,4-Dichlorobenzene	ug/L		0.66	U	3
1,4-Dichlorobenzene	ug/L		0.66	U	3
2,2-Dichloropropane	ug/L		0.49	U	5
2-Butanone	ug/L		2.31	U	50

2-Chloroethylvinylether	ug/L	1.29	U	
2-Chlorotoluene	ug/L	0.61	U	5
2-Hexanone	ug/L	2.21	U	50
4-Chlorotoluene	ug/L	0.6	U	5
4-Methyl-2-pentanone	ug/L	2.48	U	
Acetone	ug/L	2.36	U	50
Benzene	ug/L	0.73	U	1
Bromobenzene	ug/L	0.67	U	5
Bromochloromethane	ug/L	0.69	U	5
Bromodichloromethane	ug/L	0.67	U	50
Bromoform	ug/L	0.67	U	50
Bromomethane	ug/L	0.89	U	5
Carbon disulfide	ug/L	0.74	U	60
Carbon tetrachloride	ug/L	0.68	U	5
Chlorobenzene	ug/L	0.7	U	5
Chlorodifluoromethane	ug/L	0.77	U	
Chloroethane	ug/L	1.34	U	5
Chloroform	ug/L	0.76	U	7
Chloromethane	ug/L	0.75	U	5
cis-1,2-Dichloroethene	ug/L	0.68	U	5
cis-1,3-Dichloropropene	ug/L	0.53	U	0.4
Dibromochloromethane	ug/L	0.68	U	50
Dibromomethane	ug/L	0.69	U	5
Dichlorodifluoromethane	ug/L	0.7	U	5
Diethyl ether	ug/L	0.76	U	
Ethylbenzene	ug/L	0.7	U	5
Freon 113	ug/L	0.61	U	5
Hexachlorobutadiene	ug/L	0.53	U	0.5
Hexachlorobutadiene	ug/L	0.53	U	0.5
Isopropylbenzene	ug/L	0.64	U	5
m,p-xylene	ug/L	1.15	U	5

Methyl tert-Butyl Ether	ug/L	0.74	U	10
Methylene chloride	ug/L	0.79	U	5
Naphthalene	ug/L	0.62	U	10
Naphthalene	ug/L	0.62	U	10
n-Butylbenzene	ug/L	0.58	U	5
n-Propylbenzene	ug/L	0.64	U	5
o-xylene	ug/L	0.68	U	5
p-Diethylbenzene	ug/L	0.58	U	
p-Ethyltoluene	ug/L	0.59	U	
p-Isopropyltoluene	ug/L	0.54	U	5
sec-Butylbenzene	ug/L	0.58	U	5
Styrene	ug/L	0.6	U	5
tert-Butylbenzene	ug/L	0.56	U	5
Tetrachloroethene	ug/L	0.63	U	5
Toluene	ug/L	0.55	U	5
trans-1,2-Dichloroethene	ug/L	0.67	U	5
trans-1,3-Dichloropropene	ug/L	0.64	U	0.4
Trichloroethene	ug/L	0.69	U	5
Trichlorofluoromethane	ug/L	0.69	U	5
Vinyl Chloride	ug/L	0.73	U	2

Sample Number ***Sample Date***

USTHW12-12-16 7/9/2007

		Result	***MDL***	***Qual***	***Criteria***
1,1,1,2-Tetrachloroethane	ug/L		0.68	U	5
1,1,1-Trichloroethane	ug/L		0.72	U	5
1,1,2,2-Tetrachloroethane	ug/L		0.81	U	5
1,1,2-Trichloroethane	ug/L		0.86	U	1
1,1,2-Trichlorotrifluoroethane	ug/L		0.61	U	5
1,1-Dichloroethane	ug/L		0.78	U	5
1,1-Dichloroethene	ug/L		0.78	U	5
1,1-Dichloropropene	ug/L		0.69	U	5
1,2,3-Trichloropropane	ug/L		1.08	U	0.04

1,2,4,5-Tetramethylbenzene	ug/L	0.6	U	5
1,2,4-Trichlorobenzene	ug/L	0.56	U	5
1,2,4-Trichlorobenzene	ug/L	0.56	U	5
1,2,4-Trimethylbenzene	ug/L	0.54	U	5
1,2-Dibromo-3-chloropropane	ug/L	0.64	U	0.04
1,2-Dibromoethane	ug/L	0.71	U	0.0006
1,2-Dichlorobenzene	ug/L	0.64	U	3
1,2-Dichlorobenzene	ug/L	0.64	U	3
1,2-Dichloroethane	ug/L	0.7	U	0.6
1,2-Dichloropropane	ug/L	0.65	U	1
1,3,5-Trimethylbenzene	ug/L	0.56	U	5
1,3-Dichlorobenzene	ug/L	0.63	U	3
1,3-Dichlorobenzene	ug/L	0.63	U	3
1,3-Dichloropropane	ug/L	0.66	U	5
1,4-Dichlorobenzene	ug/L	0.66	U	3
1,4-Dichlorobenzene	ug/L	0.66	U	3
2,2-Dichloropropane	ug/L	0.49	U	5
2-Butanone	ug/L	2.31	U	50
2-Chloroethylvinylether	ug/L	1.29	U	
2-Chlorotoluene	ug/L	0.61	U	5
2-Hexanone	ug/L	2.21	U	50
4-Chlorotoluene	ug/L	0.6	U	5
4-Methyl-2-pentanone	ug/L	2.48	U	
Acetone	ug/L	2.36	U	50
Benzene	ug/L	0.73	U	1
Bromobenzene	ug/L	0.67	U	5
Bromochloromethane	ug/L	0.69	U	5
Bromodichloromethane	ug/L	0.67	U	50
Bromoform	ug/L	0.67	U	50
Bromomethane	ug/L	0.89	U	5
Carbon disulfide	ug/L	0.74	U	60

Carbon tetrachloride	ug/L	0.68	U	5
Chlorobenzene	ug/L	0.7	U	5
Chlorodifluoromethane	ug/L	0.77	U	
Chloroethane	ug/L	1.34	U	5
Chloroform	ug/L	0.76	U	7
Chloromethane	ug/L	0.75	U	5
cis-1,2-Dichloroethene	ug/L	0.68	U	5
cis-1,3-Dichloropropene	ug/L	0.53	U	0.4
Dibromochloromethane	ug/L	0.68	U	50
Dibromomethane	ug/L	0.69	U	5
Dichlorodifluoromethane	ug/L	0.7	U	5
Diethyl ether	ug/L	0.76	U	
Ethylbenzene	ug/L	0.7	U	5
Freon 113	ug/L	0.61	U	5
Hexachlorobutadiene	ug/L	0.53	U	0.5
Hexachlorobutadiene	ug/L	0.53	U	0.5
Isopropylbenzene	ug/L	0.64	U	5
m,p-xylene	ug/L	1.15	U	5
Methyl tert-Butyl Ether	ug/L	0.74	U	10
Methylene chloride	ug/L	0.79	U	5
Naphthalene	ug/L	0.62	U	10
Naphthalene	ug/L	0.62	U	10
n-Butylbenzene	ug/L	0.58	U	5
n-Propylbenzene	ug/L	0.64	U	5
o-xylene	ug/L	0.68	U	5
p-Diethylbenzene	ug/L	0.58	U	
p-Ethyltoluene	ug/L	0.59	U	
p-Isopropyltoluene	ug/L	0.54	U	5
sec-Butylbenzene	ug/L	0.58	U	5
Styrene	ug/L	0.6	U	5
tert-Butylbenzene	ug/L	0.56	U	5

Tetrachloroethene	ug/L	0.63	U	5
Toluene	ug/L	0.55	U	5
trans-1,2-Dichloroethene	ug/L	0.67	U	5
trans-1,3-Dichloropropene	ug/L	0.64	U	0.4
Trichloroethene	ug/L	0.69	U	5
Trichlorofluoromethane	ug/L	0.69	U	5
Vinyl Chloride	ug/L	0.73	U	2

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10/22/2008

Laboratory Identifier: 0810148
Received: 10/10/2008 08:25
Sampled by: Christopher DeCarlo

Client: Tetra Tech ECI
1000 The American Road
Morris Plains,
NJ 07950

Project: David's Island
New Rochelle,
NY

Manager: Lee Haymon

Respectfully submitted,

Technical Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
NH Cert. # 252592-BA
PA Cert. #002

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-1

Client Sample ID: 61B1
Matrix: Soil
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/13/2008

Collected: 10/09/2008 10:20
% Solid: 82.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2759-7028	3.16	3.16	ug/Kg	U
71-43-2	Benzene	B2759-7028	3.22	3.22	ug/Kg	U
108-88-3	Toluene	B2759-7028	2.92	**12.9**	ug/Kg	J
100-41-4	Ethylbenzene	B2759-7028	3.16	**15.4**	ug/Kg	J
108-38-3	m,p-xylene	B2759-7028	5.47	**80.8**	ug/Kg	
95-47-6	o-xylene	B2759-7028	2.37	**78.2**	ug/Kg	
1330-20-7	Xylenes(Total)	B2759-7028	5.47	**159**	ug/Kg	
98-82-8	Isopropylbenzene	B2759-7028	2.68	**14.6**	ug/Kg	J
103-65-1	n-Propylbenzene	B2759-7028	2.80	**21.5**	ug/Kg	J
108-67-8	1,3,5-Trimethylbenzene	B2759-7028	2.68	**178**	ug/Kg	
98-06-6	tert-Butylbenzene	B2759-7028	3.22	**3.92**	ug/Kg	J
95-63-6	1,2,4-Trimethylbenzene	B2759-7028	2.25	**202**	ug/Kg	
135-98-8	sec-Butylbenzene	B2759-7028	2.74	**30.0**	ug/Kg	J
99-87-6	p-Isopropyltoluene	B2759-7028	2.86	**29.0**	ug/Kg	J
104-51-8	n-Butylbenzene	B2759-7028	2.92	**45.6**	ug/Kg	
91-20-3	Naphthalene	B2759-7028	2.74	**203**	ug/Kg	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2759-7028	92.5 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2759-7028	97.6 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2759-7028	101.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2759-7028	101.0 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-2
Client Sample ID: 61B2
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 10/10/2008

Type: Grab

Collected: 10/09/2008 10:25
% Solid: 80.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-6992	0.65	0.65	ug/Kg	U
71-43-2	Benzene	B2758-6992	0.66	**1.54**	ug/Kg	J
108-88-3	Toluene	B2758-6992	0.60	**19.3**	ug/Kg	
100-41-4	Ethylbenzene	B2758-6992	0.65	**6.70**	ug/Kg	
108-38-3	m,p-xylene	B2758-6992	1.13	**52.4**	ug/Kg	
95-47-6	o-xylene	B2758-6992	0.49	**25.1**	ug/Kg	
1330-20-7	Xylenes(Total)	B2758-6992	1.13	**77.5**	ug/Kg	
98-82-8	Isopropylbenzene	B2758-6992	0.55	**3.21**	ug/Kg	J
103-65-1	n-Propylbenzene	B2758-6992	0.57	**4.55**	ug/Kg	J
108-67-8	1,3,5-Trimethylbenzene	B2758-6992	0.55	**16.2**	ug/Kg	
98-06-6	tert-Butylbenzene	B2758-6992	0.66	0.66	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-6992	0.46	**39.3**	ug/Kg	
135-98-8	sec-Butylbenzene	B2758-6992	0.56	**2.39**	ug/Kg	J
99-87-6	p-Isopropyltoluene	B2758-6992	0.59	**1.96**	ug/Kg	J
104-51-8	n-Butylbenzene	B2758-6992	0.60	**2.21**	ug/Kg	J
91-20-3	Naphthalene	B2758-6992	0.56	**1.92**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-6992	96.9 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-6992	100.0 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-6992	103.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-6992	100.0 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-3

Client Sample ID: 40S1
Matrix: Soil
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/10/2008

Collected: 10/09/2008 11:55
% Solid: 89.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-6993	0.58	0.58	ug/Kg	U
71-43-2	Benzene	B2758-6993	0.59	0.59	ug/Kg	U
108-88-3	Toluene	B2758-6993	0.53	0.53	ug/Kg	U
100-41-4	Ethylbenzene	B2758-6993	0.58	0.58	ug/Kg	U
108-38-3	m,p-xylene	B2758-6993	1.00	1.00	ug/Kg	U
95-47-6	o-xylene	B2758-6993	0.43	0.43	ug/Kg	U
1330-20-7	Xylenes(Total)	B2758-6993	1.00	1.00	ug/Kg	U
98-82-8	Isopropylbenzene	B2758-6993	0.49	0.49	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-6993	0.51	0.51	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-6993	0.49	0.49	ug/Kg	U
98-06-6	tert-Butylbenzene	B2758-6993	0.59	0.59	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-6993	0.41	0.41	ug/Kg	U
135-98-8	sec-Butylbenzene	B2758-6993	0.50	0.50	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-6993	0.52	0.52	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-6993	0.53	0.53	ug/Kg	U
91-20-3	Naphthalene	B2758-6993	0.50	0.50	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-6993	96.0 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-6993	95.6 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-6993	101.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-6993	98.2 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-4

Client Sample ID: 40B1
Matrix: Soil
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/10/2008

Collected: 10/09/2008 12:00
% Solid: 81.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-6994	0.64	0.64	ug/Kg	U
71-43-2	Benzene	B2758-6994	0.65	**4.42**	ug/Kg	J
108-88-3	Toluene	B2758-6994	0.59	**13.6**	ug/Kg	
100-41-4	Ethylbenzene	B2758-6994	0.64	**2.70**	ug/Kg	J
108-38-3	m,p-xylene	B2758-6994	1.11	**10.6**	ug/Kg	J
95-47-6	o-xylene	B2758-6994	0.48	**6.35**	ug/Kg	
1330-20-7	Xylenes(Total)	B2758-6994	1.11	**16.9**	ug/Kg	J
98-82-8	Isopropylbenzene	B2758-6994	0.54	0.54	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-6994	0.57	0.57	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-6994	0.54	**2.74**	ug/Kg	J
98-06-6	tert-Butylbenzene	B2758-6994	0.65	0.65	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-6994	0.46	**4.85**	ug/Kg	J
135-98-8	sec-Butylbenzene	B2758-6994	0.55	0.55	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-6994	0.58	0.58	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-6994	0.59	0.59	ug/Kg	U
91-20-3	Naphthalene	B2758-6994	0.55	0.55	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-6994	96.8 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-6994	92.6 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-6994	100.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-6994	100.0 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-5

Client Sample ID: 40S2
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 10/10/2008

Type: Grab

Collected: 10/09/2008 12:05
% Solid: 94.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-6995	0.55	0.55	ug/Kg	U
71-43-2	Benzene	B2758-6995	0.56	0.56	ug/Kg	U
108-88-3	Toluene	B2758-6995	0.51	**0.74**	ug/Kg	J
100-41-4	Ethylbenzene	B2758-6995	0.55	0.55	ug/Kg	U
108-38-3	m,p-xylene	B2758-6995	0.95	0.95	ug/Kg	U
95-47-6	o-xylene	B2758-6995	0.41	0.41	ug/Kg	U
1330-20-7	Xylenes(Total)	B2758-6995	0.95	0.95	ug/Kg	U
98-82-8	Isopropylbenzene	B2758-6995	0.47	0.47	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-6995	0.49	0.49	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-6995	0.47	0.47	ug/Kg	U
98-06-6	tert-Butylbenzene	B2758-6995	0.56	0.56	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-6995	0.39	0.39	ug/Kg	U
135-98-8	sec-Butylbenzene	B2758-6995	0.48	0.48	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-6995	0.50	0.50	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-6995	0.51	0.51	ug/Kg	U
91-20-3	Naphthalene	B2758-6995	0.48	0.48	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-6995	96.9 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-6995	97.2 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-6995	102.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-6995	99.7 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-6

Client Sample ID: 40S3
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 10/10/2008

Type: Grab

Collected: 10/09/2008 12:10
% Solid: 87.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-6996	0.59	0.59	ug/Kg	U
71-43-2	Benzene	B2758-6996	0.60	0.60	ug/Kg	U
108-88-3	Toluene	B2758-6996	0.55	**3.00**	ug/Kg	J
100-41-4	Ethylbenzene	B2758-6996	0.59	0.59	ug/Kg	U
108-38-3	m,p-xylene	B2758-6996	1.03	**2.71**	ug/Kg	J
95-47-6	o-xylene	B2758-6996	0.44	**1.32**	ug/Kg	J
1330-20-7	Xylenes(Total)	B2758-6996	1.03	**4.03**	ug/Kg	J
98-82-8	Isopropylbenzene	B2758-6996	0.50	0.50	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-6996	0.52	0.52	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-6996	0.50	**0.83**	ug/Kg	J
98-06-6	tert-Butylbenzene	B2758-6996	0.60	0.60	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-6996	0.42	**1.79**	ug/Kg	J
135-98-8	sec-Butylbenzene	B2758-6996	0.51	0.51	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-6996	0.54	0.54	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-6996	0.55	0.55	ug/Kg	U
91-20-3	Naphthalene	B2758-6996	0.51	0.51	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-6996	98.4 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-6996	90.1 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-6996	102.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-6996	99.4 %	(86 - 108)	

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STARS Volatile Compounds by SW 846 8260

Sample: 0810148-7

Client Sample ID: 40B2
Matrix: Soil
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/10/2008

Collected: 10/09/2008 12:15
% Solid: 63.1%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-6997	0.82	0.82	ug/Kg	U
71-43-2	Benzene	B2758-6997	0.84	0.84	ug/Kg	U
108-88-3	Toluene	B2758-6997	0.76	0.76	ug/Kg	U
100-41-4	Ethylbenzene	B2758-6997	0.82	0.82	ug/Kg	U
108-38-3	m,p-xylene	B2758-6997	1.42	1.42	ug/Kg	U
95-47-6	o-xylene	B2758-6997	0.62	0.62	ug/Kg	U
1330-20-7	Xylenes(Total)	B2758-6997	1.42	1.42	ug/Kg	U
98-82-8	Isopropylbenzene	B2758-6997	0.70	0.70	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-6997	0.73	0.73	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-6997	0.70	0.70	ug/Kg	U
98-06-6	tert-Butylbenzene	B2758-6997	0.84	0.84	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-6997	0.58	0.58	ug/Kg	U
135-98-8	sec-Butylbenzene	B2758-6997	0.71	0.71	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-6997	0.74	0.74	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-6997	0.76	0.76	ug/Kg	U
91-20-3	Naphthalene	B2758-6997	0.71	0.71	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-6997	97.4 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-6997	95.3 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-6997	103.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-6997	99.7 %	(86 - 108)	

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STARS Volatile Compounds by SW 846 8260

Sample: 0810148-8

Client Sample ID: 40S4
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 10/10/2008

Type: Grab

Collected: 10/09/2008 12:20
% Solid: 88.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-6998	0.59	0.59	ug/Kg	U
71-43-2	Benzene	B2758-6998	0.60	0.60	ug/Kg	U
108-88-3	Toluene	B2758-6998	0.54	0.54	ug/Kg	U
100-41-4	Ethylbenzene	B2758-6998	0.59	0.59	ug/Kg	U
108-38-3	m,p-xylene	B2758-6998	1.02	1.02	ug/Kg	U
95-47-6	o-xylene	B2758-6998	0.44	0.44	ug/Kg	U
1330-20-7	Xylenes(Total)	B2758-6998	1.02	1.02	ug/Kg	U
98-82-8	Isopropylbenzene	B2758-6998	0.50	0.50	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-6998	0.52	0.52	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-6998	0.50	0.50	ug/Kg	U
98-06-6	tert-Butylbenzene	B2758-6998	0.60	0.60	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-6998	0.42	0.42	ug/Kg	U
135-98-8	sec-Butylbenzene	B2758-6998	0.51	0.51	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-6998	0.53	0.53	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-6998	0.54	0.54	ug/Kg	U
91-20-3	Naphthalene	B2758-6998	0.51	0.51	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-6998	95.6 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-6998	95.3 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-6998	102.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-6998	99.5 %	(86 - 108)	

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STARS Volatile Compounds by SW 846 8260

Sample: 0810148-9

Client Sample ID: 40S5
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 10/10/2008

Type: Grab

Collected: 10/09/2008 12:25
% Solid: 85.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-6999	0.61	0.61	ug/Kg	U
71-43-2	Benzene	B2758-6999	0.62	**1.15**	ug/Kg	J
108-88-3	Toluene	B2758-6999	0.56	**5.26**	ug/Kg	J
100-41-4	Ethylbenzene	B2758-6999	0.61	0.61	ug/Kg	U
108-38-3	m,p-xylene	B2758-6999	1.05	**2.62**	ug/Kg	J
95-47-6	o-xylene	B2758-6999	0.46	**0.93**	ug/Kg	J
1330-20-7	Xylenes(Total)	B2758-6999	1.05	**3.55**	ug/Kg	J
98-82-8	Isopropylbenzene	B2758-6999	0.51	0.51	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-6999	0.54	0.54	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-6999	0.51	0.51	ug/Kg	U
98-06-6	tert-Butylbenzene	B2758-6999	0.62	0.62	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-6999	0.43	0.43	ug/Kg	U
135-98-8	sec-Butylbenzene	B2758-6999	0.53	0.53	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-6999	0.55	0.55	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-6999	0.56	0.56	ug/Kg	U
91-20-3	Naphthalene	B2758-6999	0.53	0.53	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-6999	96.9 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-6999	95.4 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-6999	103.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-6999	99.6 %	(86 - 108)	

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STARS Volatile Compounds by SW 846 8260

Sample: 0810148-10

Client Sample ID: 40S6
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 10/10/2008

Type: Grab

Collected: 10/09/2008 12:30
% Solid: 90.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-7000	0.57	0.57	ug/Kg	U
71-43-2	Benzene	B2758-7000	0.58	0.58	ug/Kg	U
108-88-3	Toluene	B2758-7000	0.53	**1.76**	ug/Kg	J
100-41-4	Ethylbenzene	B2758-7000	0.57	0.57	ug/Kg	U
108-38-3	m,p-xylene	B2758-7000	0.99	**1.59**	ug/Kg	J
95-47-6	o-xylene	B2758-7000	0.43	**3.21**	ug/Kg	J
1330-20-7	Xylenes(Total)	B2758-7000	0.99	**4.81**	ug/Kg	J
98-82-8	Isopropylbenzene	B2758-7000	0.48	0.48	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-7000	0.51	0.51	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-7000	0.48	**1.75**	ug/Kg	J
98-06-6	tert-Butylbenzene	B2758-7000	0.58	0.58	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-7000	0.41	**0.81**	ug/Kg	J
135-98-8	sec-Butylbenzene	B2758-7000	0.50	0.50	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-7000	0.52	0.52	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-7000	0.53	0.53	ug/Kg	U
91-20-3	Naphthalene	B2758-7000	0.50	0.50	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-7000	95.2 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-7000	97.5 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-7000	103.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-7000	99.9 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-11
Client Sample ID: 40A1
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 10/11/2008

Type: Grab

Collected: 10/09/2008 14:20
% Solid: 89.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-7001	0.58	0.58	ug/Kg	U
71-43-2	Benzene	B2758-7001	0.59	0.59	ug/Kg	U
108-88-3	Toluene	B2758-7001	0.54	**0.97**	ug/Kg	J
100-41-4	Ethylbenzene	B2758-7001	0.58	0.58	ug/Kg	U
108-38-3	m,p-xylene	B2758-7001	1.01	1.01	ug/Kg	U
95-47-6	o-xylene	B2758-7001	0.44	0.44	ug/Kg	U
1330-20-7	Xylenes(Total)	B2758-7001	1.01	1.01	ug/Kg	U
98-82-8	Isopropylbenzene	B2758-7001	0.49	0.49	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-7001	0.52	0.52	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-7001	0.49	0.49	ug/Kg	U
98-06-6	tert-Butylbenzene	B2758-7001	0.59	0.59	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-7001	0.41	0.41	ug/Kg	U
135-98-8	sec-Butylbenzene	B2758-7001	0.50	0.50	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-7001	0.53	0.53	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-7001	0.54	0.54	ug/Kg	U
91-20-3	Naphthalene	B2758-7001	0.50	0.50	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-7001	97.4 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-7001	93.3 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-7001	103.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-7001	99.0 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-12

Client Sample ID: 40P2
Matrix: Soil
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/11/2008

Collected: 10/09/2008 14:25
% Solid: 89%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-7002	0.58	0.58	ug/Kg	U
71-43-2	Benzene	B2758-7002	0.59	0.59	ug/Kg	U
108-88-3	Toluene	B2758-7002	0.54	0.54	ug/Kg	U
100-41-4	Ethylbenzene	B2758-7002	0.58	0.58	ug/Kg	U
108-38-3	m,p-xylene	B2758-7002	1.01	1.01	ug/Kg	U
95-47-6	o-xylene	B2758-7002	0.44	0.44	ug/Kg	U
1330-20-7	Xylenes(Total)	B2758-7002	1.01	1.01	ug/Kg	U
98-82-8	Isopropylbenzene	B2758-7002	0.49	0.49	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-7002	0.52	0.52	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-7002	0.49	0.49	ug/Kg	U
98-06-6	tert-Butylbenzene	B2758-7002	0.59	0.59	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-7002	0.41	0.41	ug/Kg	U
135-98-8	sec-Butylbenzene	B2758-7002	0.50	0.50	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-7002	0.53	0.53	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-7002	0.54	0.54	ug/Kg	U
91-20-3	Naphthalene	B2758-7002	0.50	0.50	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-7002	98.3 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-7002	91.4 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-7002	105.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-7002	99.7 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-13

Client Sample ID: 40P3
Matrix: Soil
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/11/2008

Collected: 10/09/2008 14:30
% Solid: 93.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-7003	0.56	0.56	ug/Kg	U
71-43-2	Benzene	B2758-7003	0.57	0.57	ug/Kg	U
108-88-3	Toluene	B2758-7003	0.51	0.51	ug/Kg	U
100-41-4	Ethylbenzene	B2758-7003	0.56	0.56	ug/Kg	U
108-38-3	m,p-xylene	B2758-7003	0.96	0.96	ug/Kg	U
95-47-6	o-xylene	B2758-7003	0.42	0.42	ug/Kg	U
1330-20-7	Xylenes(Total)	B2758-7003	0.96	0.96	ug/Kg	U
98-82-8	Isopropylbenzene	B2758-7003	0.47	0.47	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-7003	0.49	0.49	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-7003	0.47	0.47	ug/Kg	U
98-06-6	tert-Butylbenzene	B2758-7003	0.57	0.57	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-7003	0.40	0.40	ug/Kg	U
135-98-8	sec-Butylbenzene	B2758-7003	0.48	0.48	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-7003	0.50	0.50	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-7003	0.51	0.51	ug/Kg	U
91-20-3	Naphthalene	B2758-7003	0.48	0.48	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-7003	95.2 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-7003	93.7 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-7003	103.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-7003	99.7 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-14

Client Sample ID: 40P4
Matrix: Soil
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/11/2008

Collected: 10/09/2008 14:35
% Solid: 93.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2758-7004	0.56	0.56	ug/Kg	U
71-43-2	Benzene	B2758-7004	0.57	0.57	ug/Kg	U
108-88-3	Toluene	B2758-7004	0.51	0.51	ug/Kg	U
100-41-4	Ethylbenzene	B2758-7004	0.56	0.56	ug/Kg	U
108-38-3	m,p-xylene	B2758-7004	0.96	0.96	ug/Kg	U
95-47-6	o-xylene	B2758-7004	0.42	0.42	ug/Kg	U
1330-20-7	Xylenes(Total)	B2758-7004	0.96	0.96	ug/Kg	U
98-82-8	Isopropylbenzene	B2758-7004	0.47	0.47	ug/Kg	U
103-65-1	n-Propylbenzene	B2758-7004	0.49	0.49	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2758-7004	0.47	0.47	ug/Kg	U
98-06-6	tert-Butylbenzene	B2758-7004	0.57	0.57	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2758-7004	0.40	0.40	ug/Kg	U
135-98-8	sec-Butylbenzene	B2758-7004	0.48	0.48	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2758-7004	0.50	0.50	ug/Kg	U
104-51-8	n-Butylbenzene	B2758-7004	0.51	0.51	ug/Kg	U
91-20-3	Naphthalene	B2758-7004	0.48	0.48	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2758-7004	97.1 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2758-7004	94.6 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2758-7004	103.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2758-7004	99.2 %	(86 - 108)	

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10/22/2008

STARS Volatile Compounds by SW 846 8260

Sample: 0810148-15

Client Sample ID: 40P12
Matrix: Soil
Type: Grab
Remarks: See Case Narrative
Analyzed Date: 10/13/2008

Collected: 10/09/2008 14:55
% Solid: 88.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B2759-7014	0.59	0.59	ug/Kg	U
71-43-2	Benzene	B2759-7014	0.60	0.60	ug/Kg	U
108-88-3	Toluene	B2759-7014	0.54	0.54	ug/Kg	U
100-41-4	Ethylbenzene	B2759-7014	0.59	0.59	ug/Kg	U
108-38-3	m,p-xylene	B2759-7014	1.02	1.02	ug/Kg	U
95-47-6	o-xylene	B2759-7014	0.44	0.44	ug/Kg	U
1330-20-7	Xylenes(Total)	B2759-7014	1.02	1.02	ug/Kg	U
98-82-8	Isopropylbenzene	B2759-7014	0.50	0.50	ug/Kg	U
103-65-1	n-Propylbenzene	B2759-7014	0.52	0.52	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2759-7014	0.50	0.50	ug/Kg	U
98-06-6	tert-Butylbenzene	B2759-7014	0.60	0.60	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2759-7014	0.42	0.42	ug/Kg	U
135-98-8	sec-Butylbenzene	B2759-7014	0.51	0.51	ug/Kg	U
99-87-6	p-Isopropyltoluene	B2759-7014	0.53	0.53	ug/Kg	U
104-51-8	n-Butylbenzene	B2759-7014	0.54	0.54	ug/Kg	U
91-20-3	Naphthalene	B2759-7014	0.51	0.51	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2759-7014	98.3 %	(91 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2759-7014	89.0 %	(74 - 121)	
4774-33-8	DIBROMOFLUOROMETHANE	B2759-7014	102.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2759-7014	98.8 %	(86 - 108)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-1

Client Sample ID: 61B1
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 10:20
% Solid: 82.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8571	48.9	**888**	ug/Kg	
83-32-9	Acenaphthene	C2114-8571	51.2	51.2	ug/Kg	U
86-73-7	Fluorene	C2114-8571	48.9	**1120**	ug/Kg	
85-01-8	Phenanthrene	C2114-8573	554	**3450**	ug/Kg	J
120-12-7	Anthracene	C2114-8573	541	**1550**	ug/Kg	J
206-44-0	Fluoranthene	C2114-8573	670	670	ug/Kg	U
129-00-0	Pyrene	C2114-8571	45.0	**993**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8571	51.5	**154**	ug/Kg	J
218-01-9	Chrysene	C2114-8571	64.4	**174**	ug/Kg	J
205-99-2	Benzo(b)fluoranthene	C2114-8571	50.5	**122**	ug/Kg	J
207-08-9	Benzo(k)fluoranthene	C2114-8571	92.6	**118**	ug/Kg	J
50-32-8	Benzo(a)pyrene	C2114-8571	63.4	**129**	ug/Kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8571	56.2	**89.4**	ug/Kg	J
53-70-3	Dibenzo(a,h)anthracene	C2114-8571	67.9	67.9	ug/Kg	U
191-24-2	Benzo(g,h,i)perylene	C2114-8571	92.9	**96.7**	ug/Kg	J
208-96-8	Acenaphthylene	C2114-8571	41.8	41.8	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8571	96.7 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8571	72.4 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8571	52.9 %	(18 - 137)	

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STARS Semivolatiles by SW846 8270C

Sample: 0810148-2

Client Sample ID: 61B2
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 10:25
% Solid: 80.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8572	50.1	**4630**	ug/Kg	
83-32-9	Acenaphthene	C2114-8574	525	**1840**	ug/Kg	J
86-73-7	Fluorene	C2114-8574	501	**4190**	ug/Kg	J
85-01-8	Phenanthrene	C2114-8574	567	**11900**	ug/Kg	
120-12-7	Anthracene	C2114-8574	555	**1560**	ug/Kg	J
206-44-0	Fluoranthene	C2114-8574	687	**1110**	ug/Kg	J
129-00-0	Pyrene	C2114-8572	46.1	**1620**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8572	52.7	**488**	ug/Kg	J
218-01-9	Chrysene	C2114-8572	66.0	**460**	ug/Kg	J
205-99-2	Benzo(b)fluoranthene	C2114-8572	51.7	**312**	ug/Kg	J
207-08-9	Benzo(k)fluoranthene	C2114-8572	94.9	**352**	ug/Kg	J
50-32-8	Benzo(a)pyrene	C2114-8572	65.0	**383**	ug/Kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8572	57.6	**209**	ug/Kg	J
53-70-3	Dibenzo(a,h)anthracene	C2114-8572	69.6	**99.1**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8572	95.3	**204**	ug/Kg	J
208-96-8	Acenaphthylene	C2114-8574	429	429	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8572	44.7 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8572	122.0 %	(23 - 120)	D
1718-51-0	TERPHENYL-D14	C2114-8572	52.3 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-3

Client Sample ID: 40S1
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 11:55
% Solid: 89.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8585	44.8	**187**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8585	46.9	46.9	ug/Kg	U
86-73-7	Fluorene	C2114-8585	44.8	44.8	ug/Kg	U
85-01-8	Phenanthrene	C2114-8585	50.7	**169**	ug/Kg	J
120-12-7	Anthracene	C2114-8585	49.6	**53.2**	ug/Kg	J
206-44-0	Fluoranthene	C2114-8585	61.4	**319**	ug/Kg	J
129-00-0	Pyrene	C2114-8585	41.2	**259**	ug/Kg	J
56-55-3	Benzo(a)anthracene	C2114-8585	47.2	**215**	ug/Kg	J
218-01-9	Chrysene	C2114-8585	59.0	**261**	ug/Kg	J
205-99-2	Benzo(b)fluoranthene	C2114-8585	46.3	**299**	ug/Kg	J
207-08-9	Benzo(k)fluoranthene	C2114-8585	84.8	**265**	ug/Kg	J
50-32-8	Benzo(a)pyrene	C2114-8585	58.1	**288**	ug/Kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8585	51.5	**227**	ug/Kg	J
53-70-3	Dibenzo(a,h)anthracene	C2114-8585	62.2	**81.6**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8585	85.2	**238**	ug/Kg	J
208-96-8	Acenaphthylene	C2114-8585	38.4	**87.8**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8585	70.2 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8585	73.3 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8585	88.6 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-4

Client Sample ID: 40B1
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 12:00
% Solid: 81.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8586	49.3	**151**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8586	51.6	**340**	ug/Kg	J
86-73-7	Fluorene	C2114-8586	49.3	**474**	ug/Kg	J
85-01-8	Phenanthrene	C2114-8586	55.8	**5030**	ug/Kg	
120-12-7	Anthracene	C2114-8586	54.5	**961**	ug/Kg	
206-44-0	Fluoranthene	C2114-8586	67.5	**8130**	ug/Kg	
129-00-0	Pyrene	C2114-8586	45.3	**6310**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8586	51.8	**3750**	ug/Kg	
218-01-9	Chrysene	C2114-8586	64.8	**3730**	ug/Kg	
205-99-2	Benzo(b)fluoranthene	C2114-8586	50.9	**2810**	ug/Kg	
207-08-9	Benzo(k)fluoranthene	C2114-8586	93.3	**3050**	ug/Kg	
50-32-8	Benzo(a)pyrene	C2114-8586	63.8	**3470**	ug/Kg	
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8586	56.6	**1990**	ug/Kg	
53-70-3	Dibenzo(a,h)anthracene	C2114-8586	68.4	**761**	ug/Kg	
191-24-2	Benzo(g,h,i)perylene	C2114-8586	93.6	**1830**	ug/Kg	
208-96-8	Acenaphthylene	C2114-8586	42.2	**241**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8586	68.4 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8586	68.7 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8586	81.8 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-5

Client Sample ID: 40S2
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 12:05
% Solid: 94.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8578	42.5	42.5	ug/Kg	U
83-32-9	Acenaphthene	C2114-8578	44.6	**53.0**	ug/Kg	J
86-73-7	Fluorene	C2114-8578	42.5	**91.0**	ug/Kg	J
85-01-8	Phenanthrene	C2114-8578	48.1	**944**	ug/Kg	
120-12-7	Anthracene	C2114-8578	47.1	**295**	ug/Kg	J
206-44-0	Fluoranthene	C2114-8578	58.3	**1980**	ug/Kg	
129-00-0	Pyrene	C2114-8578	39.2	**1490**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8578	44.8	**1010**	ug/Kg	
218-01-9	Chrysene	C2114-8578	56.0	**1080**	ug/Kg	
205-99-2	Benzo(b)fluoranthene	C2114-8578	43.9	**899**	ug/Kg	
207-08-9	Benzo(k)fluoranthene	C2114-8578	80.5	**803**	ug/Kg	
50-32-8	Benzo(a)pyrene	C2114-8578	55.1	**942**	ug/Kg	
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8578	48.9	**614**	ug/Kg	
53-70-3	Dibenzo(a,h)anthracene	C2114-8578	59.0	**246**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8578	80.8	**602**	ug/Kg	
208-96-8	Acenaphthylene	C2114-8578	36.4	**159**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8578	77.4 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8578	70.2 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8578	90.6 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-6

Client Sample ID: 40S3
Matrix: Soil
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Type: Grab

Collected: 10/09/2008 12:10
% Solid: 87.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8588	45.8	**84.1**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8588	48.0	**195**	ug/Kg	J
86-73-7	Fluorene	C2114-8588	45.8	**245**	ug/Kg	J
85-01-8	Phenanthrene	C2114-8588	51.9	**3450**	ug/Kg	
120-12-7	Anthracene	C2114-8588	50.7	**903**	ug/Kg	
206-44-0	Fluoranthene	C2114-8588	62.8	**5720**	ug/Kg	
129-00-0	Pyrene	C2114-8588	42.2	**4390**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8588	48.2	**2340**	ug/Kg	
218-01-9	Chrysene	C2114-8588	60.3	**2100**	ug/Kg	
205-99-2	Benzo(b)fluoranthene	C2114-8588	47.3	**1530**	ug/Kg	
207-08-9	Benzo(k)fluoranthene	C2114-8588	86.8	**1770**	ug/Kg	
50-32-8	Benzo(a)pyrene	C2114-8588	59.4	**1820**	ug/Kg	
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8588	52.7	**990**	ug/Kg	
53-70-3	Dibenzo(a,h)anthracene	C2114-8588	63.6	**381**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8588	87.1	**879**	ug/Kg	
208-96-8	Acenaphthylene	C2114-8588	39.2	**74.2**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8588	63.9 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8588	63.7 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8588	77.4 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-7

Client Sample ID: 40B2
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 12:15
% Solid: 63.1%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8579	63.7	**96.7**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8579	66.7	66.7	ug/Kg	U
86-73-7	Fluorene	C2114-8579	63.7	63.7	ug/Kg	U
85-01-8	Phenanthrene	C2114-8579	72.1	**550**	ug/Kg	J
120-12-7	Anthracene	C2114-8579	70.5	**146**	ug/Kg	J
206-44-0	Fluoranthene	C2114-8579	87.3	**1560**	ug/Kg	
129-00-0	Pyrene	C2114-8579	58.6	**1320**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8579	67.0	**860**	ug/Kg	
218-01-9	Chrysene	C2114-8579	83.8	**931**	ug/Kg	
205-99-2	Benzo(b)fluoranthene	C2114-8579	65.8	**843**	ug/Kg	
207-08-9	Benzo(k)fluoranthene	C2114-8579	121	**811**	ug/Kg	
50-32-8	Benzo(a)pyrene	C2114-8579	82.6	**925**	ug/Kg	
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8579	73.2	**582**	ug/Kg	J
53-70-3	Dibenzo(a,h)anthracene	C2114-8579	88.4	**228**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8579	121	**589**	ug/Kg	J
208-96-8	Acenaphthylene	C2114-8579	54.5	**156**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8579	52.8 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8579	68.0 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8579	67.4 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-8

Client Sample ID: 40S4
Matrix: Soil
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Type: Grab

Collected: 10/09/2008 12:20
% Solid: 88.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8575	45.3	45.3	ug/Kg	U
83-32-9	Acenaphthene	C2114-8575	47.4	47.4	ug/Kg	U
86-73-7	Fluorene	C2114-8575	45.3	45.3	ug/Kg	U
85-01-8	Phenanthrene	C2114-8575	51.2	**153**	ug/Kg	J
120-12-7	Anthracene	C2114-8575	50.1	50.1	ug/Kg	U
206-44-0	Fluoranthene	C2114-8575	62.0	**285**	ug/Kg	J
129-00-0	Pyrene	C2114-8575	41.7	**238**	ug/Kg	J
56-55-3	Benzo(a)anthracene	C2114-8575	47.6	**159**	ug/Kg	J
218-01-9	Chrysene	C2114-8575	59.6	**185**	ug/Kg	J
205-99-2	Benzo(b)fluoranthene	C2114-8575	46.7	**141**	ug/Kg	J
207-08-9	Benzo(k)fluoranthene	C2114-8575	85.7	**131**	ug/Kg	J
50-32-8	Benzo(a)pyrene	C2114-8575	58.7	**153**	ug/Kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8575	52.0	**83.3**	ug/Kg	J
53-70-3	Dibenzo(a,h)anthracene	C2114-8575	62.8	62.8	ug/Kg	U
191-24-2	Benzo(g,h,i)perylene	C2114-8575	86.0	86.0	ug/Kg	U
208-96-8	Acenaphthylene	C2114-8575	38.7	38.7	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8575	73.7 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8575	71.9 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8575	82.1 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-9

Client Sample ID: 40S5
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 12:25
% Solid: 85.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8580	46.9	**255**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8580	49.1	**78.7**	ug/Kg	J
86-73-7	Fluorene	C2114-8580	46.9	**74.9**	ug/Kg	J
85-01-8	Phenanthrene	C2114-8580	53.0	**874**	ug/Kg	
120-12-7	Anthracene	C2114-8580	51.9	**184**	ug/Kg	J
206-44-0	Fluoranthene	C2114-8580	64.2	**1080**	ug/Kg	
129-00-0	Pyrene	C2114-8580	43.1	**900**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8580	49.3	**540**	ug/Kg	J
218-01-9	Chrysene	C2114-8580	61.7	**569**	ug/Kg	J
205-99-2	Benzo(b)fluoranthene	C2114-8580	48.4	**422**	ug/Kg	J
207-08-9	Benzo(k)fluoranthene	C2114-8580	88.7	**397**	ug/Kg	J
50-32-8	Benzo(a)pyrene	C2114-8580	60.7	**464**	ug/Kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8580	53.8	**278**	ug/Kg	J
53-70-3	Dibenzo(a,h)anthracene	C2114-8580	65.0	**119**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8580	89.0	**281**	ug/Kg	J
208-96-8	Acenaphthylene	C2114-8580	40.1	**48.7**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8580	73.8 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8580	65.7 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8580	84.7 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-10

Client Sample ID: 40S6
Matrix: Soil
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Type: Grab

Collected: 10/09/2008 12:30
% Solid: 90.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8590	44.4	**119**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8590	46.5	**234**	ug/Kg	J
86-73-7	Fluorene	C2114-8590	44.4	**341**	ug/Kg	J
85-01-8	Phenanthrene	C2114-8590	50.3	**4660**	ug/Kg	
120-12-7	Anthracene	C2114-8590	49.2	**1040**	ug/Kg	
206-44-0	Fluoranthene	C2114-8590	60.9	**7150**	ug/Kg	
129-00-0	Pyrene	C2114-8590	40.9	**5240**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8590	46.7	**2920**	ug/Kg	
218-01-9	Chrysene	C2114-8590	58.5	**2660**	ug/Kg	
205-99-2	Benzo(b)fluoranthene	C2114-8590	45.9	**1960**	ug/Kg	
207-08-9	Benzo(k)fluoranthene	C2114-8590	84.1	**2040**	ug/Kg	
50-32-8	Benzo(a)pyrene	C2114-8590	57.6	**2370**	ug/Kg	
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8590	51.0	**1110**	ug/Kg	
53-70-3	Dibenzo(a,h)anthracene	C2114-8590	61.7	**449**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8590	84.4	**973**	ug/Kg	
208-96-8	Acenaphthylene	C2114-8590	38.0	**104**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8590	73.5 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8590	70.0 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8590	81.3 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-11

Client Sample ID: 40A1
Matrix: Soil
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Type: Grab

Collected: 10/09/2008 14:20
% Solid: 89.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8587	45.1	**249**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8587	47.2	**144**	ug/Kg	J
86-73-7	Fluorene	C2114-8587	45.1	**151**	ug/Kg	J
85-01-8	Phenanthrene	C2114-8587	51.0	**4130**	ug/Kg	
120-12-7	Anthracene	C2114-8587	49.9	**1130**	ug/Kg	
206-44-0	Fluoranthene	C2115-8612	309	**13700**	ug/Kg	
129-00-0	Pyrene	C2115-8612	207	**11000**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8587	47.4	**8310**	ug/Kg	
218-01-9	Chrysene	C2114-8587	59.3	**7620**	ug/Kg	
205-99-2	Benzo(b)fluoranthene	C2114-8587	46.5	**5710**	ug/Kg	
207-08-9	Benzo(k)fluoranthene	C2114-8587	85.3	**6510**	ug/Kg	
50-32-8	Benzo(a)pyrene	C2114-8587	58.4	**7530**	ug/Kg	
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8587	51.8	**3860**	ug/Kg	
53-70-3	Dibenzo(a,h)anthracene	C2114-8587	62.6	**1540**	ug/Kg	
191-24-2	Benzo(g,h,i)perylene	C2114-8587	85.7	**3570**	ug/Kg	
208-96-8	Acenaphthylene	C2114-8587	38.6	**121**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8587	71.2 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8587	66.5 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8587	83.0 %	(18 - 137)	

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STARS Semivolatiles by SW846 8270C

Sample: 0810148-12

Client Sample ID: 40P2
Matrix: Soil
Type: Grab
Collected: 10/09/2008 14:25
% Solid: 89%
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8581	45.2	**129**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8581	47.3	47.3	ug/Kg	U
86-73-7	Fluorene	C2114-8581	45.2	45.2	ug/Kg	U
85-01-8	Phenanthrene	C2114-8581	51.1	**426**	ug/Kg	J
120-12-7	Anthracene	C2114-8581	50.0	**105**	ug/Kg	J
206-44-0	Fluoranthene	C2114-8581	61.9	**1090**	ug/Kg	
129-00-0	Pyrene	C2114-8581	41.6	**934**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8581	47.5	**590**	ug/Kg	
218-01-9	Chrysene	C2114-8581	59.4	**760**	ug/Kg	
205-99-2	Benzo(b)fluoranthene	C2114-8581	46.6	**640**	ug/Kg	
207-08-9	Benzo(k)fluoranthene	C2114-8581	85.5	**606**	ug/Kg	
50-32-8	Benzo(a)pyrene	C2114-8581	58.5	**633**	ug/Kg	
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8581	51.9	**439**	ug/Kg	J
53-70-3	Dibenzo(a,h)anthracene	C2114-8581	62.7	**184**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8581	85.8	**437**	ug/Kg	J
208-96-8	Acenaphthylene	C2114-8581	38.7	**90.7**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8581	75.0 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8581	72.2 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8581	84.4 %	(18 - 137)	

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STARS Semivolatiles by SW846 8270C

Sample: 0810148-13

Client Sample ID: 40P3
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 14:30
% Solid: 93.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8576	42.9	**2450**	ug/Kg	
83-32-9	Acenaphthene	C2114-8576	45.0	45.0	ug/Kg	U
86-73-7	Fluorene	C2114-8576	42.9	42.9	ug/Kg	U
85-01-8	Phenanthrene	C2114-8576	48.6	**121**	ug/Kg	J
120-12-7	Anthracene	C2114-8576	47.5	47.5	ug/Kg	U
206-44-0	Fluoranthene	C2114-8576	58.9	58.9	ug/Kg	U
129-00-0	Pyrene	C2114-8576	39.5	**53.0**	ug/Kg	J
56-55-3	Benzo(a)anthracene	C2114-8576	45.2	45.2	ug/Kg	U
218-01-9	Chrysene	C2114-8576	56.5	**114**	ug/Kg	J
205-99-2	Benzo(b)fluoranthene	C2114-8576	44.3	**48.3**	ug/Kg	J
207-08-9	Benzo(k)fluoranthene	C2114-8576	81.3	81.3	ug/Kg	U
50-32-8	Benzo(a)pyrene	C2114-8576	55.7	55.7	ug/Kg	U
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8576	49.4	49.4	ug/Kg	U
53-70-3	Dibenzo(a,h)anthracene	C2114-8576	59.6	59.6	ug/Kg	U
191-24-2	Benzo(g,h,i)perylene	C2114-8576	81.6	81.6	ug/Kg	U
208-96-8	Acenaphthylene	C2114-8576	36.8	36.8	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8576	63.7 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8576	61.2 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8576	85.1 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-14

Client Sample ID: 40P4
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 14:35
% Solid: 93.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8577	43.0	**60.4**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8577	45.0	45.0	ug/Kg	U
86-73-7	Fluorene	C2114-8577	43.0	43.0	ug/Kg	U
85-01-8	Phenanthrene	C2114-8577	48.7	**246**	ug/Kg	J
120-12-7	Anthracene	C2114-8577	47.6	**60.5**	ug/Kg	J
206-44-0	Fluoranthene	C2114-8577	58.9	**716**	ug/Kg	
129-00-0	Pyrene	C2114-8577	39.6	**557**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8577	45.2	**511**	ug/Kg	J
218-01-9	Chrysene	C2114-8577	56.6	**602**	ug/Kg	
205-99-2	Benzo(b)fluoranthene	C2114-8577	44.4	**591**	ug/Kg	
207-08-9	Benzo(k)fluoranthene	C2114-8577	81.4	**542**	ug/Kg	
50-32-8	Benzo(a)pyrene	C2114-8577	55.7	**552**	ug/Kg	
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8577	49.4	**340**	ug/Kg	J
53-70-3	Dibenzo(a,h)anthracene	C2114-8577	59.7	**149**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8577	81.7	**321**	ug/Kg	J
208-96-8	Acenaphthylene	C2114-8577	36.8	**96.0**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8577	69.1 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8577	65.7 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8577	87.5 %	(18 - 137)	

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10/22/2008

STARS Semivolatiles by SW846 8270C

Sample: 0810148-15

Client Sample ID: 40P12
Matrix: Soil
Type: Grab
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/14/2008

Collected: 10/09/2008 14:55
% Solid: 88.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C2114-8584	45.4	**154**	ug/Kg	J
83-32-9	Acenaphthene	C2114-8584	47.6	**51.2**	ug/Kg	J
86-73-7	Fluorene	C2114-8584	45.4	**64.0**	ug/Kg	J
85-01-8	Phenanthrene	C2114-8584	51.4	**1410**	ug/Kg	
120-12-7	Anthracene	C2114-8584	50.3	**377**	ug/Kg	J
206-44-0	Fluoranthene	C2114-8584	62.3	**5030**	ug/Kg	
129-00-0	Pyrene	C2114-8584	41.8	**3770**	ug/Kg	
56-55-3	Benzo(a)anthracene	C2114-8584	47.8	**2600**	ug/Kg	
218-01-9	Chrysene	C2114-8584	59.8	**2420**	ug/Kg	
205-99-2	Benzo(b)fluoranthene	C2114-8584	46.9	**2010**	ug/Kg	
207-08-9	Benzo(k)fluoranthene	C2114-8584	86.0	**2130**	ug/Kg	
50-32-8	Benzo(a)pyrene	C2114-8584	58.9	**2320**	ug/Kg	
193-39-5	Indeno(1,2,3-cd)pyrene	C2114-8584	52.2	**1370**	ug/Kg	
53-70-3	Dibenzo(a,h)anthracene	C2114-8584	63.1	**521**	ug/Kg	J
191-24-2	Benzo(g,h,i)perylene	C2114-8584	86.3	**1310**	ug/Kg	
208-96-8	Acenaphthylene	C2114-8584	38.9	**118**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2114-8584	74.6 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2114-8584	69.2 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2114-8584	80.9 %	(18 - 137)	

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10/22/2008

TPH - Method 8015B

Sample: 0810148-1

Client Sample ID: 61B1
Matrix: Soil
Remarks:
Analyzed Date: 10/13/2008
Preparation Date(s) : 10/13/2008

Type: Grab

Collected: 10/09/2008 10:20
% Solid: 82.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	C1054-7	14.6	**4160**	mg/Kg	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C1054-7	49.4 %	(30 - 150)	

Sample: 0810148-2

Client Sample ID: 61B2
Matrix: Soil
Remarks:
Analyzed Date: 10/14/2008
Preparation Date(s) : 10/13/2008

Type: Grab

Collected: 10/09/2008 10:25
% Solid: 80.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	C1054-15	150	**17300**	mg/Kg	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C1054-15	30.1 %	(30 - 150)	

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10/22/2008

Gasoline Range Organics - EPA 8015B

Sample: 0810148-3
Client Sample ID: 40S1
Matrix: Soil
Remarks:
Analyzed Date: 10/14/2008

Type: Grab

Collected: 10/09/2008 11:55
% Solid: 89.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-11	15.4	**22.1**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-4
Client Sample ID: 40B1
Matrix: Soil
Remarks:
Analyzed Date: 10/14/2008

Type: Grab

Collected: 10/09/2008 12:00
% Solid: 81.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-12	16.9	**45.2**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-5
Client Sample ID: 40S2
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 12:05
% Solid: 94.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-13	14.6	14.6	mg/Kg	U

* Results are reported on a dry weight basis

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10/22/2008

Gasoline Range Organics - EPA 8015B

Sample: 0810148-6
Client Sample ID: 40S3
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 12:10
% Solid: 87.7%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-14	15.8	15.8	mg/Kg	U

* Results are reported on a dry weight basis

Sample: 0810148-7
Client Sample ID: 40B2
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 12:15
% Solid: 63.1%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-15	21.9	21.9	mg/Kg	U

* Results are reported on a dry weight basis

Sample: 0810148-8
Client Sample ID: 40S4
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 12:20
% Solid: 88.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-18	15.6	15.6	mg/Kg	U

* Results are reported on a dry weight basis

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10/22/2008

Gasoline Range Organics - EPA 8015B

Sample: 0810148-9
Client Sample ID: 40S5
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 12:25
% Solid: 85.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-19	16.1	**16.6**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-10
Client Sample ID: 40S6
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 12:30
% Solid: 90.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-20	15.3	**21.1**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-11
Client Sample ID: 40A1
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 14:20
% Solid: 89.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-21	15.5	15.5	mg/Kg	U

* Results are reported on a dry weight basis

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

10/22/2008

Gasoline Range Organics - EPA 8015B

Sample: 0810148-12
Client Sample ID: 40P2
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 14:25
% Solid: 89%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-22	15.5	15.5	mg/Kg	U

* Results are reported on a dry weight basis

Sample: 0810148-13
Client Sample ID: 40P3
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 14:30
% Solid: 93.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-23	14.8	**50.7**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-14
Client Sample ID: 40P4
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 14:35
% Solid: 93.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-24	14.8	14.8	mg/Kg	U

* Results are reported on a dry weight basis

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208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

10/22/2008

Gasoline Range Organics - EPA 8015B

Sample: 0810148-15

Client Sample ID: 40P12
Matrix: Soil
Remarks:
Analyzed Date: 10/15/2008

Type: Grab

Collected: 10/09/2008 14:55
% Solid: 88.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	A611-25	15.6	**16.8**	mg/Kg	

* Results are reported on a dry weight basis

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

10/22/2008

Lead by SW846 6010/EPA 200.7

Sample: 0810148-3

Client Sample ID: 40S1
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 11:55
% Solid: 89.7%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.38	**109**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-4

Client Sample ID: 40B1
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 12:00
% Solid: 81.6%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.41	**174**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-5

Client Sample ID: 40S2
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 12:05
% Solid: 94.5%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.35	**41.2**	mg/Kg	

* Results are reported on a dry weight basis

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10/22/2008

Lead by SW846 6010/EPA 200.7

Sample: 0810148-6

Client Sample ID: 40S3
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 12:10
% Solid: 87.7%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.39	**145**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-7

Client Sample ID: 40B2
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 12:15
% Solid: 63.1%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.55	**404**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-8

Client Sample ID: 40S4
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 12:20
% Solid: 88.8%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.39	**132**	mg/Kg	

* Results are reported on a dry weight basis

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10/22/2008

Lead by SW846 6010/EPA 200.7

Sample: 0810148-9

Client Sample ID: 40S5
Matrix: Soil
Type: Grab
Collected: 10/09/2008 12:25
% Solid: 85.8%
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.38	**239**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-10

Client Sample ID: 40S6
Matrix: Soil
Type: Grab
Collected: 10/09/2008 12:30
% Solid: 90.5%
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.37	**116**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-11

Client Sample ID: 40A1
Matrix: Soil
Type: Grab
Collected: 10/09/2008 14:20
% Solid: 89.2%
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.39	**82.9**	mg/Kg	

* Results are reported on a dry weight basis

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10/22/2008

Lead by SW846 6010/EPA 200.7

Sample: 0810148-12

Client Sample ID: 40P2
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 14:25
% Solid: 89%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.37	**101**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-13

Client Sample ID: 40P3
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 14:30
% Solid: 93.6%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.37	**164**	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0810148-14

Client Sample ID: 40P4
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 14:35
% Solid: 93.5%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.35	**45.9**	mg/Kg	

* Results are reported on a dry weight basis

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Phone - 631-249-1456 Fax - 631-249-8344

10/22/2008

Lead by SW846 6010/EPA 200.7

Sample: 0810148-15

Client Sample ID: 40P12
Matrix: Soil
Remarks:
Analyzed Date: 10/21/2008
Preparation Date(s) : 10/15/2008

Type: Grab

Collected: 10/09/2008 14:55
% Solid: 88.5%

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-92-1	Lead	0.37	**115**	mg/Kg	

* Results are reported on a dry weight basis

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208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

10/22/2008

Case Narrative

VOLATILES ANALYSIS
GCMS-V

INTRODUCTION

Samples were analyzed in accordance with protocols based on SW846 Methodologies, using accepted QA/QC procedures.
All required QA/QC parameters met acceptable limits unless otherwise noted.

HOLDING TIME INFORMATION

All analyses were performed within required holding times.

SAMPLE INFORMATION

Samples were analyzed as per the required protocols. No analytical problems were encountered.

All sets of data have been included in this report package.

SURROGATE RECOVERY INFORMATION

All surrogate recoveries met QC criteria.

MATRIX SPIKE BLANK

The spike recoveries for the matrix spike blank were within QC limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample 0810148-15 was utilized for the MS/MSD analyses. All RPDs were within QC limits.

METHOD BLANK

The method blank associated with these samples did not contain any target compounds at or above QC limits.

TUNE PERFORMANCE

All Tune (BFB) specifications met QC criteria.

CALIBRATION INFORMATION

Initial Calibration: All required minimum RRFs and maximum % RSD requirements have been met in accordance with the Method.
The following compounds were calibrated at 25, 50, 100,
150 and 200 ppb levels in the initial calibration curve:
Acetone
2-Butanone
·pentanone

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10/22/2008

Case Narrative

2-Hexanone

M&P-Xylenes and 2-Chloroethylvinylether were calibrated at 10, 40, 100, 200 and 300 ppb levels.
Acrolein/Acrylonitrile were calibrated at 50,100,150,200 and 250 ppb levels.
Tert Butyl Alcohol (TBA) was calibrated at 50,200,500,1000 and 1500 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Continuing Calibration: All required minimum RRFs and maximum %D requirements have been met in accordance with the Method.

Results were quantitated using initial calibration average of response factors.

INTERNAL STANDARDS

All area responses and retention times fell within acceptable ranges.

Environmental Testing Laboratories, Inc.
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Phone - 631-249-1456 Fax - 631-249-8344

10/22/2008

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is not detected above the Method Detection Limit (MDL). All MDL's are lower than the lowest calibration standard concentration.

J - Indicates an estimated value. The concentration reported was between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag indicates a system monitoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected above the Method Detection Limit (MDL) which is less than the lowest calibration standard concentration.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA
AS - Semi-automated Spectrophotometric
AV - Automated Cold Vapor AA
C - Manual Spectrophotometric
F - Furnace AA
P - ICP
T - Titrimetric

OTHER QUALIFIERS

ND - Not Detected

APPENDIX D
Waste Disposal Information

MILLER ENVIRONMENTAL GROUP, INC.
Daily Job Report

Date: **10/9/08 Thursday**

Page: **1 of 1**

Customer: **Miller's Launch**

Job Number: **M08-0995**

Contact Name: **Sven Van Batavia 917-217-8743**

Contact Phone:

Billing Address: **Pier 7 1/2**
Staten Island, NY 10301

PO#:

Location of Work: **Pier 7 1/2**
Staten Island, NY 10301

Phone:

Job Description: **Vac out 2 UST's and transport for disposal**

Service Code: **O&M**

Materials:	
	Purchased Items:
Equipment:	
(2001) Vac Truck # 522	
	Subcontractors:

Personnel:	Start	End	PPE		Start	End	PPE
(1005) H/T D. Ortega	0230	2230	D				

Meals:

Subsistence:

Start Time: **0230**

Secured Time: 2230

Disposal/Notes: 2,100 - Gallons to United. Manifest # 003404711

I ACKNOWLEDGE AND AUTHORIZE PAYMENT FOR THE ABOVE ITEMIZED LABOR, EQUIPMENT, AND MATERIALS, IN THE QUANTITIES SPECIFIED

APPROVED: [signature] 10/9/08
Customer Representative Date

1512

MILLER ENVIRONMENTAL GROUP, INC.

Daily Job Report

Date: 10/10/08 Friday

Page: of

Customer: ~~City~~ City of New Rochelle

Job Number: MGP-0995

Contact Name:

Contact Phone:

Billing Address:

PO#:

Location of Work: City Hall 15 North Ave New Rochelle NY 10801

Phone:

Job Description: **TRANSPORT WASTE FOR DISPOSAL**

Service Code:

Materials:							
				Purchased Items:			
Equipment:							
(2001) V8 (TRUCK # 502				Subcontractors:			
Personnel:	Start	End	PPE		Start	End	PPE
(2006) C/O J. Ortega	0600	1400					

Meals:

Start Time: 0600

Subsistence:

Secured Time: 1400

Disposal/Notes: 01 00 / - ~~Drums~~ / Yards / ~~Gallons~~ to Crotch on Manifest # 00340421

I ACKNOWLEDGE AND AUTHORIZE PAYMENT FOR THE ABOVE ITEMIZED LABOR, EQUIPMENT, AND MATERIALS, IN THE QUANTITIES SPECIFIED

APPROVED: _____

Customer Representative

Date

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator ID Number	2 Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD986[illegible]	1	800-[illegible]	003404711 JJK

GENERATOR

5 Generator's Name and Mailing Address
City of New Rochelle
City Hall 15 North Ave 14th Floor Outside
New Rochelle, NY 10801 USA
Generator's Phone: 914-[illegible]

Generator's Site Address (if different than mailing address)
Davids Island / Fort Slocum
New Rochelle, NY 10801 USA

6 Transporter 1 Company Name
Miller Environmental Group, Inc

U.S. EPA ID Number
NJD986[illegible]

7 Transporter 2 Company Name

U.S. EPA ID Number

8 Designated Facility Name and Site Address
Bridgeport United Recycling
[illegible] Cross Street
Bridgeport, CT 06610-1030
Facility's Phone: 203-334-1605

U.S. EPA ID Number
CTD[illegible]

9a. HM	9b U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	10. Containers No.	10. Containers Type	11 Total Quantity	12 Unit Wt./Vol.	13 Waste Codes		
X	1 RQ Hazardous waste liquid n.o.s. (D018,D039) 9 UN3082 PGII	01	TT	2,100	G	D018	D039	
	2							
	3							
	4							

14 Special Handling Instructions and Additional Information
NRR 0005
Under Approval #[illegible]
ERG 171
TRUCK 521

15 **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEVEN BIANCO for CITY OF NEW ROCHELLE
Signature:
Month: 10 Day: 9 Year: 08

INT'L

16 International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DANIEL ORTEGA
Signature:
Month: 10 Day: 9 Year: 08

Transporter 2 Printed/Typed Name: JOE C CRESPO
Signature:
Month: 10 Day: 10 Year: 08

DESIGNATED FACILITY

18. Discrepancy

18a Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1	2	3	4
[illegible]		[illegible]	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete

TRANSPORTER'S COPY

UNITED INDUSTRIAL SERVICES

Analytical Laboratory Report

Client/Generator ID-Name:	Miller Environmental Group Remediat	**Sample #:**	**S101008025**
Driver:	EXTERNAL	**Truck:**	EXTERNAL
Sample Identification:		**Sample Type:**	Truck Sample
Date Collected:	10/10/2008	**Target:**	INTERNAL
Time Collected:	8:17 AM	**Profile#:**	P100708005FL
Matrix:	Water	**Sampled By:**	Joel C Trk#522, Gal 2100
Composite/Grab:	COMPOSITE	**Condition:**	
Number of Containers:	1	**Temperature:**	
Manifest #:	003404711JJK	**Received within Holding times?**	NO
Special Handling:			
Job ID:	J1010080067		
Visual Inspection Memo:			
Receiving Plant:	50 Cross Street Bridgeport,CT 06610		

Analytical Information

Parameter	Analytical Method	Result	Unit
pH	EPA9040B	8 60	su
Specific Gravity	GRAVIMETRIC	0.900	g/ml
BTUs/LB	ASTMD240-87	NA	
Flash Point	EPA1020A	70	oF
%Oil	CENTRIFUGE	25	%
%Water	CENTRIFUGE	45	%
%Sediment	CENTRIFUGE	30	%
Compatibility	RGN	101	NONE
PCBs, Total	EPA8082	ND< 2.00	ppm
Total Halogens	EPA9076	ND< 100	ppm
Total Organic Carbon	EPA 9060 TEKMAR DOHRMANN APOLLO9000	NA	
Chromium	EPA 7000A	0 72	ppm
Copper	EPA 7000A	1.00	ppm
Nickel	EPA 7000A	ND< 0 03	ppm
Cadmium	EPA 7000A	ND< 0 03	ppm
Lead	EPA 7000A	ND< 0 03	ppm
Zinc	EPA 7000A	0.11	ppm
Silver	EPA 7000A	ND< 0 03	ppm
Barium	EPA 7000A	ND< 0 03	ppm

Authorized for Release: _____

BRIDGEPORT UNITED RECYCLING

PRICE CHANGE AUTHORIZATION FOR SEDIMENT

Date: 10-10-08

Attention: Ken, Dan, Adam From: John

Bill Information: Miller

Generator Name (if different): City of New Rochelle

Contact Name (print):

Phone# Fax#: 516-876-7946

Manifest or Bill of lading# (or#'s): 003404711JJK H08-0995

Work Order#:

I hereby authorize the following price addition to the above work order number due to Sediment over 3%.

**Signature (3000 Ken (5% Allowed)

Total Sediment= 30%

Receiving Facility: **Bridgeport United Recycling. 50 Cross St. Bridgeport, CT**

Base price: Additional Information: Additional off spec price:

*Please sign and return this to (203) 339-7636. We cannot offload the truck until we receive it back. If you have any further questions, please feel free to call us at **(203) 334-1666**. Thank You.