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#### **1.0 INTRODUCTION**

This report provides a summary of results of a site characterization that was performed by the Jacques Whitford Company, Inc. (JWC) in the vicinity of four former underground storage tanks (USTs) at the Consolidated Edison Company of New York, Inc. (Con Edison) Third Avenue Yard (Site) located at 222 First Street in Brooklyn, New York. A site location map is provided in Figure 1. The site characterization was initiated by Con Edison in response to observations of petroleum-impacted soil and/or groundwater in the areas surrounding the four former USTs. In brief, the site characterization entailed the excavation of soil borings, installation of monitoring wells, and the collection and analysis of soil and groundwater samples. In addition, the characterization included a file review for the Mendon Truck Leasing facility, which is located south of the site. The file review was performed to evaluate claims that impacted soil and groundwater at that site may be related to environmental conditions and/or operations at the Third Avenue Yard.

#### **1.1** Site Description

The site is an active facility used by Con Edison as a customer service center and is located approximately 900 feet east of the Gowanus Canal (Figure 1). As shown on the site plan (Figure 2), the site is bound to the northeast by First Avenue, to the southeast by Fourth Avenue to the northwest by Third Avenue, and to the southwest by Fourth Avenue. Topography at the site is flat. In the region of Brooklyn, where the site is located, the topography slopes gently towards the Gowanus Canal to the west. The surface of the site is covered by asphalt pavement, concrete and buildings.

Historically, the site contained four USTs that had been used to store diesel fuel and gasoline (Figure 2). Two of the USTs were located in the northern portion of the site (North UST Area) and two in the southern area of the site (South UST Area). The North UST Area contained two 2,500-gallon USTs that were used to store gasoline and diesel fuel, respectively. The South UST Area contained two 4,000-gallon USTs that were used to store gasoline and one for diesel fuel, respectively.

The Mendon Truck Leasing facility is located south of the site along Third Street. Operations at the Mendon site include fueling and maintenance of trucks.

## 1.2 Site Geology/Hydrogeology

The site is located within the area encompassed by the United States Geological Survey (USGS) Brooklyn, New York Topographic Quadrangle Map. The site is located at 40°40'37" North Latitude

and 73°53'13" West Longitude. The elevation of the site is approximately 35 feet above Mean Sea Level.

The native soils in Brooklyn (in the vicinity of the site) constitute the Upper Glacial Aquifer and are of comprised of an unsorted and unstratified mixture of sand, silt, clay, boulders, and gravel. These sediments are of Wisconsin Age in the Upper Pleistocene, are glacial in origin, and were deposited as moraine and outwash deposits.

Based on the relatively close proximity of the site to Gowanus Canal and the regional topographic slope from the east to the west, the regional flow of shallow groundwater at the site is expected to flow to the west-southwest. Historical water levels measured at the site indicate that groundwater is present at a depth of approximately 12 feet below grade (ft bg).

## 1.3 Project Background

In July 1996, Con Edison retained Environmental Concepts, Inc. (ECI) to perform an assessment of the North and South UST Areas in preparation for closure of the USTs. As part of the pre-closure assessment for each UST area, ECI excavated four soil borings, installed one groundwater monitoring well, and collected soil and groundwater samples for laboratory analysis. During 1998, after the pre-closure assessment was completed, the USTs were excavated and removed by Yellowstone Industries, Inc. (Yellowstone) which was under subcontract to ECI Building Corporation. In summary, a total of 535 tons of petroleum impacted soil were removed from the site during closure of the USTs. The results of the pre-UST-closure assessments and the UST closure activities are summarized below in Sections 1.3.1 and 1.3.2 below. On September 11 2000, the NYSDEC issued a correspondence to Con Edison indicating that the site was identified as a potential source of petroleum contamination at the Mendon Truck Leasing facility.

## 1.3.1 North UST Area

The analytical results for soil samples that were collected during the pre-closure assessment in the North UST Area indicated that volatile organic compounds (VOC) and semi-volatile organic compounds (SVOCs) were detected at concentrations that exceeded New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) Memorandum No. 1 Guidance Values. Although groundwater sampling from the monitoring well in the North UST Area was initiated during the pre-closure assessment, a sample was not collected due to . the observation of sheen on the groundwater.

On October 1, 1998, the 2,500-gallon USTs were excavated and removed from the North UST Area. During the UST removal, petroleum-impacted soil was removed from the UST excavations and disposed at a permitted disposal facility. On October 22, 1998, five confirmatory soil samples were collected from the excavation. One soil sample was collected from each of the four sidewalls and one sample was collected from the excavation bottom. The soil samples were analyzed for the NYSDEC STARS, Memorandum No. 1 list of VOCs using the Toxicity Characteristics Leaching Procedure



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(TCLP) and for the Resource Conservation and Recovery Act (RCRA)-list of SVOCs using the TCLP.

The analytical results of the post-removal soil samples showed that the concentrations of VOCs and SVOCs that were detected exceeded their respective NYSDEC STARS Guidance Values. The VOCs concentrations ranged from 7.1 micrograms per kilogram (ug/kg) to 154,000 ug/kg. The SVOC concentrations ranged from 298 ug/kg to 13,500 ug/kg. In response to the detection of elevated VOCs and SVOCs in residual soil in the excavation, additional soil was subsequently excavated and disposed. On November 2, 1998, three additional post-excavation soil samples were collected from the excavation. The analytical results for these supplemental confirmatory soil samples also contained VOCs and SVOCs at concentrations above NYSDEC STARS Guidance Values. The VOCs concentrations ranged from 1.3 ug/kg to <u>474,000</u> ug/kg and the concentrations of the SVOCs that were detected ranged from 407 ug/kg to 12,500 ug/kg.

#### **1.3.2** South UST Area

The analytical results for soil samples that were collected during the pre-closure assessment in the South UST Area indicated that VOCs and SVOCs were detected at concentrations that exceeded their respective NYSDEC STARS Alternative Guidance Values. The groundwater sample collected from the well in the South UST Area contained VOC constituents above NYSDEC Groundwater Quality Criteria (GWQC). The concentrations of the VOCs that were detected ranged from 160 micrograms per liter (ug/l) for benzene to 2,100 ug/l for total xylenes. No SVOCs were detected in groundwater.

On November 18, 1998, the USTs in the South UST Area were removed. Subsequently, petroleumimpacted soil was also removed from the excavation and disposed at a permitted disposal facility. On December 4, 1998, a total of eight post-excavation confirmatory soil samples were collected. The post-excavation confirmatory soil samples included one grab sample and one composite sample from each sidewall. The post-excavation confirmatory soil samples were analyzed for the NYSDEC STARS-List of VOCs using the TCLP and the RCRA-list of SVOCs using the TCLP. The analytical results of the post-excavation confirmatory soil samples indicated that five of the eight soil samples contained TCLP VOCs at concentrations above NYSDEC STARS Guidance Values. The concentrations of the TCLP VOCs detected ranged from 9 ug/l to 7,990 ug/l. The TCLP SVOCs concentrations were below the analytical method detection limits.

On December 4, 1998, a groundwater sample was collected from monitoring well MW-1, which is located in the vicinity of the South UST Area. The groundwater sample contained VOCs at concentrations that exceeded their respective GWQS groundwater standards. The VOCs concentrations ranged from 47.5 ug/l for n-butylbenzene to 2,450 ug/l for m, p-xylene.

On December 22, 1998, in response to the detection of VOCs and/or SVOCs in the post-excavation soil samples and/or groundwater samples that were collected from the South UST Area, additional soil was excavated. Immediately following the supplemental excavation, four supplemental post-excavation soil samples were collected from the newly exposed sidewalls and bottom to confirm that petroleum-contaminated soil was removed from the excavation. The soil samples were analyzed for



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NYSDEC STARS-List of VOCs using the TCLP and the RCRA-list of SVOCs using the TCLP. The analytical results for the supplemental post-excavation confirmatory soil samples indicated that TCLP VOCs and TCLP SVOCs were detected at concentrations that were below their respective method detection limits (MDLs). Accordingly, the petroleum-impacted soil had been effectively excavated and removed.

## 1.3.3 Adjacent Property Evaluation

Based upon a meeting with Ms. Jane O'Connell and Ms. Kerry Foley of the NYSDEC, Mr. Angel Chang of Con Edison, and Marc Godick of JWC on June 20, 2000, the NYSDEC indicated that the Con Edison Third Ave Yard had been identified as a potential source of petroleum impact to the property to the south known as the Mendon Truck Leasing Facility. The Mendon Truck Leasing Facility is located at 354 Fourth Avenue, which is located south of the Con Edison facility. Ms. O'Connell requested that, as part of the site characterization for the subject facility, an evaluation performed of the likelihood that petroleum constituents from the subject site could have migrated from the site to the Mendon Truck Leasing Facility. To facilitate this evaluation, a Freedom of Information Law (FOIL) review was conducted of available files provided by the NYSDEC for the subject site and the Mendon Truck Leasing Facility.

## 1.4 Workplan Preparation

On June 20, 2000, a meeting was held with representatives from the NYSDEC and Con Edison. During this meeting, Con Edison agreed to develop a workplan that would describe the activities necessary to characterize the petroleum-impacted soil and/or groundwater that remained in the excavation after removal of the UST, and the associated impacted soils. Con Edison further agreed that, following implementation of a site characterization, it would implement supplemental investigative activities and/or remedial measures as deemed appropriate based on the results of the initial site characterization.

During 2000, Con Edison retained JWC to develop and implement a site characterization workplan. The workplan described the activities necessary to delineate the petroleum-impacted soil and groundwater at the Site and to evaluate potential off-site sources of contamination. The site characterization workplan was submitted to the NYSDEC on July 13, 2000 and was subsequently approved on November 27, 2000. In brief, the workplan included implementation of a field investigation and a file review.

The remainder of this report provides a description of the methods that were implemented during the field investigation, the results of the field investigation, and the findings of the file review.



## 2.0 METHODS OF CHARACTERIZATION

The site characterization was performed by JWC following the methods and protocols described in the June 2000 NYSDEC-approved workplan and the November 22, 2000 workplan addendum. Activities that were performed as part of the field investigation included project set-up and site preparation, excavating soil borings, installation of monitoring wells, fluid level gauging, and groundwater monitoring. The methods used to perform these activities are described below.

## 2.1 Project Set-up and Site Preparation

Prior to starting any invasive field activities, the activities listed below were performed to identify and address any potential safety issues at the site.

- Development of a site-specific Environmental Health and Safety Plan (E-HASP) that was approved by Con Edison prior to the commencement of field work;
- Review of subsurface utility information obtained from Con Edison; and
- Initiate a Code 753 utility mark-out survey.

## 2.2 Soil Boring and Soil Sampling

Due to the relatively high traffic and limited space at the facility, the soil borings were excavated using a direct push probe (DPP) drill rig. The DPP drilling method was selected to allow greater mobility and flexibility in the actual selection of soil borings in the field as compared to using a hollow stem auger (HSA) rig. Soil cores were collected continuously using two-inch diameter, four-foot long macro-core samplers from grade to the final depth of the boring. Upon retrieval, the respective soil core in the macro-core sampler was characterized in the field by the JWC geologist. The soil was characterized for physical properties, that included lithology, grain size, and moisture content, and for physical evidence of petroleum-related contamination, including staining, sheen, separate-phase product (SPP), odors, and VOCs. Screening of the soil for VOCs was performed using an organic vapor meter equipped with a photoionization detector (PID). The PID was calibrated at the start of each day using 100 parts per million (ppm) isobutylene standard gas.

A soil sample was collected from the soil core interval in the vadose zone of each boring with the highest total VOCs concentrations, based on measurements with the PID. The soil samples were collected into laboratory-supplied sample jars, sealed, labeled, and placed in a cooler containing ice. In soil borings where no evidence of petroleum-related contamination was encountered, a soil sample was collected for laboratory analysis from the interval immediately above the water table. The samples were analyzed by Environmental Testing Laboratories, Inc. (ETL) located in Farmingdale, New York for the NYSDEC STARS list of VOCs using the TCLP and Method 8021, and total lead using 6000/7000 series methods. Samples collected from the North UST Area were also analyzed for the stars list of SVOCs using the TCLP and Method 8270.

After the collection of soil samples, the soil borings were grouted with bentonite/cement slurry.

During the drilling activities, a polyethylene liner was placed under the drill rig to contain any potential spills resulting from equipment failure or leaks (e.g., motor oil, hydraulic fluid, diesel fuel, etc.). Drill cuttings were containerized and managed appropriately.

## 2.3 Monitoring Well Installation

Prior to monitoring well installation, a soil boring was excavated using a 6.5-inch diameter hollow stem auger. Each well was constructed with four-inch diameter polyvinyl chloride (PVC) casing and 10 feet of 0.01-inch slotted PVC screen. The screen was placed in the boring to straddled the water table. Clean filter sand was placed in the annulus between the borehole and the outside of the screen, from the bottom of the boring to a depth of two feet above the top of the screen. A bentonite seal was then placed above the filter sand, and the borehole annulus was grouted to grade with a bentonite/cement slurry. A protective flush-mount bolt-down road box was installed in concrete at the grade of each well.

Following installation, the monitoring wells were developed using a pump and surge block. In addition, each well was surveyed for horizontal location, top of well casing elevation (measuring point elevation), and top of manhole elevation. All elevations were surveyed relative to a permanent assumed on-site datum.

During the drilling activities, a polyethylene liner was placed under the drill rig to contain any potential spills resulting from equipment failure or leaks of motor oil, hydraulic fluid, and/or diesel fuel. Drill cuttings, purge water, and other investigation-derived wastes (IDW) were containerized and managed appropriately.

## 2.4 Groundwater Monitoring

Groundwater monitoring included fluid level gauging and groundwater sampling. The fluids levels in all on-site wells were gauged using an electronic water level meter and/or interface probe to determine the depth to water and SPP thickness, if any. Fluid level gauging was performed weekly from January 2001 to May 2001.

Prior to sampling each well, the depths to water and bottom of well were measured using an electronic oil-water interface probe. The well diameter and the thickness of water in each well were used to calculate the volume of water in the well (well volume). Subsequently, a peristaltic pump was used to purge a minimum of three well volumes of water from each well or until the field parameters, pH, temperature, conductivity, and turbidity measured in the purge water, had stabilized. Purge water and other IDW was containerized in 55-gallon drums, and disposed off-site at a permitted waste disposal facility.

After purging was complete, groundwater samples were collected using dedicated disposable polyethylene bailers. Groundwater samples were transferred directly from the bailer to laboratory-supplied sample bottles containing necessary preserving agents. The groundwater samples were analyzed by ETL for NYSDEC STARS list of VOCs using Method 8021. The groundwater samples



collected from the North UST Area were also analyzed for NYSDEC Stars list SVOCs using Method 8270. Temperature, pH, conductivity, and dissolved oxygen in pre- and post-purge groundwater grab samples were measured in the field during sampling.



#### 3.0 RESULTS

The site characterization was conducted by JWC between December 2000 and May 2001. The results of the site characterization are discussed below. Results of the file review are provided in Section 4.0 of this report.

## 3.1 Soil Borings

A total of 17 soil borings were installed at the site between December 13, 2000 and December 15, 2000. The locations and designations of the soil borings and the former UST areas are presented in Figure 2. The boring logs are attached as Appendix A. Field observations of soil conditions encountered during the advancement of the soil borings are summarized below.

Seven soil borings designated B-1N through B-6N were installed at the North UST Area, and 10 soil borings designated B-11S through B-20S were installed at the South UST Area. All soil borings were excavated to a depth of 17 ft bg.

As shown in the soil boring logs, soil that was encountered from grade to approximately 12 ft bg typically consisted of brown to dark-brown fine to coarse sand with little to some silt and gravel. Soil that was encountered from 12 ft bg to 17 ft bg typically consisted of gray to gray-brown fine to coarse sand and silt with traces of silt, clay, and or gravel. Thin layers of organic sand and silt were encountered in soil borings B-3N and B-5N at depths of nine ft bg and 14 ft bg, respectively. During excavation of the soil borings groundwater was encountered between 10 ft bg and 12 ft bg.

Field observations for the borings in the North UST Area included staining, petroleum-like odors, and elevated total VOC concentrations based on PID readings. With the exception of a high VOC concentration detected in soil boring B-3N, VOCs were not detected or were less than 10 ppm in soil borings B-3N and B-5N. The total VOCs concentration in soil boring B-3N that was measured in soil in the 3 to 4 ft bg interval was 1,100 ppm. Total VOC concentrations detected in soil from soil borings B-1N, B-4N, B-6N, and B-7N were highest in the interval straddling the water table, followed by decreasing concentrations with depth. The maximum total VOC concentrations in the intervals straddling the water table in these soil borings ranged from 80 ppm in soil boring B-7N to 520 ppm in soil boring B-1N. Total VOCs concentrations in soil boring B-2N increased with depth with the highest concentration of 185 ppm at the bottom of the boring (17 ft bg).

Field observations in soil borings in the South UST Area included staining, petroleum-like odors, and elevated total VOCs concentrations based on PID readings. Total VOC were not detected or were less than 15 ppm in soil borings B-17S, B-18S and B-20S. Total VOC concentrations detected in soil borings B-11S, B-15S and B-16S increased in the interval that straddles the water table, followed by decreasing concentrations with depth. The maximum total VOC concentrations B-11S to 300 ppm in soil borings B-15S and B-16S. Elevated total VOC concentrations were



detected at approximately eight ft bg in soil borings B-12S, B-13S and B-19S. During drilling of these borings, groundwater was encountered in these borings at 12 ft bg on average. Accordingly, the elevated total VOCs in these borings appears to be generally limited to the vadose zone. Total VOC concentrations in soil boring B-14S increased with depth with the highest concentration of 2,000 ppm at the bottom of the boring at 17 ft bg.

## 3.2 Installation of Groundwater Monitoring Wells

A total of 13 groundwater monitoring wells were installed between December 18, 2000 and December 20, 2000. The monitoring wells were installed based on the field screening results. Five groundwater monitoring wells, which were designated MW-1N through MW-5N, were installed in the North UST Area at soil boring locations B-1N through B-5N, respectively. All of the wells in the North UST Area were installed to 18 ft bg. Seven groundwater monitoring wells, which were designated MW-14S, and MW-18S through MW-20S, were installed in the South UST Area at soil boring locations B-11S through B-14S, and B-18S through B-20S, respectively. The depths of the monitoring wells in the South UST Area ranged between 18 and 19 ft bg. Monitoring well construction logs are provided in Appendix A.

The ground surface and top of well casing elevation of each well were surveyed. Elevations were measured to the nearest 0.01 foot relative to an assumed on-site datum. Well construction details and the elevation data for each well are summarized in Table 1.

#### 3.3 Soil Quality

The analytical data for soil samples are summarized in Table 2, the laboratory data sheets for soil samples are provided in Appendix B. The soil analytical data for the North and South UST Areas is also posted on Figures 3A and 3B, respectively. The analytical results are discussed below.

## North UST Area

A total of 14 TCLP VOCs were detected. As shown in Table 2 and on Figure 3, 13 of the VOCs detected exceeded their respective NYSDEC STARS Guidance Values. With the exception of 1,2,4-trimethybenzene detected in sample B-1N (9-10'), VOCs that exceeded their NYSDEC Guidance Values were limited to sample B-2N (11-12') and B-4N (11-12').

Although the concentrations of methyl tertiary-butyl ether (MTBE) that were determined using the TCLP method of analysis did not exceed its NYSDEC Guidance Values, the concentration of total MTBE exceeded the NYSDEC Soil Cleanup Objective (SCO) of 120 ug/kg (Technical Administrative Guidance Memorandum No. 4046 (TAGM 4046) and the STARS Alternative Guidance Value of 200 ug/kg. The concentrations of MTBE detected in soil samples B-2N (11-12'), B-6N (9-10'), and B-7N (11-12') at concentrations of 564 ug/kg, 367 ug/kg, and 457 ug/kg, respectively, exceed the NYSDEC SCO and Alternative Guidance Value for MTBE.



Six SVOCs were detected in soil samples from the North UST Area. It is noted that naphthalene was reported as a VOC rather than a SVOC. No other SVOCs were detected above the Guidance Values.

Lead was detected at low concentrations in soil samples collected from four of the seven soil borings in the North UST Area. None of the concentrations of lead exceeded the United States Environmental Protection Agency's Interim Lead Hazard Guidance of 400 milligrams per kilogram (mg/kg).

## South UST Area

A total of 11 TCLP VOCs were detected in soil samples from the South UST Area. As shown in Table 2 and on Figure 3, benzene, 1,2,4-trimethylbenzene, p-isopropyl-toluene, naphthalene, and MTBE exceeded their respective NYSDEC Guidance Values. These VOCs were detected at elevated concentrations in soil samples B-11S (8-9'), B-13S (8-9'), B-14S (8-9'), and B-17S (8-9'). Total MTBE was detected in soil boring B-13S at a concentration of 2,790 ug/kg, which exceeds the NYSDEC SCO and Alternative Guidance Value.

Lead was detected at low concentrations in all of the soil samples collected from the 10 soil borings in the South UST Area. None of the concentrations of lead exceeded the United States Environmental Protection Agency's Interim Lead Hazard Guidance of 400 mg/kg.

## 3.4 Groundwater Monitoring

Groundwater monitoring included fluid gauging and collection of groundwater samples. The results of these activities are described below.

## 3.4.1 Fluid-Level Gauging and Groundwater Flow

JWC personnel measured fluid levels in each of the monitoring wells on a weekly basis from January 18, 2001 through May 17, 2001. The fluid level gauging results are summarized in Table 3. Using the surveyed measuring point elevation of each well, the depth to water measurements were converted to elevations relative to the assumed on-site datum. The water table elevations from the February 7, 2001 and May 17, 2001 gauging events were subsequently posted on the site plan map to evaluate the direction of groundwater flow (Figure 4). The groundwater elevation data presented on Figure 4 does not indicate a predominant flow direction, and accordingly, the data was not contoured.

## 3.4.2 Groundwater Quality

Groundwater sampling was performed by JWC on February 7 and 8, 2001. As part of the groundwater monitoring program, water-quality parameters were measured in the field (field parameters) during sampling, and groundwater samples were collected for laboratory analysis. The results of the field parameter measurements and the groundwater sample analytical results are discussed below.

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#### **3.4.2.1 Field Parameters**

The field parameters included pH, temperature, specific conductance, turbidity, dissolved oxygen (DO), and oxidation reduction potential (ORP). The field parameter measurements are summarized in Table 4. The first four of these parameters were measured primarily as indicators that purging of the well was complete, and to assess the overall quality of the water. Whereas, DO and ORP were measured to evaluate the overall water quality and to assess the occurrence of biological activity.

The results in Table 4 show that pH ranged from 6.69 standard units (s.u.) in well MW-11S to 7.75 (s.u.) in well MW-3N. Temperature ranged from 13.28 °C in well MW-18S to 16.46 °C in well MW-11S. Specific conductance ranged from 1,404 microhos per centimeter (umhos/cm) in well MW-19S to 8,310 umhos/cm in well MW-20S. Turbidity ranged from 7.33 nephelometric turbidity units (ntu) in well MW-5N to 1,980 ntu in well MW-1N. Dissolved oxygen ranged from 0.15 milligrams per Liter (mg/L) in well MW-12S to 3.46 mg/L in well MW-19S. The ORP ranged from -138 millivolts (mV) in well MW-19S to -357 mV in well MW-11S.

The field parameters show that the overall water quality is characterized by cirum-neutral pH, and is anaerobic to mildly aerobic. The absence of DO has produced reducing conditions.

## 3.4.2.2 Groundwater Analytical Results

Groundwater analytical results are summarized in Table 5 and the laboratory data sheets for the groundwater samples are provided in Appendix C. The groundwater analytical data for the North and South UST Areas are also posted on Figures 5A and 5B, respectively. The analytical results are discussed below.

#### North UST Area

Due to the detection of SPP in monitoring well MW-4N, a groundwater sample was collected from this well.

Thirteen VOCs were detected in groundwater in the North UST Area. Except for MTBE, all of the VOCs were detected in monitoring well MW-1N, which is located immediately adjacent to the former USTs in this area of the site. All of the VOCs detected in monitoring well MW-1N exceeded their respective NYSDEC GWQC. The concentration of MTBE detected in monitoring well MW-3N also exceeded the NYSDEC GWQC.

Nine SVOCs were detected in groundwater. No SVOCs were detected at concentrations that exceeded their respective NYSDEC GWQC.

Lead was detected at concentrations that exceeded its NYSDEC GWQC and ranged from less than the MDL in well MW-5N to 507 ug/l in well MW-1N.



## South UST Area

Excluding methylene chloride and chloroform, common laboratory contaminants, 13 VOCs were detected in groundwater in the South UST Area. All of the VOCs, including MTBE that were detected in monitoring wells MW-11S and MW-14S, exceeded their respective NYSDEC GWQC. Both of these wells are located immediately downgradient from the former USTs in the South UST Area. The concentrations of MTBE and 1,2,4-trimethylbenzene detected in monitoring well MW-12S were 198 ug/l and 6.4 ug/l, which exceed the MTBE NYSDEC GWQC for these compounds. No VOCs were detected in downgradient monitoring wells MW-18S through MW-20S.

Groundwater samples collected from monitoring wells in the South UST Area were not analyzed for SVOCs.

Lead was detected in three of the seven groundwater monitoring wells in the South UST Area. The concentration of lead in monitoring well MW-11S exceeded the NYSDEC QWC. The lead concentrations in groundwater at wells MW-12S, MW-13S, MW-14S and MW-19S were below the NYSDEC GWQC for lead. Lead was not detected in monitoring wells MW-18S and MW-20S.

## 3.5 Investigation-Derived Waste Data and Disposal

Waste material generated during the site characterization included liquid waste such as well development water, decontamination fluids, and purge water, and solids that included soil cuttings, disposable personal protective equipment and debris. Excluding recovered product, analytical results for waste material generated during the site characterization showed that the waste material was non-hazardous. The waste was transported and disposed at a licensed disposal facility. The waste characterization analytical results are provided in Appendix D.

## 3.6 Summary of Site Characterization Results

The results of the site characterization are summarized below.

- The water table at the site occurs at approximately 12 ft bg and is generally flat.
- Soil in the immediate vicinity of the former USTs in the North UST Area contained multiple VOCs and naphthalene at concentrations that exceeded their respective NYSDEC STARS Guidance Values. The majority of the petroleum-impacted soil was observed in soil borings B-2N and B-4N, with less extensive contamination occurring at soil boring B-1N and B-3N.
- Soil in the immediate vicinity of the former USTs in the South UST Area contained benzene, 1,2,4trimethylbenzene, p-isopropyltoluene, and naphthalene at concentrations that exceeded their respective NYSDEC STARS Guidance Values. The petroleum-impacted soil was limited to the vicinity of soil borings B-11S, B-13S, B-14S, and B-17S.

- SPP that ranged in thickness from less than 0.01 feet to 0.26 feet was detected in monitoring well MW-4N. The results of the petroleum product fingerprint analysis for the SPP in monitoring well MW-4N showed the product to be gasoline. SPP was detected once during the five-month period of weekly gauging in monitoring well MW-14S. The SPP thickness of 0.01 feet in MW-14S was detected on April 5, 2000.
- With the exception of MTBE, the concentration VOCs and SVOCs detected in groundwater in the North UST Area that exceeded their respective NYSDEC GWQC were limited to monitoring well MW-1N. The concentration of MTBE detected in monitoring well MW-3S exceeded its NYSDEC GWQC. No SVOCs were detected above the NYSDEC GWQC.
- With the exception of MTBE, the concentration VOCs and SVOCs detected in groundwater in the South UST Area that exceeded their respective NYSDEC GWQC were limited to monitoring wells MW-11S, MW-12S, and MW-14S. Lead was detected in monitoring well MW-11S at a concentration that exceeded its NYSDEC GWQC.

## 4.0 FILE REVIEW

## 4.1 File Review Documents

To facilitate this evaluation, a Freedom of Information Law (FOIL) review was conducted of available files provided by the NYSDEC for the subject site and the Mendon Truck Leasing Facility. The following documents, presented in chronological order, were reviewed:

- NYSDEC Spill Report Form, Spill No. 9605014, Con Edison, July 17, 1996.
- NYSDEC Spill Report Form, Spill No. 9608854, Con Edison, October 16, 1996.
- NYSDEC Spill Report Form, Spill No. 9702563, Con Edison, May 30, 1997.
- Correspondence to NYSDEC, Site Assessments for Underground Storage Tank Closures at Con Edison's Third Avenue Yard, Con Edison, February 10, 1997.
- NYSDEC Spill Report Form, Spill No. 9800967, Mendon Truck Leasing, April 22, 1998.
- Corrective Action Investigation Plan for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., May 18, 1998.
- Corrective Action Plan Report for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., June 1998.
- NYSDEC Petroleum Bulk Storage Facility Information Report, Mendon Leasing Corp., June 17, 1998.
- Correspondence to NYSDEC, Petroleum Bulk Storage Facility Modifications, Con Edison, April 2, 1998.
- Stipulation Agreement for the Mendon Truck Leasing Facility, June 22, 1998.
- NYSDEC Spill Report Form, Spill No. 9808009, Con Edison, September 30, 1998.
- Water Level Monitoring and Product Bailing Results for Mendon Truck Leasing Month of September, Liro-Kassner, Inc., October 1, 1998.
- Water Level Monitoring and Product Bailing Results for Mendon Truck Leasing Month of October, Liro-Kassner, Inc., October 30, 1998.
- Water Level Monitoring and Product Bailing Results for Mendon Truck Leasing Month of November, Liro-Kassner, Inc., December 11, 1998.
- Water Level Monitoring and Product Bailing Results for Mendon Truck Leasing Month of December, Liro-Kassner, Inc., January 7, 1999.
- NYSDEC Spill Report Form, Spill No. 9812500, Con Edison, January 9, 1999.
- Corrective Action Monitoring Report for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., August 1999.
- Corrective Action Monitoring Report for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., December 1999.
- Corrective Action Monitoring Report for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., February 2000.
- Corrective Action Monitoring Report for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., March 2000.
- Corrective Action Monitoring Report for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., April 2000.





- Corrective Action Monitoring Report for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., May 2000.
- Corrective Action Monitoring Report for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., June 2000.
- Corrective Action Report and Site Closure Proposal for the Mendon Truck Leasing Facility, Liro-Kassner, Inc., July 2000.
- Correspondence To NYSDEC, UST Closure Summary, Con Edison, July 24, 2000.
- NYSDEC Petroleum Bulk Storage Facility Information Report, Parkside Service Center, Inc., August 29, 2000.
- Correspondence to NYSDEC, Mendon Truck Leasing Facility Remediation System, Liro-Kassner, Inc., September 1, 2000.
- Correspondence to Con Edison, Third Avenue Yard UST Closure Summary and Site Investigation Workplan, NYSDEC, September 11, 2000.

Details of the review for the above documents are provided below.

## 4.2 File Review Results

A review of available documents, provided by the NYSDEC, for the Con Edison Third Avenue Yard and the Mendon Truck Leasing Facility, was completed to assist in evaluating the likelihood as to whether petroleum constituents from the subject site have migrated to the Mendon Truck Leasing Facility. Provided below are the results of this review.

## Spill & Petroleum Bulk Storage Reports

The report for Spill No. 9695014 was related to contaminated soil being encountered in the vicinity of the gasoline USTs at the Con Edison Third Avenue Yard facility. For Spill No. 9608854, elevated levels of VOCs were observed while installing a well for a UST tightness test. For Spill No. 9702563, a vehicle was apparently overfilled during fueling, resulting in a release to the ground surface. For Spill No. 9808009, the NYSDEC was notified of a spill because of apparent gasoline-impacted soil being encountered during the removal of the gasoline USTs at the site in 1998. Consequently, since the release was UST related, the NYSDEC cross-referenced Spill No. 9808009 to Spill No. 9605014. For Spill No. 9812500, an apparent diesel fuel sheen was reported in a trench where a contractor was installing a new gas fuel line. The April 2, 1998 correspondence provided an update of the Petroleum Bulk Storage registration reflecting the planned closure of the USTs at the Con Edison Third Avenue Yard.

For Spill No. 9800967, contaminated soil was encountered during the removal of USTs at the Mendon Truck Leasing Facility. The PBS Facility Information Report indicated that the Mendon Truck Leasing Facility had closed 10 550-gallon diesel fuel USTs and two 550-gallon gasoline USTs. The diesel fuel USTs were closed in April 1998, with the date of closure for the gasoline USTs not being defined.

The PBS Facility Information Report for the Parkside Service Center indicated that one 4,000-gallon and 11 550-gallon gasoline USTs were closed in August 1994.

## Stipulation Agreement for the Mendon Truck Leasing Facility

Effective July 1, 1998, Retaco Holding Co., LLP entered into a Stipulation Agreement in connection with remediation at the Mendon Truck Leasing Facility. The Stipulation Agreement allowed implementation and operation of a remediation system without the need for NYSDEC permits.

## Water Level Monitoring and Product Bailing Reports for Mendon Truck Leasing Facility

Between September and December 1998, Liro-Kassner, Inc conducted monthly gauging and recovery of SPP by bailing. During the initial visit in September 1998, four of the on-site wells contained separate phase diesel fuel and gasoline ranging in thickness between 0.10 feet and 12.73 feet. By December 1998, the thickness of SPP within the wells at the Mendon Truck Leasing Facility ranged between 0.03 feet and 0.62 feet.

## Corrective Action Investigation and Plan Reports for Mendon Truck Leasing Facility

The June 1998 Corrective Action Plan Report included site investigation data for the Mendon Truck Leasing Facility, as well a plan for implementation of a dual-phase extraction (DPE) remediation system. Liro-Kassner, Inc. conducted the work on behalf of Retaco Holding Co., LLP.

As part of the related assessment activities, Liro-Kassner, Inc. installed 18 monitoring wells and conducted soil sampling at several of the associated borings. Liro-Kassner, Inc. identified that four of the monitoring wells at the Mendon Truck Leasing Facility contained separate phase diesel fuel and gasoline.

Based upon groundwater elevation data collected in June 1998, Liro-Kassner, Inc. reported that the local groundwater flow direction at the Mendon Truck Leasing Facility was generally to the west-southwest at a gradient of 0.005 feet/feet. JWC reviewed the elevation data provided in the Corrective Action Plan Report to evaluate the inconsistency between the lack of a predominant groundwater flow direction at the Con Edison Third Avenue Yard, and the apparent predominant flow direction at the Mendon Truck Leasing Facility. It appears that Liro-Kassner, Inc. omitted elevation data for two monitoring wells, which would drastically alter the apparent groundwater flow direction. The groundwater elevations for the two wells omitted, MW-2 and MW-10, which are located in the center of the property, were approximately four feet higher than the surrounding monitoring wells. This data indicates that there was considerable mounding in the center portion of the property essentially creating a groundwater divide. This would suggest that the local groundwater flow direction for the north and east portions of the site would be to the eastnortheast, and to the west-southwest for the south and west portions of the site.

Based upon a history of documented releases and elevated dissolved phase VOCs and SVOCs in the monitoring wells located at the Mendon Truck Leasing Facility property, Liro-Kassner, Inc. alleged that the Con Edison Third Ave Yard and the Parkside Service Center property were potential sources of contamination affecting the Mendon Truck Leasing Facility.



The northernmost boring and monitoring well locations situated on the Mendon Truck Leasing facility are depicted on Figure 2, which include B-6, B-13, MW-8, MW-9, MW-11, and MW-E3. A summary of the soil and groundwater data for these locations is provided below:

	S	oil	Groundwater						
Location	Total VOCs (ug/kg)	Total SVOCs (ug/kg)	Total VOCs (ug/l)	Total SVOCs (ug/l) NA					
B-6	16.2	1.05	NA						
B-13	ND	1,271	NA	NA					
MW-8	25,790	485,710	1,692	8,453					
MW-9	ND	ND	5	43					
MW-11	321	ND	6	ND					
MW-E3	NA	NA	198	1,093					

NA – not analyzed ND - not detected

The soil and groundwater VOC and SVOC concentrations for the locations situated along the northeast portion of the Mendon Truck Leasing Facility (B-6 & MW-11) are relatively low. Based upon the considerable distance of these locations relative to the former USTs at the Con Edison facility, this data suggests that potential petroleum related contamination situated at the Con Edison property is not likely affecting the northeast portion of the Mendon Truck Leasing Facility.

When comparing the soil and groundwater data for the locations situated along the northwestern portion of the Mendon Truck Leasing Facility (B-13, MW-8, MW-9 & MW-E3), it is clear that the SVOC concentrations are an order of magnitude greater compared to the VOC concentrations. Considering that the physical characteristics of SVOCs are less mobile compared to VOCs, JWC would expect the reverse to be true, especially since the alleged source of contamination at the Con Edison Third Avenue is a considerable distance away from these monitoring wells. If the local groundwater flow direction was in a west-southwesterly direction, the most upgradient locations in this portion of the Mendon Truck Leasing Facility relative to the Con Edison facility would be MW-9 and B-13. When comparing the soil and groundwater data for MW-9 and B-13 to the data for MW-8 and MW-E3, the VOC and SVOC concentrations for the upgradient locations are an order of magnitude lower. This suggests that the elevated VOCs and SVOCs are not likely attributable to contamination emanating from the Con Edison facility, but rather from an unidentified source situated on or adjacent to this portion of the Mendon Truck Leasing Facility.

# Corrective Action Monitoring Reports and Related Correspondence for the Mendon Truck Leasing Facility

The Corrective Action Monitoring reports prepared by Liro-Kassner, Inc. document the installation and operation of a DPE remediation system. The DPE system consisted of 24 wells connected to a common header, which in turn was connected to a liquid ring pump. The liquid ring pump generated a high vacuum to simultaneously remove liquids and vapors from each well. Vapors were treated with granular activated carbon and then to the atmosphere via a stack. The liquids were treated with an





oil/water separator followed by an air stripper, and then discharged to the New York City sanitary sewer system.

Operation of the remediation system was initiated on July 21, 1999, with full start-up commencing on August 16, 1999. The system was shut down in June 2000. Since the submittal of the Corrective Action Plan Report in 1998 to the NYSDEC, construction of Pep Boys and Staples retail stores was completed on the Mendon Truck Leasing Facility property by late 1999.

In July 1999, SPP was measured in four wells with thicknesses ranging between 0.02 feet and <u>1.47</u> feet. The SPP thickness in the wells generally decreased with time during operation of the system. In July 2000, none of the wells at the Mendon Truck Leasing Facility contained measurable SPP.

Within the July 2000 report, Liro-Kassner, Inc. again reiterated potential impact to the Mendon Truck Leasing Facility from off-site sources emanating from the Parkside Service Station Property and the Con Edison Third Avenue Yard. Liro-Kassner, Inc. specifically referred to a monitoring well containing elevated levels of VOCs located on the northeast portion of the Mendon Truck Leasing Facility, which is immediately adjacent to the Parkside Service Center. No elevated monitoring well results were noted as being attributable to the Con Edison facility. The northernmost monitoring wells discussed for the 1998 Corrective Action Plan Report for the Mendon Truck Leasing Facility were not sampled in 2000. Based upon JWC's review of the monitoring reports, no new data was provided to suggest that contaminants emanating from the Con Edison Third Yard have impacted the Mendon Truck Leasing Facility.

The September 1, 2000 correspondence, prepared by Liro-Kassner, Inc., indicated that the system remained shut down and that a "Letter of No Further Action" was anticipated from the NYSDEC. Confirmatory groundwater sampling was to be completed at the Mendon Truck Leasing Facility. This data was not available at the time of JWC's file review.

Site Assessment and Tank Closure Related Documents for the Con Edison Third Avenue Yard The February 10, 1997 correspondence, prepared by Con Edison, outlines the submittal to the NYSDEC of site assessments completed for each of the former UST areas at the Third Avenue Yard. The site assessments were completed prior to the removal of the USTs in 1998. The assessment results indicated petroleum impact to soil and groundwater in both UST areas.

The July 24, 2000 correspondence, prepared by Con Edison, outlines the submittal to the NYSDEC of a closure report for the removal of the two 2,500-gallon USTs and two 4,000-gallon USTs located on the northern and southern portions of the site, respectively. This submittal included a workplan for implementation of the site characterization for the area of the former USTs, which is the subject of this report.

The September 11, 2000 correspondence, prepared by the NYSDEC, provided comments to Con Edison related to the site characterization workplan. The NYSDEC indicated that the Mendon Truck Leasing Facility was located to the south of the Con Edison Third Avenue Yard, and dependent upon the outcome of the site characterization, additional downgradient delineation may be required.



## 5.0 CONCLUSIONS AND RECOMMENDATIONS

The site characterization was initiated in response to historical observations of petroleum-impacted soil and groundwater related to former operation of former UST systems located at the Con Edison Third Avenue Yard. The primary objectives of the characterization were to delineate the extent of contaminated soil and groundwater, and to evaluate the potential of off-site migration from petroleum constituents emanating from the former UST systems.

Based on the findings presented in this report, JWC has developed the conclusions listed below:

• A FOIL review of available documents provided by the NYSDEC for the Con Edison Third Avenue Yard and the Mendon Truck Leasing Facility was completed to assist in evaluating the likelihood as to whether petroleum constituents from the subject site have migrated to the Mendon Truck Leasing Facility.

The Corrective Action Plan Report prepared by Liro-Kassner, Inc. reported that the local groundwater flow direction at the Mendon Truck Leasing Facility was generally to the west-southwest. It appears that Liro-Kassner, Inc. omitted elevation data for two monitoring wells, which would drastically alter the apparent groundwater flow direction. The groundwater elevations for the two wells omitted, MW-2 and MW-10, which are located in the center of the property, were approximately four feet higher than the surrounding monitoring wells. This data indicates that there is considerable mounding in the center portion of the property essentially creating a groundwater divide. This would suggest that the local groundwater flow direction for the north and east portions of the Mendon Truck Leasing Facility would be to the east-northeast, and to the west-southwest for the south and west portions of the site.

The soil and groundwater quality data collected from borings and monitoring wells located on the northern portion of the Mendon Truck Leasing Facility, as outlined in the Corrective Action Plan Report prepared by Liro-Kassner, was reviewed. The data does not indicate migration of contaminants from the Con Edison Third Avenue Yard to the Mendon Truck Leasing Facility. Furthermore, the data indicates that the elevated VOCs and SVOCs along the northwestern portion of the Mendon Truck Leasing Facility may be attributable to an unidentified source situated on or adjacent to this portion of the Mendon Truck Leasing Facility.

- The groundwater elevation data for the Con Edison Third Avenue Yard does not indicate a predominant local groundwater flow direction.
- The soil quality data for the site characterization completed at the Con Edison Third Avenue Yard indicates that the SVOC concentrations for all boring locations were generally below STARS Memo No. 1 Guidance Values. The VOC concentrations for soil borings located in the vicinity of the Former South UST Area were generally below STARS Memo No. 1 Guidance Values. Soil samples collected from three borings located in the vicinity Former



North UST Area, B-1N, B-2N, and B-4N, contained VOCs exceeding STARS Memo No. 1 Guidance Values. The VOC results for the remaining boring locations in the vicinity of the Former North UST Area were below the Guidance Values.

• Gauging of the on-site wells indicated that one well located in the vicinity of the Former North UST Area, MW-4N, contained measurable SPP. The measurable SPP thickness ranged between 0.01 feet and 0.26 feet. Following implementation of the ongoing passive product recovery program, the SPP thickness for MW-4N has not been detected between visits. No other wells in the Former North UST Area contained SPP.

One monitoring well located in the South UST Area, <u>MW-14S</u>, contained SPP with a <u>thickness of 0.01 feet</u>. The detected SPP within MW-14S was an isolated occurrence on April 5, 2000. No other monitoring wells in the Former South UST Area contained SPP.

• The groundwater analytical data indicates that VOC levels exceeded the NYSDEC Ground Water Quality Standards for the monitoring wells located at the Con Edison Third Avenue Yard located in the vicinity of each UST area. However, the data suggests that the VOC impact is limited to the immediate vicinity of each UST area.

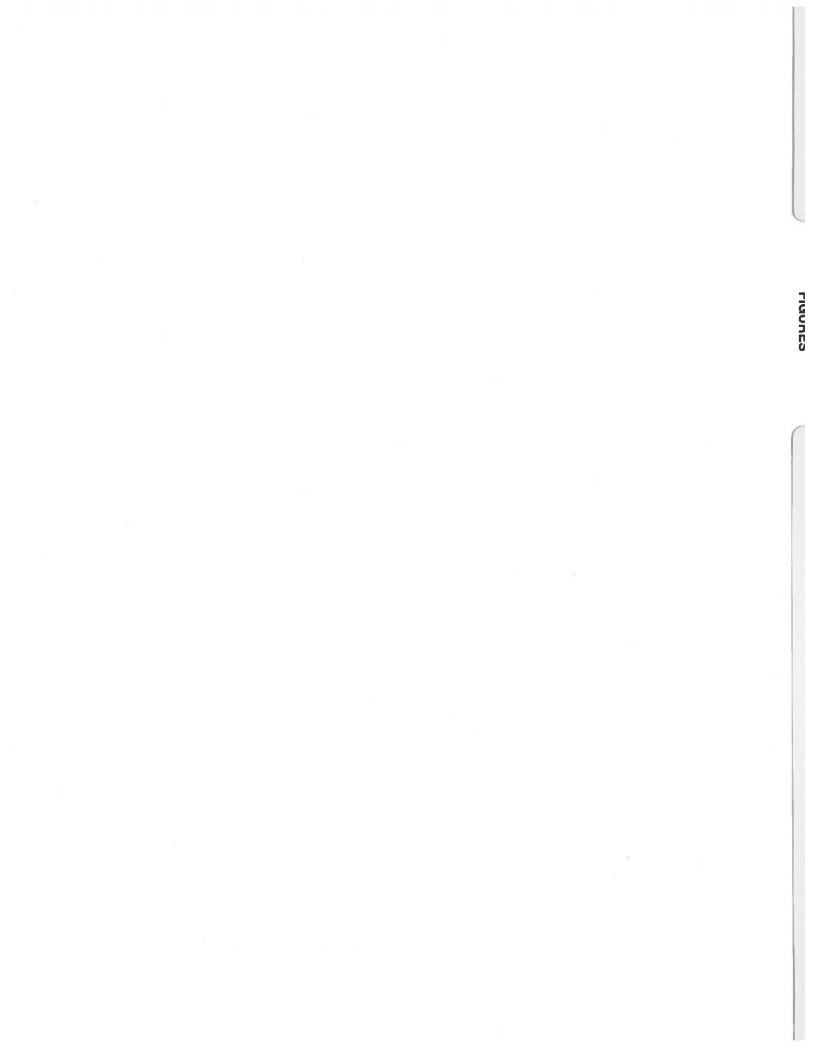
The monitoring wells located along the northern (MW-5N) and the southern (MW-18S, MW-19S & MW-20S) UST areas did not contain detectable concentration of VOCs. Consequently, there is no evidence of off-site migration of VOCs from the former USTs. SVOCs were also not detected in groundwater above the NYSDEC Ground Water Quality Standards for these wells.

Based upon the above conclusions, JWC has developed the following recommendations:

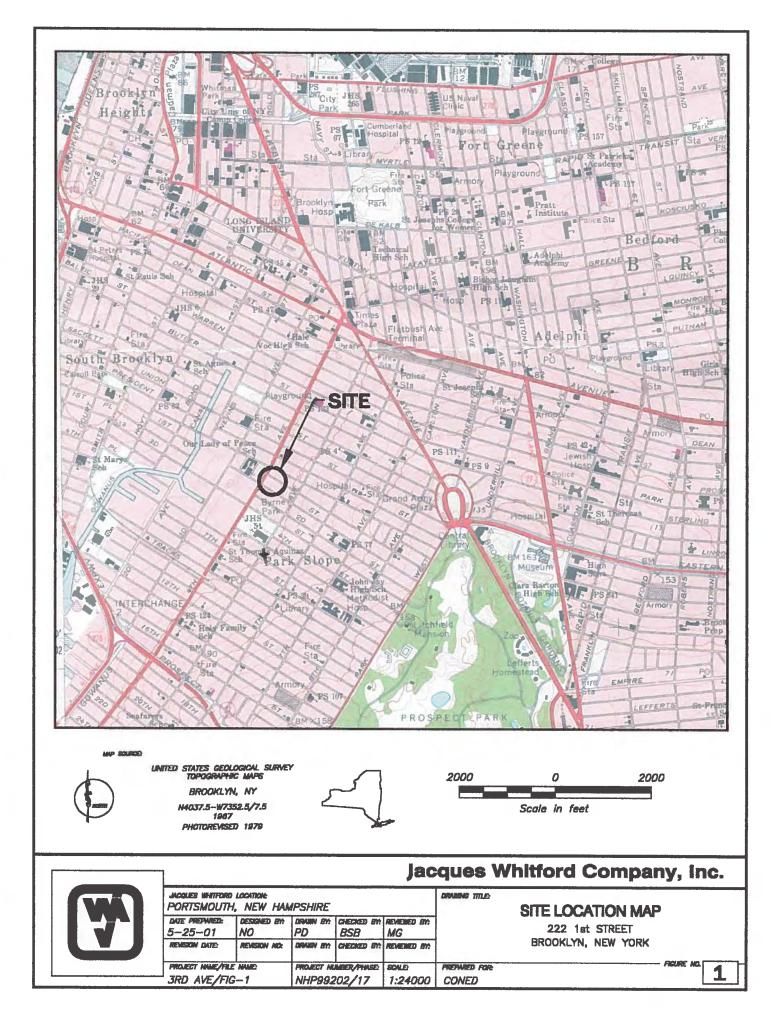
- A formal groundwater monitoring program should be implemented for the site as follows:
  - Monthly gauging of the on-site monitoring wells should be continued. If measurable SPP is detected, passive recovery by bailing and/or deployment of absorbent media. The frequency of gauging should be adjusted based upon the amount of SPP detected between visits.
  - Quarterly groundwater sampling of each on-site monitoring well for VOCs should be implemented.
- Additional groundwater delineation is warranted for the Former North UST Area. Specifically, two monitoring wells should be installed in this area to evaluate potential VOC impact to the west and northeast of the existing wells. No additional groundwater delineation is recommended for the South UST Area.

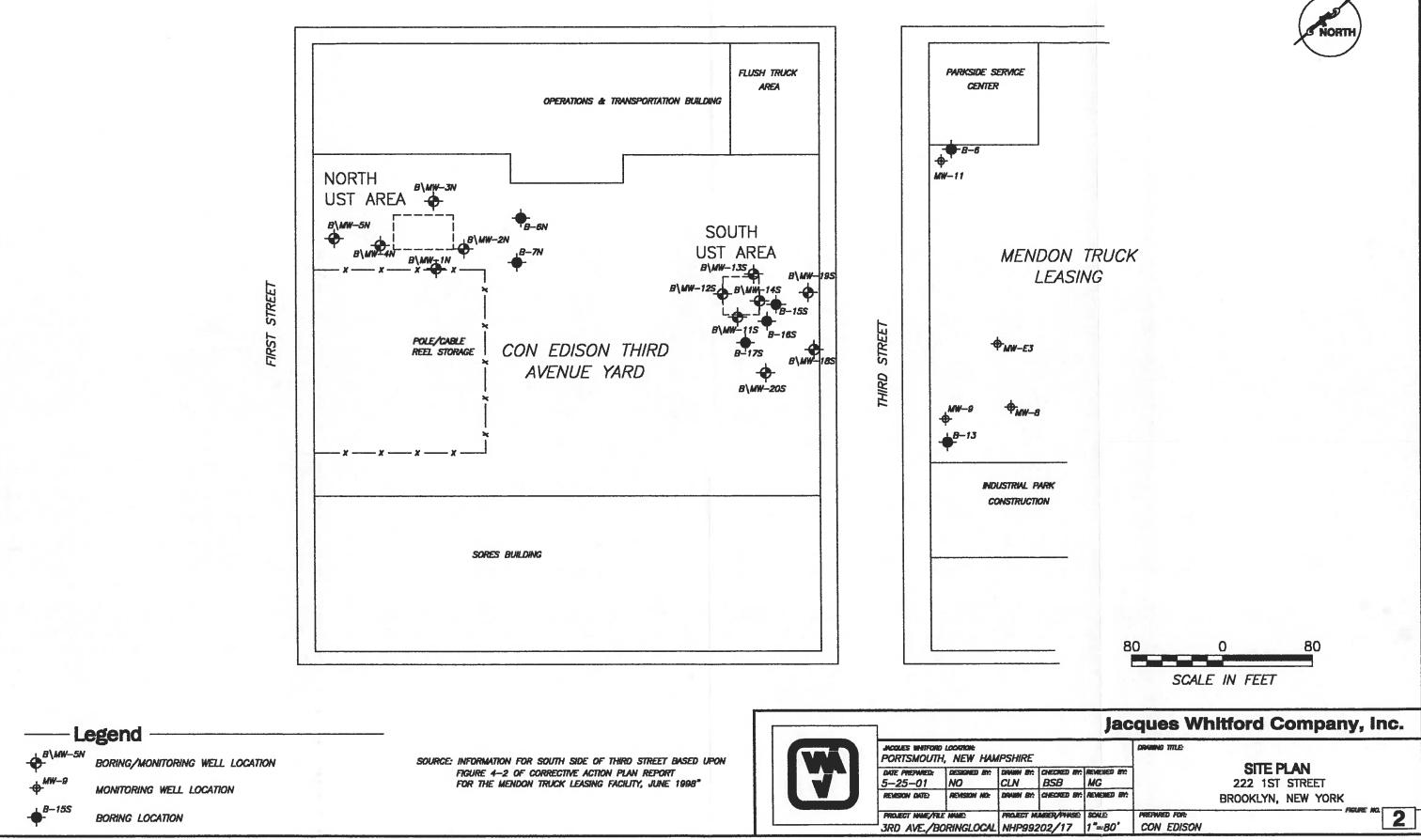
• Following implementation of the above recommendations, a Corrective Action Plan should be developed to outline appropriate remedial actions to address petroleum impact resulting from the former USTs at the site.

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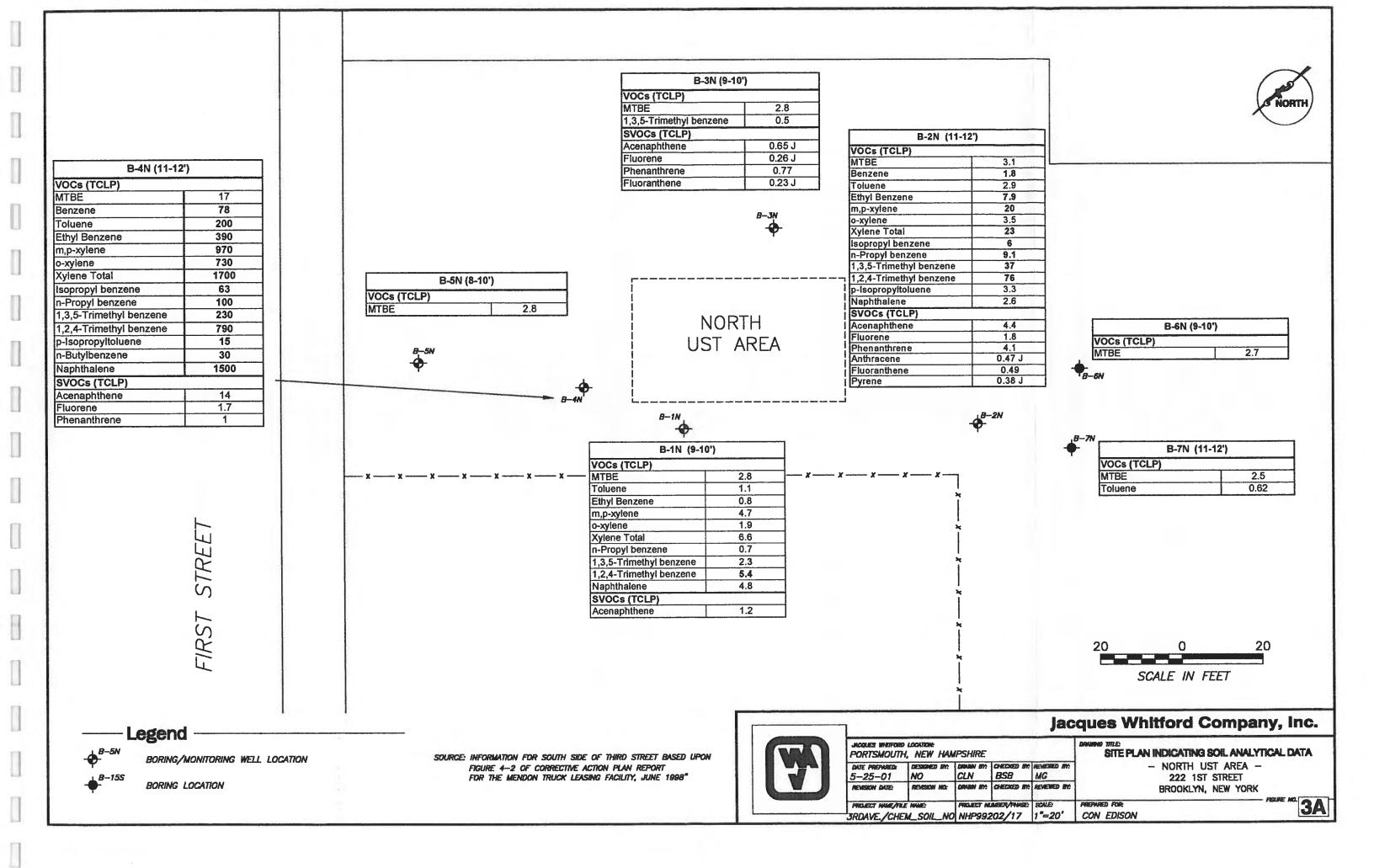






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B-13-S (8-9') VOCs (TCLP) 2.5 MTBE 92 Naphthalene SVOCs (TCLP) Acenaphthene 18 Fluorene 28 B-14-S (8-9') 43 Phenanthrene VOCs (TCLP) 7.9 Anthracene MTBE 6.2 and Fluoranthene 7.6 Benzene 1 / Pyrene 4.5 1.5 Ethyl Benzene Benzo(a)anthracene 0.27 J m,p-xylene 1.7 0.22 J Chrysene Xylene Total 1.7 85 Naphthalene 1.4 Isopropyl benzene n-Propyl benzene 2.1 B–13S 1,3,5-Trimethyl benzene 1.1 p-isopropyltoluene 6.9 SOUTH Naphthalene 8 Y UST AREA 8-195 Ð B-125 B-12-S (10-11') VOCs (TCLP) MTBE 2.6 B--15S 1,3,5-Trimethyl benzene 1.9 B-15-S (8-9') 1.2.4-Trimethyl benzene 0.7 VOCs (TCLP) 5.4 Naphthalene B-115 MTBE 1,3,5-Trimethyl benzene B-11S (8-9') B-165 Naphthalene VOCs (TCLP) MTBE 3.8 B-16S (9-10') 1.5 Ethyl Benzene VOCs (TCLP) m,p-xylene 1.5 MTBE 1.6 0.8 o-xylene B-175 2.3 Xylene Total B-17S (8-9') 0.6 isopropyl benzene • VOCs (TCLP) B-185 n-Propyl benzene 1.3 1,3,5-Trimethyl benzene 1.9 MTBE 3.2 5.4 1,2,4-Trimethyl benzene m,p-xylene 1.8 50 Naphthalene **Xylene Total** 1.8 1,2,4-Trimethyl benzene 1.7 Naphthalene 27 🕒 B-20S

CON EDISON THIRD AVENUE YARD

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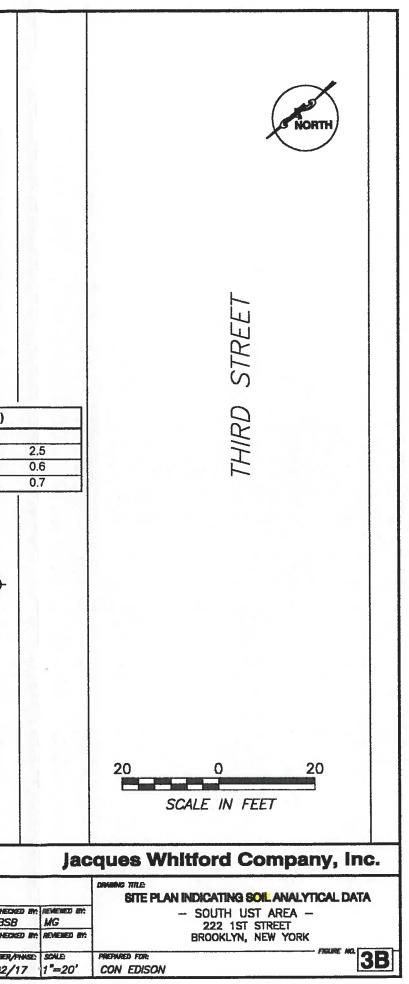
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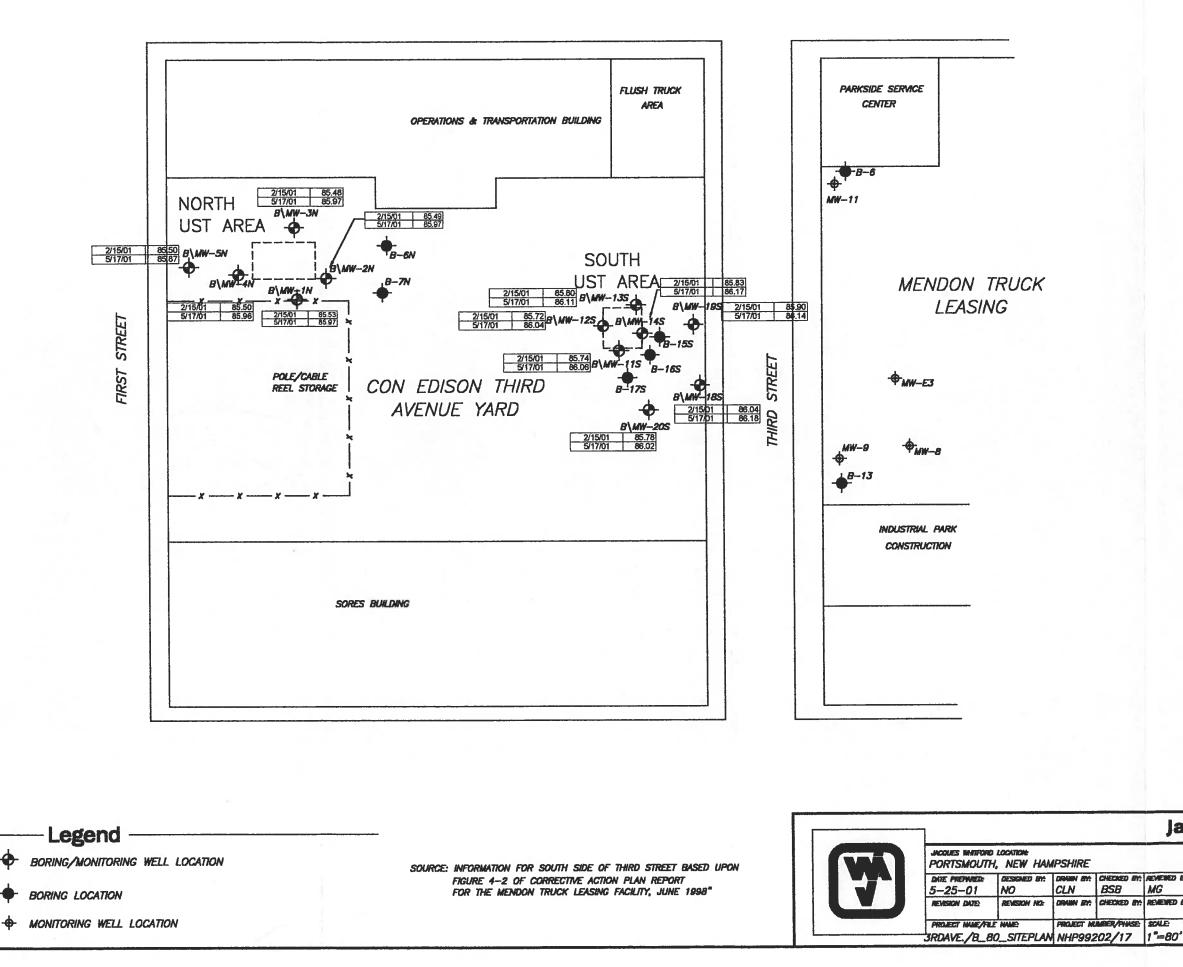


Source: Information for South side of third street based upon Figure 4–2 of corrective action plan report for the mendon truck leasing facility, june 1998"



MODULES INHITORD LOCATION: PORTSMOUTH, NEW HAMPSHIRE												
	DESIGNED BY:	CLN	CHR B									
	REVISION NO:	DRIVIN BY:	CH									
 PROJECT NUME/FILE 3RDAVE./CHEI	PROJECT NO NHP992											





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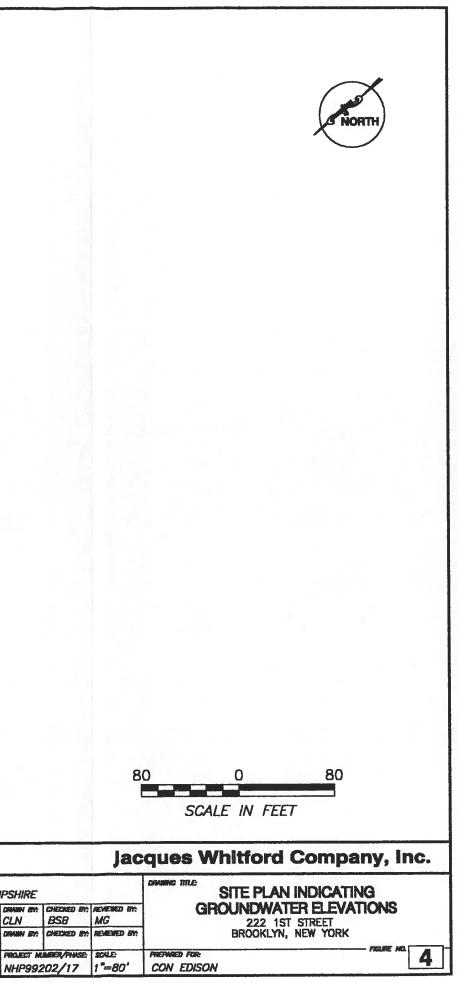
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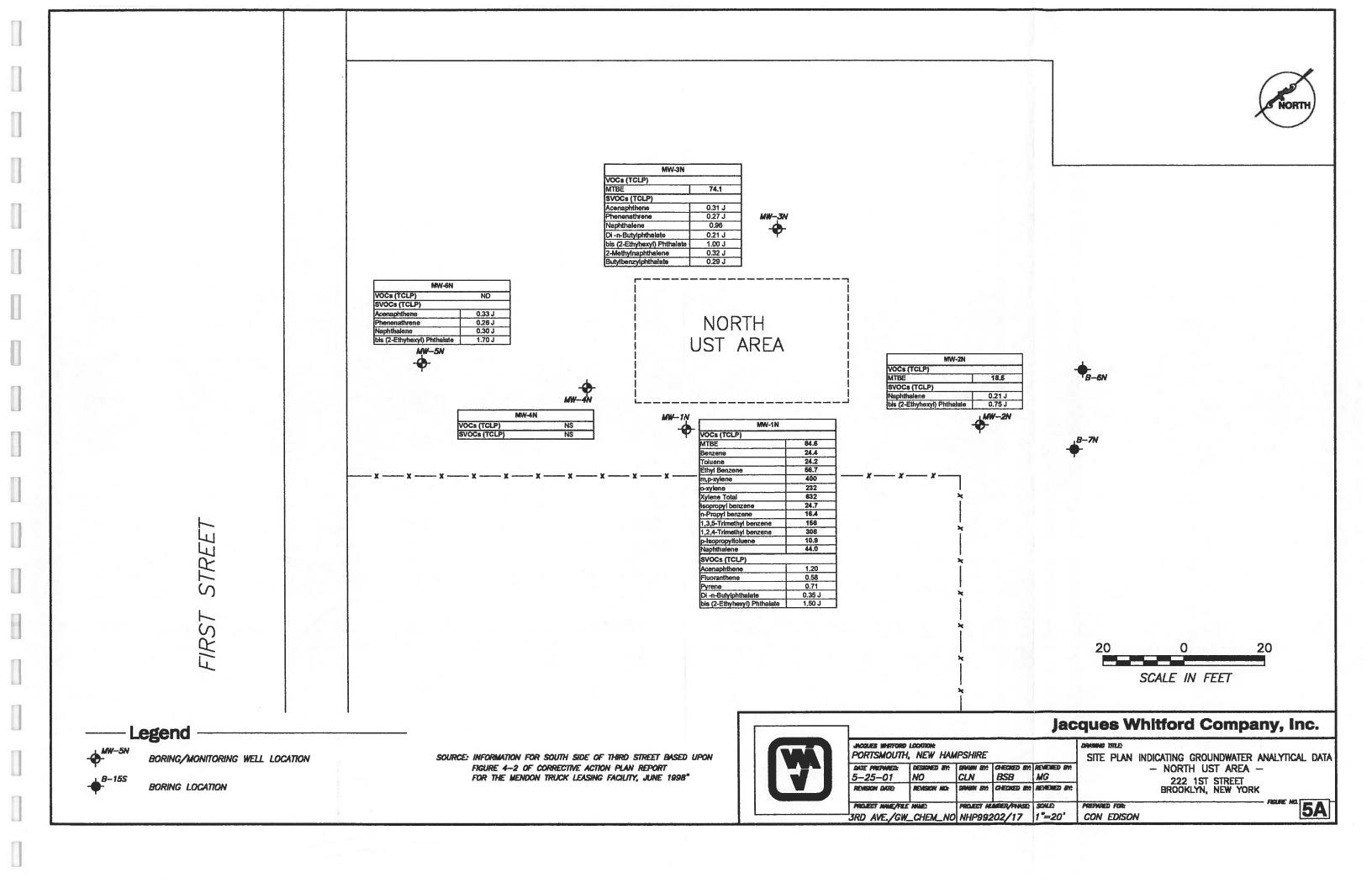
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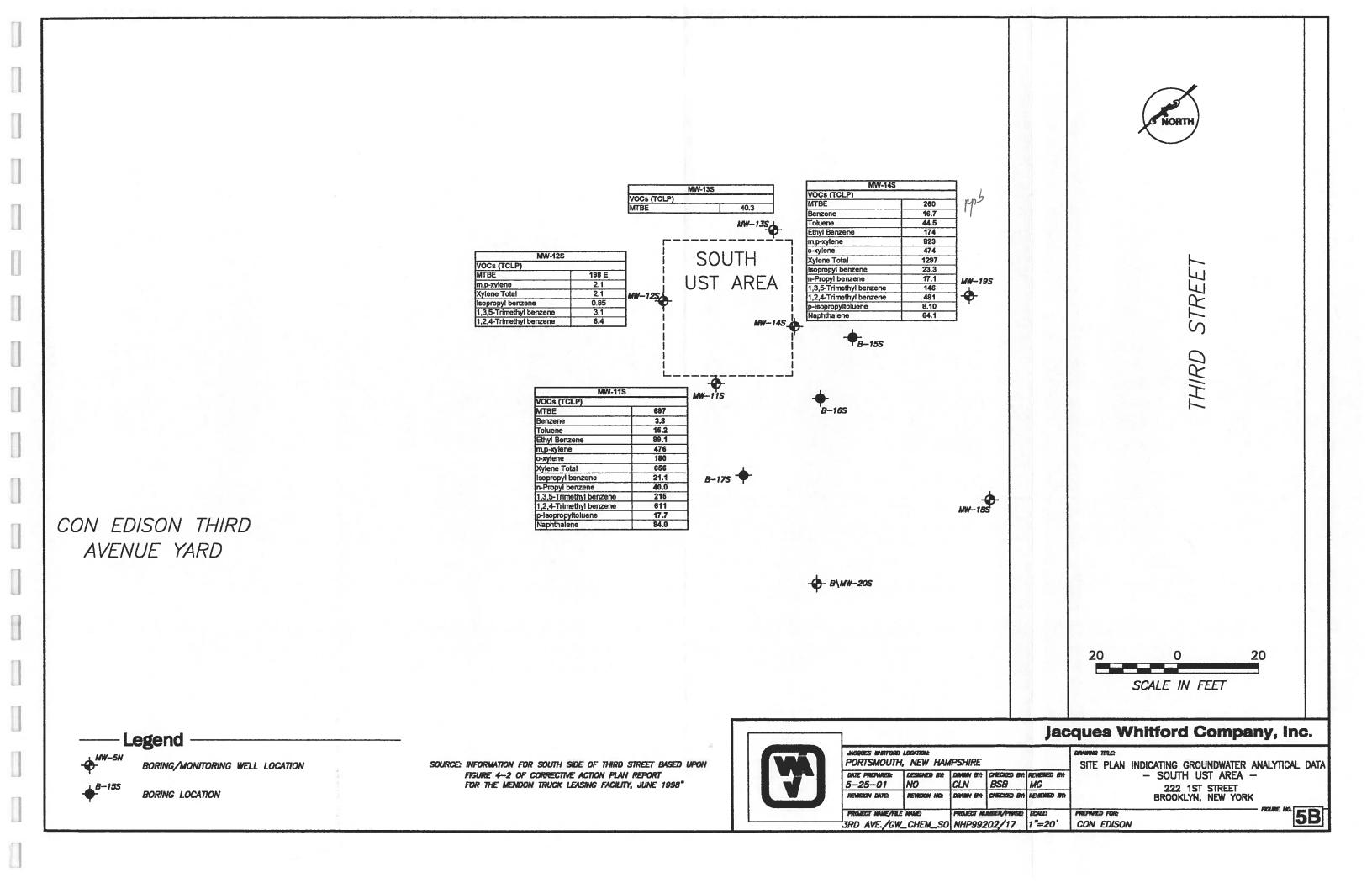
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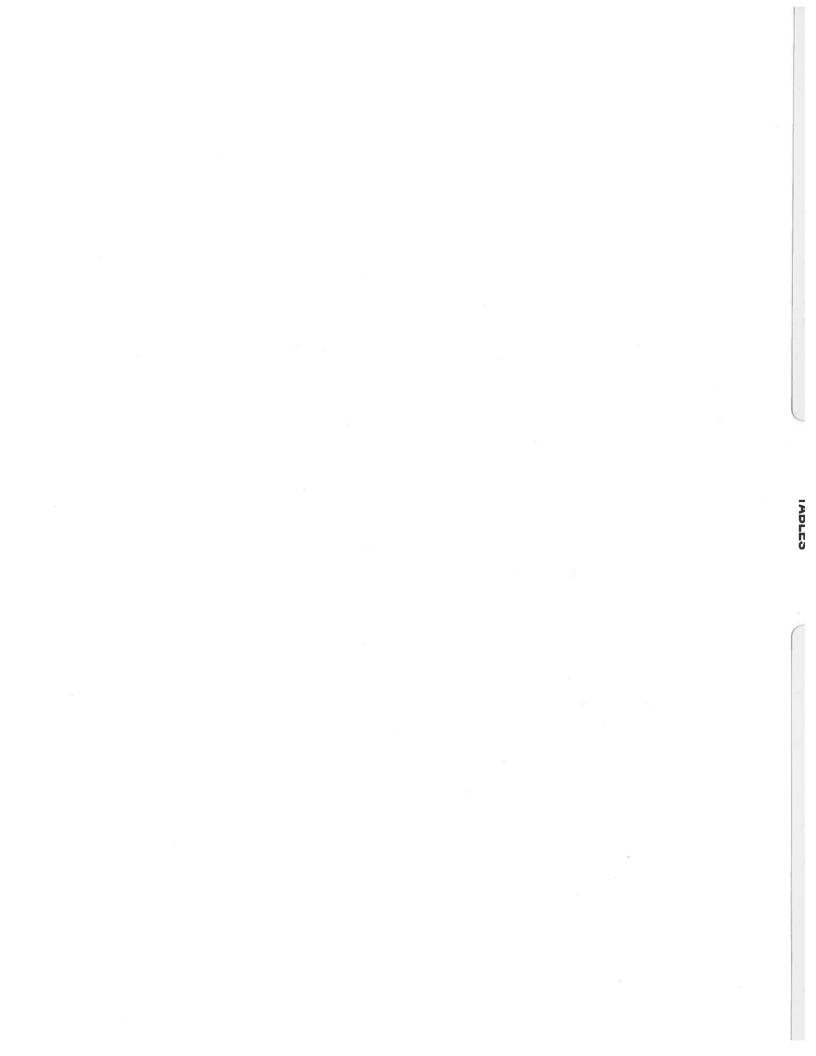
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		Eleva	ations	Elevations					
Well No.	Date of Installation	Ground Surface	Top of PVC	Total Depth (ft bg)	Depth to Scree (ft b		Elevation of Screened Interv (ft AD)		
		(ft AD)	(ft AD)		Bottom	Тор	Bottom	Тор	
MW-1N	12/13/00	97.94	97.62	18.0	18	8	79.9	89.9	
MW-2N	12/14/00	98.30	97.95	18.0	18	8	80.3	90.3	
MW-3N	12/13/00	98.14	97.69	18.0	18	8	80.1	90.1	
MW-4N	12/14/00	97.64	97.24	18.0	18	8	79.6	89.6	
MW-5N	12/13/00	97.44	97.05	18.0	18	8	79.4	89.4	
MW-11S	12/14/00	98.07	97.69	19.0	19	4	79.1	94.1	
MW-12S	12/14/00	98.15	97.78	18.0	18	8	80.2	90.2	
MW-13S	12/14/00	98.08	97.70	19.0	19	4	79.1	94.1	
MW-14S	12/15/00	97.73	97.33	19.0	19	9	78.7	88.7	
MW-18S	12/14/00	97.79	96.83	18.0	18	8	79.8	89.8	
MW-19S	12/14/00	97.79	97.36	18	18	8	79.8	89.8	
MW-20S	12/15/00	96.95	96.64	18	18	8	79.0	89.0	

#### NOTES:

Wells were surveyed on 1/18/01 and 1/25/01.

ft AD = Feet above Assumed Datum. (X chiseled on 3rd street entrance guard shack concrete pad = 100.00').

ft bg = Feet below grade

PVC = Top of PVC well riser

TABLE 2
SUMMARY OF SOIL ANALYTICAL DATA-PRELIMINARY SOIL BORINGS
CON EDISON THIRD AVENUE YARD
<b>BROOKLYN, NEW YORK</b>

	Labora	tory ID:	11784-05	11784-04	11784-01	11784-06	11784-02	11784-20	11784-03	11784-07	11784-08	11784-11	11784-12	11784-13	11784-14	11784-15	11784-21	11784-16	11784-10	11784-09	11784-17	11784-18	11784-19
	F	field ID:	Equip Blank	Trip Blank	B-1N	B-2N	B-3N	B-4N	B-5N	B-6N	B-7N	B-115	B-12S	B-13S	B-14S	B-15S	B-16S	B-17S	B-18S	B-19S	B-20S	Equip Blank	Equip Blank
	Sample	Depth*:		-	9-10	11-12	9-10	11-12	8-10	9-10	11-12	8-9	10-11	8-9	8-9	8-9	9-10	8-9	10-12	10-11	8-9	-	
VOCs (TCLP)	STARS CR																				ND	ND	ND
MTBE	10	ppb	ND	ND	2.8	3.1	2.8	17	2.8	2.7	2.5	3.8	2.6	2.5	6.2	2.5	1.6	3.2	2.7	2.6	ND	ND ND	ND ND
Benzene	0.7	ppb	ND	ND	ND	1.8	ND	78	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND ND	ND	ND
Toluene	5	ppb	ND	ND	1.1	2.9	ND	200	ND	ND	0.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ppb	ND	ND	0.8	7.9	ND	390	ND	ND	ND	1.5	ND	ND_	1.5	ND	ND	ND	ND	ND	NR	NR	NR
m-xylene	5	ppb	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR NR	NR	NR
p-xylene	5	ppb	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR ND	NR ND	ND NR
m,p-xylene		ppb	ND	ND	4.7	20	ND	970	ND	ND	ND	1.5	ND	ND	1.7	ND	ND	1.8	ND	ND	ND	ND	ND
o-xylene	5	ppb	ND	ND	1.9	3.5	ND	730	ND	ND	ND	0.8	ND	ND	ND	ND	ND_	ND	ND ND	ND ND	ND	ND ND	ND
Xylene Total		ppb	ND	ND	6.6	23	ND	1700	ND	ND	ND	2.3	ND	ND	1.7	ND	ND	1.8 ND	ND	ND ND	ND	ND	ND
Isopropyl benzene	5	ppb	ND	ND	ND	6	ND	63	ND	ND	ND	0.6	ND	ND	1.4	ND ND	ND ND	ND ND	ND	ND ND	ND	ND	ND
n-Propyl benzene	5	ppb	ND	ND	0.7	9.1	ND	100	ND	ND	ND	1.3	ND	ND	2.1		ND ND	ND ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl benzene	5	ppb	ND	ND	2.3	37	0.5	230	ND	ND	ND	1.9	1.9	ND	1.1	0.6 ND	ND ND	ND	ND	ND	ND	ND	ND
tert-Butyl benzene	5	ppb	ND	ND	ND	ND	ND	ND	ND_	ND	ND	ND	ND	ND	ND_ND	ND	ND	1.7	ND	ND	ND	ND	ND
1,2,4-Trimethyl benzene	5	ppb	ND	ND	5.4	76	ND	790	ND	ND	ND	5.4	0.7 ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ppb	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND	ND ND	6.9	ND ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ppb	ND	ND	ND	3.3	ND	15	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ppb	ND	ND	ND	ND	ND	30	ND	ND ND	ND	50	5.4	92	8	0.7	ND	27	ND	ND	1.2	ND	ND
Naphthalene	_10	ppb	ND	ND	4.8	2.6	ND	1500	ND		ND	50	5.4	96	0	0.7			TID				
SVOCs (TCLP)	STARS CH	RITERIA									ND	NA	NA	18	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ppb	NA	NA	1.2	4.4	0.65 J	14	ND	ND		NA	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	50	ppb	NA	NA	ND	1.8	0.26 J	1.7	ND	ND ND	ND ND	NA NA	NA	43	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	50	ppb	NA	NA	ND	4.1	0.77	1	ND	ND ND	ND	NA NA	NA	7.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ppb	NA	NA	ND	0.47 J	ND	ND	ND	ND	ND	NA	NA	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ppb	NA	NA	ND	0.49	0.23 J	ND	ND	ND	ND	NA	NA	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	50	ppb	NA	NA	ND	0.38 J	ND	ND	ND ND	ND	ND ND	NA	NA	0.27 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ppb	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	0.27 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ppb	NA	NA	ND	ND	ND	ND ND	ND	ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.002	ppb	NA	NA	ND	ND	ND		ND	ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.002	ppb	NA_	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.002	ppb	NA	NA	ND	ND	ND	ND		ND ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3,-cd)pyrene	0.002	ppb	NA	NA	ND	ND	ND	ND	ND ND	ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	50	ppb	NA	NA	ND	ND	ND	ND ND	ND	ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	0.002	ppb	NA	NA	ND	ND	ND		UN .		ND	INA	INA	IL.	114	1471		+		1	<u> </u>		
OTHER	STARS C	RITERIA	-				-	1	110	367	457	76.2	79.8	2790	63.1	124	3.87	14.8	54.9	8.26	3.14	NA	NA
MTBE		ppb	NA	NA	26.8	564	20.7	ND	31.2 ND	18.4	15.5	39.6	12.7	3.97	124	4.28	82.9	36.5	13.4	26.4	11.4	NA	NA
LEAD		ppm	NA	NA_	4.26	ND	8.52	135		10.4	15.5	59.0	14./	1 3.57	1 124	7.20	1 02.7	30.5	10.1				

NOTES:

All concentrations reported in parts per billion (ppb) = micrograms per liter (ug/L) = micrograms per kilogram (ug/kg) ND = not detected above method detection limit (MDL)

NA = not analyzed

J = Estimated value. The concentration reported was below the method detection limit. NR = Not reported in that format

\* In feet below grade (b.g.)

TABLE 3
MONITORING WELL GROUNDWATER LEVELS
CON EDISON THIRD AVENUE YARD
BROOKLVN NEW VORK

and of the	montion in the	Det	Danah da durat	BROOKLYN.	Product thickness	Corrected Depth to H <sub>2</sub> 0	Groundwater Elevation
Well	TOPVC Elevation	Date	Depth to product		Feet	Feet	Feet
	Feet		Feet	Feet 12.31	NA	12.31	85.31
MW-1N	97.62	1/18/01	NA	NM	NA	NM	NM
		1/25/01	NM	12.21	NA	12.21	85.41
		2/7/01	NA	12.21	NA	12.09	85.53
		2/15/01	NA NA	12.09	NA	12.22	85.4
		2/22/01	NA	11.92	NA	11.92	85.7
		3/2/01	NA	11.92	NA	11.87	85.75
		3/9/01 3/16/01	NA	11.98	NA	11.98	85.64
		3/23/01	NA	11.55	NA	11.81	85.81
		3/29/01	NA	12.04	NA	12.04	85.58
		4/5/01	NA	11.96	NA	11.96	85.66
		4/11/01	NA	11.9	NA	11.90	85.72
_		4/20/01	NA	11.86	NA	11.86	85.76
		4/27/01	NA	11.71	NA	11.71	85.91
		5/4/01	NA	11.69	NA	11.69	85.93
		5/10/01	NA	11.66	NA	11.66	85.96
		5/17/01	NA	11.65	NA	11.65	85.97
			2				
MW-2N	97.96	1/18/01	NA	12.67	NA	12.67	85.29
		1/25/01	NM	NM	NM	NM	NM
		2/7/01	NA	12.58	NA	12.58	85.38
		2/15/01	NA	12.47	NA	12.47	85.49
		2/22/01	NA	12.57	NA	12.57	85.39
		3/2/01	NA	12.26	NA	12.26	85.7
		3/9/01	NA	12.34	NA	12.34	85.62
		3/16/01	NA	12.34	NA	12.34	85.62
		3/23/01	NA	12.18	NA	12.18	85.78
		3/29/01	NA	12.42	NA	12.42	85.62
		4/5/01	NA	12.34	NA	12.34	85.7
		4/11/01	NA	12.26	NA	12.26	85.74
		4/20/01	NA	12.22	NA	12.22	85.92
		4/27/01	NA	12.04	NA	12.04	85.91
		58/4/01	NA	12.05	NA	12.05	85.95
		5/10/01	NA	11.01	NA	11.99	85.97
	the second second	5/17/01	NA	11.99	NA	11.99	05.57
				10.40	NA	12.42	85.27
MW-3N	97.69	1/18/01	NA	12.42	NA	NM	NM
		1/25/01	NM	NM 12.35	NA	12.35	85.34
		2/7/01	NA	12.35	NA	12.35	85.48
		2/15/01	NA NA	12.33	NA	12.33	85.36
		2/22/01	NA NA	12.00	NA	12.00	85.69
		3/2/01		12.00 NM	NA	<sup>1</sup> NM	' NM
		3/9/01	NA NA	12.09	NA	12.09	85.60
		3/16/01 3/23/01	NA	11.91	NA	11.91	85.78
		3/23/01 3/29/01	NA NA	12.19	NA	12.19	85.50
		4/5/01	NA	12.09	NA	12.09	85.60
		4/3/01	NA	12.02	NA	12.02	85.67
		4/11/01	NA	11.97	NA	11.97	85.72
		4/27/01	NA	11.77	NA	11.77	85.92
		5/4/01	NA	11.76	NA	11.76	85.93
		5/10/01	NA	11.71	NA	11.71	85.98
		5/17/01	NA	11.72	NA	11.72	85.97
				100 A 100 A 100			
MW-4N	97.24	1/18/01	11.96	12.06	0.10	11.98	85.27
	2	1/25/01	NM	NM	NM	NM	NM
		2/7/01	11.81	12.07	0.26	11.85	85.39
		2/15/01	11.74	11.75	0.01	11.74	85.50

TABLE 3
MONITORING WELL GROUNDWATER LEVELS
CON EDISON THIRD AVENUE YARD
BROOKLYN, NEW YORK

Well	TOPVC Elevation	Date	Depth to product	Depth to Water	Product thickness	Corrected Depth to H <sub>2</sub> 0	Groundwater Elevation
Aren .	Feet		Feet	Feet	Feet	Feet	Feet
-	reet	2/22/01	11.77	11.95	0.18	11.80	85.44
		3/2/01	11.53	11.54	0.01	11.53	85.71
		3/9/01	<sup>2</sup> NA	11.00	<sup>2</sup> NA	11.00	86.24
		3/16/01	12.64	12.71	0.07	12.65	84.59
		3/23/01	2 NA	11.46	<sup>2</sup> NA	11.46	85.78
		3/29/01	<sup>2</sup> NA	11.70	<sup>2</sup> NA	11.70	85.54
		4/5/01	<sup>2</sup> NA	11.56	<sup>2</sup> NA	11.56	85.68
		4/11/01	<sup>2</sup> NA	11.62	<sup>2</sup> NA	11.62	85.62
		4/20/01	<sup>2</sup> NA	11.56	<sup>2</sup> NA	11.56	85.68
		4/27/01	<sup>2</sup> NA	11.42	<sup>2</sup> NA	11.42	85.82
		5/4/01	NA	11.33	NA	11.33	85.91
		5/10/01	NA	11.33	NA	11.33	85.91
		5/17/01	NA	11.28	NA	11.28	85.96
MW-5N	97.05	1/18/01	NA	11.35	NA	11.35	85.7
		1/25/01	NM	NM	NM	NM	NM
		2/7/01	NA	11.71	NA	11.71	85.34
		2/15/01	NA	11.55	NA	11.55	85.5
		2/22/01	NA	11.73	NA	11.73	85.32
		3/2/01	NA	11.30	NA	11.30	85.75
		3/9/01	NA	11.43	NA	11.43	85.62
		3/16/01	NA	12.45	NA	12.45	84.60
		3/23/01	NA	11.17	NA	11.17	85.88
	-	3/29/01	NA	11.59	NA	11.59	85.46
		4/5/01	NA	11.46	NA	11.46	85.59
		4/11/01	NA	11.40	NA	11.40	85.65
		4/20/01	NA	11.43	NA	11.43	85.62
		4/27/01	NA	11.16	NA	11.16	85.89
		5/4/01	NA	11.21	NA	11.21	85.84
		5/10/01	NA	11.14	NA	11.14	85.91
		5/17/01	NA	11.18	NA	11.18	85.87
						10.22	85.37
MW-11S	97.69	1/17/01	NA	12.32	NA	12.32	NM
		1/25/01	NM	NM	NM	NM	85.45
		2/7/01	NA	12.24	NA	12.24	85.45
		2/15/01	NA	11.95	NA	11.95	85.48
		2/22/01	NA	12.21	NA	12.21	86.00
		3/2/01	NA	11.69	NA	11.69	85.82
		3/9/01	NA	11.87	NA	11.87	85.82
		3/16/01	NA	11.92	NA	11.92	86.00
		3/23/01	NA	11.69	NA	11.69 12.08	85.61
		3/29/01	NA	12.08	NA		85.72
		4/5/01	NA	11.97	NA	<u>11.97</u> 11.96	85.72
		4/11/01	NA	11.96	NA		85.73
		4/20/01	NA	11.92	NA	11.92	86.12
		4/27/01	NA	11.57	NA	11.57	86.05
_		5/4/01	NA	11.64	NA	11.64	86.15
		5/10/01	NA	11.54	NA	11.54	86.06
		5/17/01	NA	11.63	NA	11.05	00.00
	07.00	1/17/01	NIA	12.39	NA	12.39	85.39
MW-12S	97.78	1/17/01	NA	NM	NA	NM	NM
		1/25/01	NM	12.32	NA	12.32	85.46
_		2/7/01	NA	12.32	NA	12.32	85.72
		2/15/01	NA	12.06	NA	12.00	85.49
		2/22/01 3/2/01	NA		NA NA	11.78	86.00
		3/7/01	NA	11.78	INA		
		3/9/01	NA	11.94	NA	11.94	85.84

#### TABLE 3 MONITORING WELL GROUNDWATER LEVELS CON EDISON THIRD AVENUE YARD BROOKLYN NEW YORK

				BROOKLYN.			Constant Florester
Well	TOPVC Elevation	Date	Depth to product Feet	Depth to Water Feet	Product thickness Feet	Corrected Depth to H <sub>2</sub> 0 Feet	Groundwater Elevation Feet
	Feet				NA	11.79	85.99
		3/23/01	NA	11.79	NA	12.14	85.64
		3/29/01	NA	12.14		12.06	85.72
		4/5/01	NA	12.06	NA	11.98	85.80
		4/11/01	NA	11.98	NA	12.00	85.78
		4/20/01	NA	12.00	NA		86.15
		4/27/01	NA	11.63	NA	11.63	86.07
		5/4/01	NA	11.71	NA	11.71	86.13
		5/10/01	NA	11.65	NA	11.65	
		5/17/01	NA	11.74	NA	11.74	86.04
W-135	97.70	1/17/01	NA	12.26	NA	12.26	85.44
111-150	21110	1/25/01	NM	NM	NM	NM	NM
		2/7/01	NA	12.14	NA	12.14	85.56
		2/15/01	NA	11.90	NA	11.90	85.80
		2/22/01	NA	12.13	NA	12.13	85.57
		3/2/01	NA	11.65	NA	11.65	86.05
		3/9/01	NA	11.22	NA	11.22	86.48
		3/16/01	NA	11.88	NA	11.88	85.82
		3/23/01	NA	11.61	NA	11.61	86.09
		3/29/01	NA	11.96	NA	11.96	85.74
				11.90	NA	11.89	85.81
		4/5/01	NA	11.89	NA	11.81	85.89
		4/11/01	NA	11.87	NA	11.87	85.83
		4/20/01	NA		NA	11.52	86.18
		4/27/01	NA	11.52	NA	11.52	86.12
		5/4/01	NA	11.58		11.58	86.21
		5/10/01	NA	11.49	NA	11.49	86.11
		5/17/01	NA	11.59	NA	11.39	00.11
MW-14S	97.33	1/17/01	NA	11.89	NA	11.89	85.44
		1/25/01	NM	NM	NM	NM	NM
		2/7/01	NA	11.79	NA	11.79	85.54
		2/15/01	NA	11.50	NA	11.50	85.83
		2/22/01	NA	11.77	NA	11.77	85.56
		3/2/01	NA	11.32	NA	11.32	86.01
		3/9/01	NA	11.50	NA	11.50	85.83
		3/16/01	NA	11.51	NA	11.51	85.82
_		3/23/01	NA	11.30	NA	11.30	86.03
		3/29/01	NA	11.64	NA	11.64	85.69
		4/5/01	11.54	11.55	0.01	11.54	85.79
		4/11/01	NA	11.60	NA	11.60	85.73
		4/20/01	NA	11.56	NA	11.56	85.77
		4/27/01	NA	11.32	NA	11.32	86.01
		5/4/01	NA	11.21	NA	11.21	86.12
		5/10/01	NA	11.17	NA	11.17	86.16
			NA	11.17	NA	11.16	86.17
		5/17/01	INA				
MW-18S	96.83	1/17/01	NA	11.25	NA	11.25 NM	85.58 NM
		1/25/01	NM	NM	NM	10.95	85.88
		2/7/01	NA	10.95	NA		86.04
	-	2/15/01	NA	10.79	NA	10.79	
		2/22/01	NA	11.01	NA	11.01	85.82
		3/2/01	NA	10.72	NA	10.72	86.11
		3/9/01	NA	10.86	NA	10.86	85.97
		3/16/01	NA	10.80	NA	10.80	86.03
		3/23/01	NA	10.61	NA	10.61	86.22
		3/29/01	NA	10.82	NA	10.82	86.01
		4/5/01	NA	10.25	NA	10.25	86.58
		4/11/01	NA	10.72	NA	10.72	86.11

TABLE 3
MONITORING WELL GROUNDWATER LEVELS
CON EDISON THIRD AVENUE YARD
BROOKI VN NEW VORK

Well	TOPVC Elevation	Date	Depth to product	Depth to Water	Product thickness	Corrected Depth to H <sub>2</sub> 0	Groundwater Elevation
W CIL	Feet	Date	Feet	Feet	Feet	Feet	Feet
_		4/20/01	NA	10.74	NA	10.74	86.09
		4/27/01	NA	10.59	NA	10.59	86.24
		5/4/01	NA	10.60	NA	10.60	86.23
		5/10/01	NA	10.89	NA	10.89	85.94
		5/17/01	NA	10.65	NA	10.65	86.18
		1/17/01	NÁ	11.77	NA	11.77	85,59
AM-19S	97.36		NA	NM	NM	NM	NM
		1/25/01		12.54	NA	12.54	84.82
		2/7/01	NA NA	11.46	NA	11.46	85.90
		2/15/01		11.40	NA	11.12	86.24
		2/22/01	NA	11.12	NA	11.33	86.03
		3/2/01	NA NA	11.35	NA	11.35	86.01
		3/9/01		11.35	NA	11.44	85.92
		3/16/01	NA	11.44	NA	11.24	86.12
		3/23/01	NA NA	11.24	NA	11.49	85.87
		3/29/01		11.49	NA	11.45	85.91
		4/5/01	NA	11.45	NA	11.38	85.98
		4/11/01	NA	11.36	NA	11.41	85.95
		4/20/01	NA	11.41	NA	11.20	86.16
		4/27/01	NA	11.20	NA	11.20	86.16
		5/4/01	NA	11.15	NA NA	11.15	86.21
		5/10/01	NA	11.13	NA	11.22	86.14
		5/17/01	NA	11.22	NA	11.22	
MW-20S	96.64	1/17/01	NA	11.23	NA	11.23	85.41
WI W-203	90.04	1/25/01	NM	NM	NM	NM	NM
		2/7/01	NA	11.08	NA	11.08	85.56
		2/15/01	NA	10.86	NA	10.86	85.78
		2/22/01	NA	11.09	NA	11.09	85.55
		3/2/01	NA	10.70	NA	10.70	85.94
		3/9/01	NA	<sup>1</sup> NM	NA	' NM	<sup>1</sup> NM
		3/16/01	NA	11.86	NA	11.86	84.78
		3/23/01	NA	10.64	NA	10.64	86.00
		3/29/01	NA	10.57	NA	10.57	86.07
		4/5/01	NA	10.89	NA	10.89	85.75
		4/11/01	NA	10.81	NA	10.81	85.83
		4/20/01	NA	10.85	NA	10.85	85.79
		4/20/01	NA	10.56	NA	10.56	86.08
	· · · · · · · · · · · · · · · · · · ·	5/4/01	NA	10.60	NA	10.62	86.02
		5/10/01	NA	10.55	NA	10.55	86.09
		5/10/01	NA	10.55	NA	10.62	86.02

NM = Not measured NA = Not applicable

1 well under water

<sup>2</sup> Soakease saturated with product

Sample Location	Sample Date	Temperature (°C)	Specific Conductance (umhos/cm)	DO (mg/l)	pH (units)	Eh (millivolts)	Turbidity NTU
	1/22/01*	14.39	1410	0.29	7.32	-303	243
MW-1N	2/8/01	14.27	2270	1.39	7.48	-184	1980
	1/22/01*	14.72	1290	2.06	7.08	-240	48
MW-2N	2/8/01	15.28	3070	0.35	7.32	-245	20.80
	1/23/01*	16.36	246	2.37	7.12	-273	63
MW-3N	2/8/01	14.66	6400	0.17	7.75	-301	NM
	1/23/01*	16.26	1290	1.04	6.94	-366	65
MW-4N	2/8/2001**					****	
	1/18/01*	16.44	358	0.41	6.91	-287	5.00
MW-5N	2/8/01	16.41	3130	0.34	7.22	-281	7.33
	1/17/01*	16.99	3900	0.32	6.66	345	33.4
MW-11S	2/7/01	16.46	7870	0.18	6.69	-357	38.50
2.611.100	1/17/01*	16.85	1870	0.42	7.12	-347	7
MW-12S	2/7/01	16.00	4170	0.15	7.39	-353	16.19
	1/18/01*	17.21	3220	0.27	6.99	-336	73
MW-13S	2/7/01	15.24	7010	0.18	7.27	-352	38.30
	1/17/01*	16.88	930	0.31	6.9	-351	44
MW-14S	2/7/01	16.15	6330	0.49	7.29	-316	NM
100	1/22/01*	13.18	2160	0.89	6.87	-271	34
MW-18S	2/8/01	13.28	3300	1.53	7.18	-244	22.00
100	1/21/01*	13.84	1650	1.28	7.18	-232	19
MW-19S	2/8/01	14.01	1404	3.46	7.51	-138	88.20
	1/17/01*	16.69	2460	0.08	6.97	-367	8.4
MW-20S	2/8/01	15.50	8310	0.30	7.25	-291	7.33

#### TABLE 4 GROUNDWATER FIELD PARAMETER DATA CON EDISON 3rd AVENUE YARD BROOKLYN, NEW YORK

**NOTES:** 

DO = Dissolved Oxygen

NM = Not Measured

\* Well Development

\*\* Product in well. Collect sample for fingerprint analysis.

TABLE 5 SUMMARY OF MONITORING WELL GROUNDWATER SAMPLE ANALYTICAL DATA CON EDISON THIRD AVENUE YARD BROOKLYN, NEW YORK Feb 101

	FIELD	ID:	Trip Blank	MW-1N	MW-2N	MW-3N	MW-4N	MW-5N	MW-6N	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S
VOCs (TCLP)	STARS C	RITERIA														
MTBE	10	ppb	NA	84.6	18.5	74.1	NA	ND	ND	697 •	198 E ·	40.3 ·	260	ND	ND	ND
Benzene	0.7	ppb	ND	24.4	ND	ND	NA	ND	ND	3.8	ND	ND	16.7	ND	ND	ND
Toluene	5	ppb	ND	24.2	ND	ND	NA	ND	ND	15.2	ND	ND	44.5	ND	ND	ND
Ethyl Benzene	5	ppb	ND	56.7	ND	ND	NA	ND	ND	89.1	ND	ND	174	ND	ND	ND
m,p-xylene	-	ppb	ND	400	ND	ND	NA	ND	ND	476	2.1	ND	823	ND	ND	ND
o-xylene	5	ppb	ND	232	ND	ND	NA	ND	ND	180	ND	ND	474	ND	ND	ND
Xylene Total		ppb	ND	632	ND	ND	NA	ND	ND	656	2.1	ND	1297	ND	ND	ND
Isopropyl benzene	5	ppb	ND	24.7	ND	ND	NA	ND	ND	21.1	0.85	ND	23.3	ND	ND	ND
n-Propyl benzene	5	ppb	ND	16.4	ND	ND	NA	ND	ND	40.0	ND	ND	17.1	ND	ND	ND
1.3.5-Trimethyl benzene	5	ppb	ND	156	ND	ND	NA	ND	ND	215	3.1	ND	146	ND	ND	ND
tert-Butyl benzene	5	ppb	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.2.4-Trimethyl benzene	5	ppb	ND	308	ND	ND	NA	ND	ND	611	6.4	ND	481	ND	ND	ND
sec-Butylbenzene	5	ppb	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-lsopropyltoluene	5	ppb	ND	10.9	ND	ND	NA	ND	ND	17.7	ND	ND	8.10	ND	ND	ND
n-Butylbenzene	- 5	ppb	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ppb	ND	44.0	ND	ND	NA	ND	ND	84.0	ND	ND	64.1	ND	ND	ND
Methylene Chloride	5	ppb	72.7	ND	ND	ND	NA	ND	ND	ND	ND	<sup>2</sup> 3.4	<sup>2</sup> 12.5	ND	ND	ND
Chloroform	7	ppb	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	0.55	ND	ND
SVOCs (TCLP)	STARS C	RITERIA														
Acenaphthene	20	ppb	NA	1.20	ND	0.31 J	NA	0.33 J	0.34 J	NA	NA	NA	NA	NA	NA	NA
Fluorene	50	ppb	NA	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Phenenathrene	50	ppb	NA	ND	ND	0.27 J	NA	0.26 J	0.28 J	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ppb	NA	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ppb	NA	0.58	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Рутепе	50	ppb	NA	0.71	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ppb	NA	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ppb	NA	ND	<sup>1</sup> ND	ND	NA	ND	'ND	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.002	ppb	NA	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.002	ppb	NA	ND	ND	ND	NA	ND	<sup>I</sup> ND	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.002	ppb	NA	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3,-cd)pyrene	0.002	ppb	NA	ND	ND	<sup>I</sup> ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	50	ppb	NA	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,l)pyrelene	0.002	ppb	NA	ND	ND	'ND	NA	<sup>1</sup> ND	<sup>1</sup> ND	NA	NA	NA	NA	NA	NA	NA
Di -n-Butylphthalate	50	ppb	NA	0.35 J	ND	0.21 J	NA	ND	0.23 J	NA	NA	NA	NA	NA	NA	NA
bis (2-Ethyhexyl) Phthalate	50	ppb	NA	1.50 J	0.75 J	1.00 J	NA	1.70 J	0.96 J	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene		ppb	NA	ND	ND	0.32 J	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	50	ppb	NA	ND	ND	0.29 J	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
OTHER	STARS C															
Lead	25	ppb	NA	507	51.9	113	542,000/900	ND	ND	30.4	0.93 J	19.8	12.1	ND	0.74 J	ND
Gasoline	· ·		NA	NA	NA	NA	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

'The method detection limit is greater than the groundwater criteria.

<sup>2</sup>Analyte found in trip blank

<sup>3</sup> Grab/composite sample results

All concentrations reported in parts per billion (ppb) = micrograms per liter (ug/L) = micrograms per kilogram (ug/kg)

ND = not detected above method detection limit (MDL)

NA = not analyzed

J = Estimated value. The concentration reported was below the method detection limit.

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



			<u></u>	JA	ACQUE	S WHIT	FORD	COMP	ANY, INC			
Proje			Con Ediso				yn, New Y	/ork				1 of 1
Clien	t:		Consolida	ted Edisor	n of New				2/4 :1	Dening #	D IN	MW-1N
	actor:		EPI			Casing Si	ze:		3/4 -1nch	Boring #.	B-IIN/	12/13/00
	ng Method		DP (Hurri						MOC	Date Begun: Completed:		12/13/00
	nd Elevatio	on:	Not surve	yed	(MSL)	Checked			MSG	Depth to Water	. (in malt)	
Logg	ed By:		CSP		r	Protection	n Level:		D	Depin to water		
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta	andard Per (blow	netration 7 s/foot)	ſest	Soil/Rock Descr	iption	Soil Classification	Well Construction
					0 - 6"	6" - 12"	12" - 18"	18" - 24"	7			
$\left  \frac{1}{1} \right $						g to 5 feet		-	0-2" Asphalt			
2				0.7					2"-30" Gray-bla	ck, dry, f-m		
3			+						SAND, little Sil	t, trace Gravel	SW	
4			3	ND			·		30"-60" Dark bi	rown, moist,		
5									f-m SAND, little	e Silt		
6									1			
7	5-9	S-1	48/30	5	1			·	Dark brown, mo	oist, f-m	SW	
8	5-7	01	10/00			1			SAND, little Sil	t		
9												
10									1			
11	9 - 13	S-2	48/40	520	Two, 2"	seams of	gray petro	leum	Brown, moist to	wet, f-c	SW	
12						oil at 10' a			SAND, little Sil	lt, trace Gravel.		
13									]			[2] [2] [3] [3] [3] [3] [3] [3] [3] [3] [3] [3
14			+									
15	13 - 17	S-3	48/44	100	1				Similar to 9'-13' s	ample.	SW	
16									(Saturated)			
17	1				Bottom	of boring a	at 17 feet					
18		<u> </u>	1									
19	1											
20												
	Well Scro Filter Pao Divider S Annular S Surface S	ck Seal Seal	8'-18' 6'-18' 2'-6' (Ber Flush mo					Soil sam At comp	at at 13 feet. aple from 9-10 ft oletion of soil san 5/8" ID HSA and	pling, borehole	was redri	lled to 18'

				J	ACQUE	S WHI	ſFORD	COMP	ANY, INC				
rojec	et:	_	Con Ediso				yn, New Y	ork				1 0	of 1
Client	:		Consolida	ted Ediso:	n of New								
Contra	actor:		EPI			Casing Si	ize:		3/4 -inch	Boring #.	B-2N	/MW-2	
Drillin	ng Method		DP (Hurri	cane)						Date Begun:			4/00
	nd Elevatio		Not survey	yed	(MSL)	Checked	By:		MSG	Completed:			20/00
ogge	ed By:		CSP			Protection	n Level:		D	Depth to Water	r (in well)	11.85	ftb
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)		(blow	netration T s/foot)		Soil/Rock Descr	iption	Soil Classification	Well	Construction
					0 - 6"		12" - 18"	18" - 24"					
1					Hand du	g to 5 feet			0-2" Asphalt			HUMBLE	m
2				150		L			2"-60" Gray-bla				
3					·				SAND, some Si	lt, little Gravel	SM		1
4									4			Annial Parlament	1
5	5-9	S-1	48/24	ND					12" of dark bro		SC		E
6				ND					SAND, some cl	ayey Silt, trace			
7				5					Gravel over				
8				10					12" of gray, mo	ist, f-c SAND	SM	_	
9				13					some GRAVEL	, some Silt			
10	9-13	S-2	48/34	20	Petroleu	m odor.			Gray, moist to v	wet, f-c SAND			
11				67					some Gravel, so	ome Silt	GM		
12				40									
13				38					1			_	
14				120					]				
15	13 - 17	S-3	48/24	185					Gray, wet, f-c SA	ND and	GM	ŝ. :	
16				185					GRAVEL, some	Silt.			
17							1		1				
18				<u> </u>	Bottom	of boring	at 17 feet		1		ļ		
19						1			1				
20				1	<u> </u>	1	1		1				
20	Well Scre	en.	8'-18'	L				NOTES:					
	Filter Pac Divider S Annular S Surface S	k eal Seal	5'-18' 2'-5' (Ben Flush mo					Soils we Soil sam At comp	t at 12 feet. ple from 11-12 f detion of soil san 5/8" ID HSA and	npling, borehole	was redri	lled to	18'

Projec	·t·		Con Ediso	n: 3rd Av	enue Yar	l - Brookl	yn, Ne	w Yo	rk				1 of 1
Client			Consolidat										
	actor:		EPI			Casing Si	ze:			3/4 -inch	Boring #.	B-3N/	MW-3N
	ng Method	•	DP (Hurri	cane)							Date Begun:		12/13/0
	nd Elevatio		Not survey	yed	(MSL)	Checked				MSG	Completed:		12/20/0
Logge	ed By:		CSP			Protectio	n Leve	el:		D	Depth to Water	(in well):	11.5 ft b
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta	andard Per (blow	netratic s/foot)		st	Soil/Rock Descr	iption	Soil Classification	Well Construction
			1		0 - 6"	6" - 12"	12" -	18"1	8" - 24"				
1						g to 5 feet				0-2" Asphalt			100000000
2				ND		Ĭ				2"-60" Brown-b			
3			1							SAND, little Sil	t, little Gravel,	SW	
4				1100						little Cinders.			
5													
6													
7	5-9	S-1	48/24	0.5						Brown, moist to		SM	
8						<u> </u>				SAND, some Si	· · · · · · · · · · · · · · · · · · ·		
9										(4" of black org	anic SILT at 9')		
10						<b></b>						<b>C1 (</b>	
11	9 -13	S-2	48/24	5.7			L			Brown, moist to		SM	
12				L				$\rightarrow$		SAND, some G	ravel, some Silt		
13					1		ļ			4			
14			1	L		ļ	ļ				ND 014	SM	
15	13 - 17	<u>S-3</u>	48/20	1.5	ļ					Gray, wet, f-c SA	ND, some Silt	SIVI	
16				ļ			. 1			some Gravel.			
17					Bottom	of boring :	at 17 fe	eet					
18				ļ						-			
19	<u> </u>									4			
20	<u> </u>			I				<u> </u>	IOTES.				
	Well Scre Filter Pac Divider S Annular S Surface S	k Seal Seal	•	ntonite Ho				2	Soil sam At comp	t at 13 feet. ple from 9-10 ft letion of soil san 5/8" ID HSA and	pling, borehole	was redri	lled to 18

				J	ACQUE	S WHI	FFORD	COMP	ANY, INC			
Projec	et:		Con Ediso	n: 3rd Av	enue Yard	i - Brookl	yn, New Y	ork				1 of 1
Client			Consolida									
	actor:		EPI			Casing Si	ize:		3/4 -inch	Boring #.	B-4N	/MW-4N
Drilli	ng Method	•	DP (Hurri	cane)						Date Begun:		12/14/0
	nd Elevatio		Not survey	yed	(MSL)	Checked	By:		MSG	Completed:		12/19/0
ogge	ed By:		CSP			Protectio	n Level:		D	Depth to Water	(in well)	: 12.0 ft t
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta	Standard Penetration Test (blows/foot) Soil/Rock Des 0 - 6" 6" - 12" 12" - 18" 18" - 24"				ption	Soil Classification	Well Construction
					0 - 6"	6" - 12"	12" - 18"	18" - 24"				
1					Hand du	g to 5 feet			0-2" Asphalt			
2				ND					2"-60" Gray-bla			PORPARIO
3									SAND, some Si	lt, little Gravel	SM	
4								L				la ser la ser la
5	5-9	S-1	48/40	5					34" of brown, n		SM	
6				5					SAND, some Si	lt, little Gravel		
7				5					over			
8				5					6" of gray-brow	· · · ·	GP	980 <b>—</b> —
9				20					SAND and GRA			
10	9-13	S-2	48/34	40					24" of brown, n		~ ~	
11				60					SAND, some Si	lt, ltl. Gravel	SM	
12				300		<u> </u>	L		over			
13				150	Petroleu	m odor.			10" gray-brown		GP	· · · · ·
14				80					f-c SAND and (		014	
15	13 - 17	S-3	48/30	5	Petroleu	m odor.	<u> </u>		Gray-black, wet,		SM	
16				5	<b></b>	ļ			some Silt, some C	fravel.		136
17			<u> </u>	5			1		-			
18				L	Bottom	of boring	at 17 feet		4			
19				L		I	l	<b> </b>	4			
20				L		<u> </u>		NOTITIC	<u> </u>			
	Well Scree Filter Pac Divider S Annular S Surface S	k Seal Seal	8'-18' 5'-18' 3'-5' (Ben Flush mo					Soil sam At comp	t at 12 feet. ple from 11-12 f oletion of soil san 5/8" ID HSA and	pling, borehole	was redri	lled to 18

					JA	ACQUE	S WHIT	FORD	COMP	ANY, INC				
1	Projec	:t:		Con Ediso	n: 3rd Av	enue Yaro	l - Brookl	yn, New Y	/ork				1 0	of 1
ļ	Client			Consolidat	ted Edisor	n of New								
	Contra	actor:		EPI			Casing Si	ze:		3/4 -inch	Boring #.	B-5N	/MW-5	
1	Drillir	ng Method	•	DP (Hurri							Date Begun:			3/00
	Groun	d Elevatio	n:	Not survey	/ed	(MSL)	Checked			MSG	Completed:	(1 11)		9/00
	Logge	d By:		CSP			Protection	n Level:		D	Depth to Water	(in well)	11.75	ft bgs
and the second se	Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta		s/foot)		Soil/Rock Descr	iption	Soil Classification	Well	Construction
ļ	ĺ					0 - 6"	6" - 12"	12" - 18"	18" - 24"	1				
	1					Hand du	g to 5 feet			0-2" Asphalt				(Stopposi
l	2				0.5					2"-60" Brown-b				
1	3									SAND, little Sil	t, little Gravel.	SW		
	4				0.3									
1	5													
J	6													
	7	5-9	S-1	48/32	0.4					Brown, moist to		SM		
1	8									SAND, some Si	lt, some Gravel		_	
ľ	9									trace Cinders.			_	
	10											~ ~ ~ ~ ~ ~	L	
i	11	9 -13	S-2	48/30	ND					Alternating laye		SM/PT	-	_
ł	12									moist to wet, f-1	m SAND, some		-	
1	13									Silt and			-	
	14									brown-gray org			-	
ł	15	13 - 17	S-3	48/20	1.5		<u> </u>	ļ	ļ	Similar to 9'-13' s	sample	SM/PT		_
1	16								ļ	4			-	
	17				ļ	Bottom	of boring a	at 17 feet		4			-	-
I	18						ļ	L		4				
ł	19								ļ	-				
	20												1	
		Well Scree Filter Pac Divider S Annular S Surface S	k eal Seal	8'-18' 5'-18' 2'-5' (Ben Flush mo					Soil sam	et at 10 feet. uple from 8-9 ft wo oletion of soil san 5/8" ID HSA and	pling, borehole	was redri	lled to	18'

roje			Con Ediso				yn, New Y	ork				1 of 1
Clien			Consolida	ted Edisor	n of New				2/4 :1	Dening #		B-6N
	actor:		EPI			Casing Si	ze:		3/4 -inch	Boring #.		
	ng Method		DP (Hurri		(2.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	<u> </u>			100	Date Begun:		12/14/0
	nd Elevatio	on:	Not survey	yed	(MSL)	Checked			MSG	Completed:		12/14/0
logg	ed By:		CSP			Protection	n Level:		D	Depth to Water		12 ft bg
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta	andard Per (blow	netration T s/foot)	`est	Soil/Rock Descr	iption	Soil Classification	Well Construction
					0 - 6"	6" - 12"	12" - 18"	18" - 24"				
1					Hand du	g to 5 feet			0-2" Asphalt			
2					·				2"-60" Dark bro	wn/black, dry,		No well
3									f-c SAND, little	Gravel, little	SW	installed.
4				17					Cobbles, little S	ilt.		
5				15								
6				35								
7	5-9	S-1	48/40	50					24" as above ov	· · · ·	SM	
8				70					moist, f-m SAN			
9		_		180					over 4" gray, m			
10				260					ltl. Gravel, ltl. S		~ ~	
11	9 -13	S-2	48/30	150					18" brown, moi		SC	
12			L	150					some clayey Sil			
13				10		ļ			gray, wet, f-c S.		SW	
14				5		ļ			Gravel, little Si	1	0117	
15	13 - 17	S-3	48/24	13		ļ			Gray, wet, f-c SA		SW	
16				10					Gravel, little Silt.			
17							+ 17 6		4			
18			<u> </u>	ļ	Bottom	of boring a	t 1 / feet		-			
19			<u> </u>						4			
20						L	1	NOTES				
	Well Scree Filter Pac Divider S Annular S Surface S	k eal Seal	N/A N/A N/A N/A N/A						t at 12 feet. ple from 9-10 ft	was submitted fo	or laborat	ory analys

Proje			Con Ediso				yn, New Y	'ork				1 of 1
Clien			Consolida	ted Edisor	1 of New				2/4 in th	Boring #.		B-7N
	actor:		EPI			Casing Si	ze:		3/4 -inch	Date Begun:		12/14/0
	ng Method		DP (Hurri			Charlest	D		MSG	Completed:		12/14/0
	nd Elevatio	on:	Not survey	yed	(MSL)	Checked Protection			D	Depth to Water		12/14/0
Logg	ed By:		CSP			Protection	I Level.		D	Depin to water		I
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)			s/foot)		Soil/Rock Descr	iption	Soil Classification	Well Construction
					0 - 6"	6" - 12"	12" - 18"	18" - 24'				
1	0-4	S-1	48/32	2					0-2" Asphalt			
2				5					2"-48" Gray-bla		0.6	No well
3				20					SAND, some Si	lt, little Gravel,	SM	installed.
4				30					trace Brick.			
5	4-8	S-2	48/40	10					32" as above ov			
6				25	<u> </u>	<b> </b>			8" gray, moist, :		SW	
7				15	<b> </b>				little Gravel, lit	tle Silt.	200	
8			10/26	30	ļ				24" dark brown	moist f.m		
9	8-12	S-3	48/36	25					SAND, some C			
10				65 70		╉┈────			12" gray, moist		sc	
11	<u> </u>			80					SAND, some cl			
12 13	12-16	S-4	48/30	70					little Gravel.		SC	
$\frac{13}{14}$	12-10	5-4	40/30	29					Gray, wet, f-c S	AND, some		
14			+	20					clayey Silt, some		SC	
15				20		1			1			
17	1					1			1			
18					Bottom	of boring a	at 16 feet					
19	1											
20												
	Well Scr	een	N/A					NOTES:				
	Filter Pac	ck	N/A						et at 12 feet.		c 11	1
	Divider S		N/A					Soil san	ple from 11-12 f	t was submitted	tor labor	atory analy
	Annular		N/A									
	Surface S	Seal	N/A									

<b>JACQUES</b>	WHITFORD	COMPANY,	INC
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1					JA	ACQUE	S WHI	LEORD	COMP	'ANY, INC			
1	Projec	t:		Con Ediso	n: 3rd Av	enue Yaro	d - Brookl	yn, New Y	/ork				1 of 1
	Client			Consolidat									
	Contra			EPI			Casing Si	ze:		3/4 -inch	Boring #.	B-11S/	MW-11S
1	Drillir	g Method	:	DP (Hurri	cane)						Date Begun:		12/14/00
I		d Elevatio		Not survey	yed	(MSL)	Checked			MSG	Completed:		12/18/00
	Logge	d By:		CSP			Protection	n Level:		D	Depth to Water	(in well)	: 12.25 ft. bgs
	Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta		s/foot)		Soil/Rock Descr	iption	Soil Classification	Well Construction
۳,						0 - 6"			18" - 24"				
al.	1	0-5		NA		Augered	directly to	5 feet bg	s.	0-2" Asphalt			constitute TACM
Į.	2								L	2"-60" Gray, dr		SW	
3	3				40					little Silt, little (	Jravel.		
	4									D 4.11.1	maint for	SW	
ł	5	5-9	S-1	48/38			Petroleum	odor at 8-	.9'.	Brown to black		24	
J,	6				25	<u> </u>				SAND, little Sil	i, illie Glavei.		
	7				1.50	<u> </u>			<u> </u>	-			
1	8	0.10		49/24	150					20" as above ov	rer	SW	
1	9	9 - 13	S-2	48/24	100		+		<u> </u>	4' gray, wet, m-		SW	
	10				100					trace Silt.			
	11 12				150				┼────				
1	12	13 - 17	S-3	48/30	150					Gray, wet, m-c	SAND, trace	SW	
	13	15-17	0-5	10/30	170		+			Silt.			
	15									]			
	16				80								<b>議員議</b>
	17			1						1			鬣 龖
	18					Bottom	of boring	at 17 feet	<u> </u>	4			
	19					<u> </u>		L	ļ	4			
	20				L								
		Well Scre Filter Pac Divider S Annular S Surface S	ck Seal Seal	4'-19' 2'-19' 1'-2' (Ben Flush mor					Soil sam At comp	t at 12 feet. ple from 8-9 ft w detion of soil san 5/8" ID HSA and	pling, borehole	was redri	lled to 19'

				JA	ACQUE	S WHI	ſFORD	COMP	ANY, INC			
Projec	et:		Con Ediso	n: 3rd Av	enue Yar	d - Brookl	yn, New Y	/ork				1 of 1
Client			Consolida									
Contr			EPI			Casing Si	ize:		3/4 -inch	Boring #.	B-12S/	MW-12S
Drilli	ng Method	l:	DP (Hurri	cane)						Date Begun:		12/14/00
	nd Elevatio		Not survey	yed	(MSL)	Checked	By:		MSG	Completed:		12/20/00
	ed By:		CSP			Protection	n Level:		D	Depth to Water	r (in well)	: 12.3 ft. bgs
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)			rs/foot)		Soil/Rock Descr	iption	Soil Classification	Well Construction
					0 - 6"		12" - 18"					
1	0-5		NA		Augered	directly to	o 5 feet bg	S	0-2" Asphalt	1	CIU	NUMBER OF
2				15					2"-60" Dark bro	• •	SW	
3									SAND, little Sil			
4									Gravel, trace B		0111	
5	5-9	S-1	48/20	L					Similar to 0-5 s	ample.	SW	
6				50				ļ	4			
7								<u> </u>	4			888 — BB
8				120			I	ļ				899 — BB
9	9 - 13	S-2	48/24			<u> </u>		L	Dark brown, me		SM	
10				25					SAND, some S	ilt.		
11						<u> </u>	Ļ	ļ	4		Į	創造—— <b>総</b> 議
12				25			ļ	ļ				
13	13 - 17	S-3	48/30	L			ļ	ļ	Brown, wet, f-n		SC	1838 — 88
14				10				L	some clayey Sil	it.		
15							ļ	·	4			
16				10				<u> </u>	4			
17				<u> </u>				<b> </b>	4			18 3 — - <b>8</b> 8
18				L	Bottom	of boring	at 17 feet	ļ	4			1966-1988 - 1988-1988-1988-1988-1988-1988-19
19				ļ					4			1
20				<u> </u>								
	Well Scr Filter Pac Divider S Annular S Surface S	ck Seal Seal	8'-18' 5'-18' 2'-5' (Ber Flush mo					Soil sam At comp	et at 12 feet. pple from 10-11 f oletion of soil san 5/8" ID HSA and	npling, borehole	e was redri	illed to 18'

<b>JACQUES WHITFORD</b>	COMPANY,	INC
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rojec	ct:		Con Ediso				yn, New Y	ork				1 of 1
lient			Consolida	ted Edisor	1 of New							
Contr	actor:		EPI			Casing Si	ze:		3/4 -inch	Boring #.	B-13S/	MW-13S
Drilli	ng Method	:	DP (Hurri	cane)						Date Begun:		12/14/00
Grou	nd Elevatio	n:	Not survey	yed	(MSL)	Checked			MSG	Completed:		12/18/00
Jogge	ed By:		CSP			Protection	n Level:		D	Depth to Water	(in well)	: 12.20 ft. t
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)		(blow	netration T s/foot)		Soil/Rock Descr	iption	Soil Classification	Well Construction
					0 - 6"	1	12" - 18"	and the second se				
1	0-5		NA		Augered	directly to	5 feet bg	3.	0-2" Asphalt		C1 4	a series a series of the
2									2"-60" Gray, dr		SM	-
3				10					some clayey Sil	t, trace Gravel,		
4									trace Brick.	1 0 51	CM	
5	5-9	S-1	48/30			Petroleum	odor at 8-	9'	Similar to samp	le 0-5'	SM	
6				30					-			
7									4			
8				120					4.			
9	9 - 13	S-2	48/24						Brown, moist to		SC	
10				25					SAND, some cl	ayey Silt.		
11												
12				10								
13	13 - 17	S-3	48/24						Similar to samp	le 9-13 (wet)	SC	
14				10					4			
15						<u> </u>			4			
16									4			
17									4			
18					Bottom	of boring	at 17 feet		4			
19									4			1993
20												
	Well Scr	een	4'-19'					NOTES:				
	Filter Pac	k	2'-19'						et at 12 feet.			
	Divider S	eal						Soil sam	ple from 8-9 ft w	as submitted for	r laborato	ry analysis
	Annular	Seal		tonite Ho				At comp	letion of soil san	pling, borehole	was redri	lied to 19'
	Surface S	leal	Flush mo	unted roa	dbox			using 6- 12/18/00	5/8" ID HSA and	4" monitoring	well was i	nstalled on

				J	COUF	S WHI	FORD	COMP	ANY, INC	<u> </u>		
				01	ICQUL			001112				
Projec	ct:		Con Ediso	n: 3rd Av	enue Yar	d - Brookl	yn, New Y	/ork				1 of 1
Client			Consolida	ted Edisor	n of New							
Contr	actor:		EPI			Casing Si	ze:		3/4 -inch	Boring #.	B-14S/.	MW-14S
	ng Method		DP (Hurri							Date Begun:		12/15/00
Grour	nd Elevatio	on:	Not surve	yed	(MSL)	Checked			MSG	Completed:	<i>C</i> 11)	12/18/00
Logge	ed By:		CSP			Protection	n Level:		D	Depth to Wate		
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta	andard Per (blow	netration T s/foot)	`est	Soil/Rock Descr	iption	Soil Classification	Well Construction
					0 - 6"	6" - 12"	12" - 18"	18" - 24"	]			
	0-5		NA		Augered	directly to	5 feet bg	s.	0-2" Asphalt			
2				230			ım odor.		2"-60" Black, d	ry, f-c SAND,	SM	
3									some Silt, little			
4									trace Brick, trac			
5	5-9	S-1	48/30			Petrole	um odor.		Dark brown, mo		SM	
6				40					some Silt, trace	Gravel.		
7											1	algebra and
8				70					<u> </u>			
9	9 - 13	S-2	48/40		Petroleu	m odor.			Brown, moist to		SM	
10									SAND, some Si	lit.		
11				330	ļ		·		-			
12	$\square$		10/10		<b>D</b> 1	1		<u> </u>	Gray, wet, f-m S	SAND come	SM	
13 (	13 - 17	<u>S-3</u>	48/10	<u> </u>	Petroleu	m odor. 🔹	I	T	Silt.	SAIND, SUILE	5141	
14				(2000)			┨─────					
15						+			-		1	
16				+					-			
17					Bottom	of boring	at 17 feet		1			
18 19				<u> </u>	Boliom				1			
20				<u> </u>	+	+	<u> </u>		1			
20	Well Scr	l	9'-19'	<u> </u>	1		L	NOTES:	<u> </u>		<b>_</b>	
	Filter Pac		7'-19'						t at 10 feet.			
	Divider S							Soil sam	ple from 8-9 ft w	as submitted fo	r laborato	ry analysis
	Annular		2'-7' (Ben	tonite Ho	leplug)			At comp	letion of soil san	pling, borehole	was redri	lled to 19'
	Surface S		Flush mo					using 6-3 12/18/00	5/8" ID HSA and	4" monitoring	well was i	nstalled on

rojec	et:		Con Ediso				yn, New Y	/ork				1 of 1
Client	:		Consolida	ted Edisor	n of New					<b>D</b> : "		D 100
	actor:		EPI			Casing Si	ze:		3/4 -inch	Boring #.		B-158
	ng Method		DP (Hurri		() ( )	<u> </u>	<u></u>		Mag	Date Begun:		12/15/0
	nd Elevatio	on:	Not surve	yed	(MSL)	Checked			MSG	Completed:		
ogge	ed By:		CSP			Protection	n Level:		D	Depth to Water		10 ft b
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta		s/foot)		Soil/Rock Descri	iption	Soil Classification	Well Construction
					0 - 6"	6" - 12"	12" - 18"	18" - 24"				
1	0-5				Augered	directly to	5 feet.		0-2" Asphalt			
2									2"-60" Black, di	* .		No well
3				5					some Silt, little	Gravel.	SM	installed.
4												
5				3	1				4			1
6												
7	5-9	S-1	48/30						Brown, moist, f		SM	1
8				2	ļ				some Silt, tr. Gr	avel, tr. Brick		
9					1				4			
10			10/04						Brown, moist to	wat fm	SC	
11	9 -13	S-2	48/24	300					SAND, some cl		50	
12				ļ					SAND, Some of	ayey Bitt.		
13				50					-			
14	12 17	S-3	48/24	50		<u>├</u> ──			Similar to 9-13' s	ample (wet).	SC	
15	13 - 17	5-5	40/24									1
16 17					<u> </u>			<u> </u>	-			
17				<u> </u>	Bottom	of boring a	at 17 feet		1		e.	1
19			+	1					1			
20	<u> </u>				†				1			
20	Well Scre	en	N/A	<u> </u>				NOTES:		-		
	Filter Pac		N/A						t at 10 feet.			
	Divider S		N/A					Soil sam	ple from 8-9 ft w	as submitted for	r laborato	ory analysi
	Annular S	Seal	N/A									
	Surface S	leal	N/A									

]

Sumple Set or: Set of Set of S	: n:	Con Ediso Consolidat EPI DP (Hurric Not survey CSP (inches) (solution)	ted Edisor cane)	n of New (MSL) Sta	York Casing Si Checked Protection andard Per (blow)	ze: By: n Level: netration 7 s/foot) 12" - 18"	Gost	MSG D Soil/Rock Descr	ry, f-m SAND, Gravel,	Soil Classification	B-16S 12/15/00 12/15/00 11 ft bg
g Method: Elevatio By: Samble Uterval (t) O-5	: n: Sample No.	DP (Hurric Not survey CSP	PID Sample (ppm) 2	Sta 0 - 6"	Checked Protection andard Per (blow)	By: n Level: netration 7 s/foot) 12" - 18"		MSG D Soil/Rock Descr 0-2" Asphalt 2"-60" Black, d some Silt, trace	Date Begun: Completed: Depth to Water iption ry, f-m SAND, Gravel,	Soil Classification	12/15/00 12/15/00 11 ft bg GUI Support OD No well
g Method: Elevatio By: Samble Uterval (t) O-5	: Sample No.	Not survey CSP	PID Sample (ppm) 2	Sta 0 - 6"	Protection andard Per (blow)	n Level: netration 7 s/foot) 12" - 18"		D Soil/Rock Descr 0-2" Asphalt 2"-60" Black, d some Silt, trace	Completed: Depth to Water iption ry, f-m SAND, Gravel,	Soil Classification	12/15/00 11 ft bg Unstruction Construction No well
Elevatio By: Sample Interval (ff) 0-5	:u Sample No.	CSP	د PID Sample (ppm)	Sta 0 - 6"	Protection andard Per (blow)	n Level: netration 7 s/foot) 12" - 18"		D Soil/Rock Descr 0-2" Asphalt 2"-60" Black, d some Silt, trace	Depth to Water iption ry, f-m SAND, Gravel,	Soil Classification	I1 ft bg Mell Construction Construction No well
o Sample o Interval (ft)	Sample No.		5	0 - 6"	andard Per (blow) 6" - 12"	netration 7 s/foot) 12" - 18"		Soil/Rock Descr 0-2" Asphalt 2"-60" Black, d some Silt, trace	ry, f-m SAND, Gravel,	Soil Classification	Well Construction
o Sample o Interval (ft)		Rec/Pen (inches)	5	0 - 6"	(blow) 6" - 12"	s/foot) 12" - 18"		0-2" Asphalt 2"-60" Black, d some Silt, trace	ry, f-m SAND, Gravel,		No well
	<u> </u>						18" - 24"	0-2" Asphalt 2"-60" Black, d some Silt, trace	Gravel,	SM	
	<u><u> </u></u>			Augered				0-2" Asphalt 2"-60" Black, d some Silt, trace	Gravel,	SM	
	<u> </u>							some Silt, trace	Gravel,	SM	
5-9	<u>S</u> 1							· · · ·	-		installed.
5-9	S 1		3					trace Brick, tra	ce Concrete.		1
5 - 9	S 1		3				1				
5-9	<u>S</u> 1			T			L	1			
5-9	<u>C</u> 1		1					1			
	2-1	48/34						Dark brown, m		SM	
			2					some Silt, little	Gravel.		
							ļ	4			
					L		ļ	l			
9 -13	S-2	48/40	300				<u> </u>	Brown, moist to		SM	
			ļ	ļ				SAND, some S	111.		
			ļ					4			
			50						ample (wet)	SM/GW	
13 - 17	S-3	48/40	<u> </u>	<b>_</b>	<u> </u>				-	DIVID O W	
		<u> </u>	<u> </u>				<u> </u>				
				Detterm	ofhoring	1 ht 17 feet	┼───		14).		
		<u> </u>		Bollom	T			4			
						1	+	1			
Wall Care		Ν/Δ		a			NOTES:	_L	an a		
Filter Pac Divider S	k eal	N/A N/A					Soils we	t at 11 feet.	was submitted f	for laborate	ory analysi
	ilter Pac Divider S Annular S	Vell Screen ilter Pack Divider Seal unrular Seal uurface Seal	Vell Screen N/A ilter Pack N/A Divider Seal N/A Annular Seal N/A	Vell Screen N/A ilter Pack N/A Divider Seal N/A nnular Seal N/A	13 - 17     S-3     48/40       I3 - 17     S-3     48/40       Ia - 10     Bottom       Ia - 10     Bottom       Vell Screen     N/A       Iiter Pack     N/A       Divider Seal     N/A       Annular Seal     N/A	13 - 17     S-3     48/40       Bottom of boring a       Bottom of boring a       Vell Screen     N/A       ilter Pack     N/A       Divider Seal     N/A       N/A     N/A	13 - 17     S-3     48/40       I3 - 17     Bottom of boring at 17 feet       I     Interval       Iter Pack     N/A       Iter Pack     N/A       Innular Seal     N/A	13 - 17     S-3     48/40     Image: Second state st	13 - 17       S-3       48/40       Similar to 9-13's         13 - 17       S-3       48/40       Similar to 9-13's         13 - 17       Similar to 9-13's       (8" seam of gray, and GRAVEL at         1       Bottom of boring at 17 feet       and GRAVEL at         1       NOTES:       Soils wet at 11 feet.         Vell Screen       N/A       Soils wet at 11 feet.         Divider Seal       N/A       Soil sample from 9-10 ft	13 - 17       S-3       48/40       Similar to 9-13' sample (wet).         13 - 17       S-3       48/40       (8" seam of gray, f-c SAND         13 - 17       Similar to 9-13' sample (wet).       (8" seam of gray, f-c SAND         11 - 1       Bottom of boring at 17 feet       and GRAVEL at 14').         11 - 1       Bottom of boring at 17 feet       Image: seam of gray, f-c SAND         11 - 1       Bottom of boring at 17 feet       Image: seam of gray, f-c SAND         11 - 1       Image: seam of gray, f-c SAND       Image: seam of gray, f-c SAND         11 - 1       Image: seam of gray, f-c SAND       Image: seam of gray, f-c SAND         11 - 1       Image: seam of gray, f-c SAND       Image: seam of gray, f-c SAND         12 - 1       Image: seam of gray, f-c SAND       Image: seam of gray, f-c SAND         13 - 1       Image: seam of gray, f-c SAND       Image: seam of gray, f-c SAND         14 - 1       Image: seam of gray, f-c SAND       Image: seam of gray, f-c SAND         12 - 1       Image: seam of gray, f-c SAND       Image: seam of gray, f-c SAND         12 - 1       Image: seam of gray, f-c SAND       Image: seam of gray, f-c SAND         13 - 1       Image: seam of gray, f-c SAND       Image: seam of gray, f-c SAND         14 - 1       Image: seam of gray, f-c SaND       Image: sea	13 - 17       S-3       48/40       Similar to 9-13' sample (wet).       Similar to 9-13' sample (wet).       SM/GW         13 - 17       S-3       48/40       Similar to 9-13' sample (wet).       SM/GW         13 - 17       Solution of boring at 17 feet       and GRAVEL at 14').       SM/GW         Well Screen       N/A       NOTES:       Soils wet at 11 feet.         Well Screen       N/A       Soils wet at 11 feet.       Soils sample from 9-10 ft was submitted for laborat         Numular Seal       N/A       Soil sample from 9-10 ft was submitted for laborat

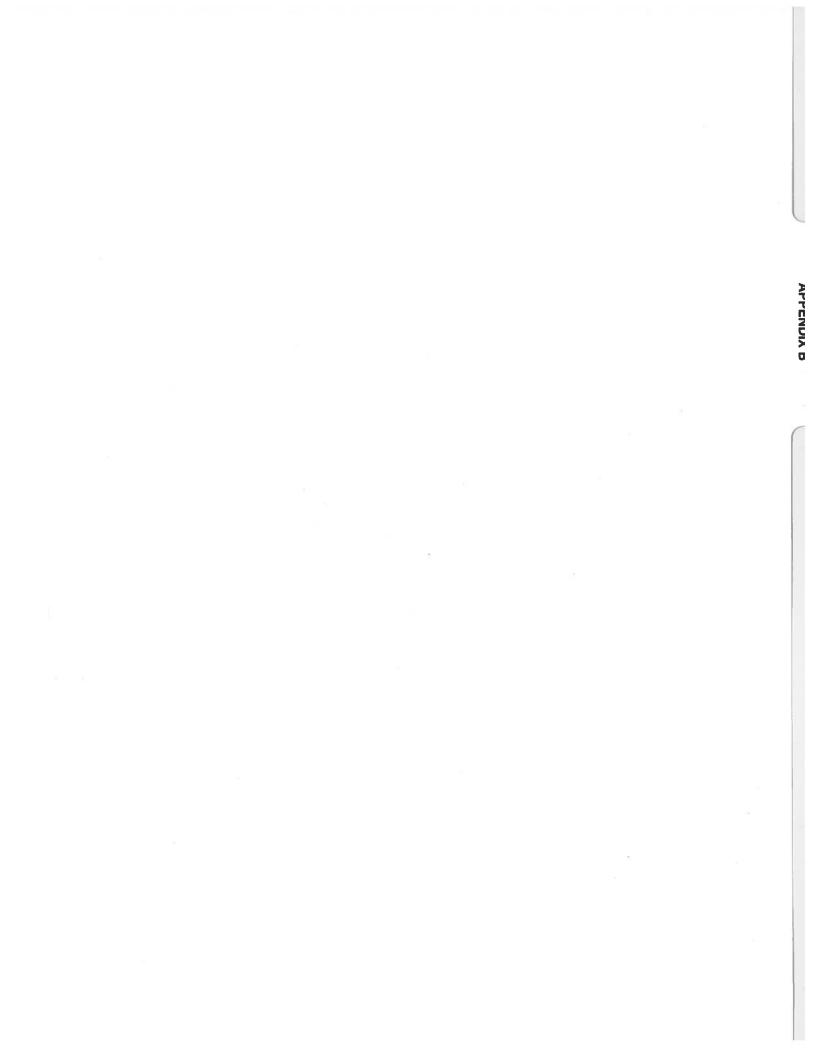
					-				ANY, INC			
Projec	:t:		Con Ediso				yn, New Y	ork				1 of 1
Client	and the second se		Consolida	ted Edisor	n of New							
	actor:		EPI			Casing S	ize:		3/4 -inch	Boring #.		B-17S
	ng Method	:	DP (Hurri	cane)						Date Begun:		12/15/00
	d Elevatio		Not survey	yed	(MSL)	Checked	By:		MSG	Completed:		12/15/00
	ed By:		CSP			Protectio	n Level:		D	Depth to Water	•	10 ft bgs
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta		netration 7 rs/foot)	ſest	Soil/Rock Descr	iption	Soil Classification	Well Construction
					0 - 6"	6" - 12"	12" - 18"	18" - 24"				
1	0-5				Augered	directly to	5 feet.		0-2" Asphalt			
2				15					2"-60" Black, d	ry, f-m SAND,	$\mathbf{SM}$	No well
3									some Silt, trace	Gravel.		installed.
4												
5												
6				5	1				]			
7	5-9	S-1	48/32		Slight pe	etroleum o	dor.		Similar to 0-5' s	ample. (moist)	SM	
8				10								
9												
10				1								
11	9 -13	S-2	48/40						Gray, moist to v		SC	
12				1				<u> </u>	some clayey Sil	t.		
13												
14				10				ļ				
15	13 - 17	S-3	48/42					ļ	Similar to 9-13' s	ample (wet).	SC	
16				10			<b> </b>		4			
17						1		<b> </b>	4			1
18					Bottom	of boring	at 17 feet		4			
19									-			
20												
	Well Scr Filter Pac Divider S Annular S Surface S	ck Seal Seal	N/A N/A N/A N/A N/A						t at 10 feet. ple from 8-9 ft w	vas submitted for	r laborato	ory analysis.

<b>JACQUES WHI</b>	<b>FFORD COMPANY, INC</b>
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1					JA	ACQUE	S WHI	<b>FFORD</b>	COMP	ANY, INC				
n	Projec	:t:		Con Ediso	n: 3rd Av	enue Yaro	d - Brookl	yn, New Y	ork				1 of	1
F	Client			Consolidat	ted Edisor	n of New								
	Contra			EPI			Casing Si	ze:		3/4 -inch	Boring #.	B-18S/	MW-18	S
- 4		ng Method	:	DP (Hurri	cane)						Date Begun:		12/14	/00
		d Elevatio		Not survey		(MSL)	Checked	By:		MSG	Completed:		12/20	)/00
	Logge			CSP		<u> </u>	Protection			D	Depth to Water	(in well):	11.5 ft	t. bgs
	Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta 0 - 6"	(blow	netration T s/foot) 12" - 18"		Soil/Rock Descr	iption	Soil Classification	Well Construction	
۳.			_										_	
ni	1	0-5		NA		Augered	directly to	5 feet bg	5	0-2" Asphalt	1 6	014	uniners and se	Constanting of
	2				15	L				2"-60" Dark bro		SM		
J,	3									SAND, some Si	lt.			
	4													diate part
1	5	5-9	S-1	48/30						Dark brown, mo		SM		
	6				3					some Silt, tr. Gi	avel, tr. Brick.			
	7												- 18 A	
n)	8				5								88 <u> </u>	
	9	9 - 13	S-2	48/12						Dark brown, mo	oist to wet, f-c	SC	<u>}</u>	_
1	10				5					SAND, some cl	ayey Silt, trace			
	11									Gravel				
	12				5		1							
	13	13 - 17	S-3	48/48						Brown, wet, f-n	n SAND	SM		
	14				10					some Silt.				
1	15			1			1			]				
	16				5					1				
	17			<u> </u>						1				
1	18			1	1	Bottom	of boring	at 17 feet		]				
	19				<u> </u>					1				
	20				1					1				
		Well Scro Filter Pac Divider S Annular S	k leal	8'-18' 5'-18' 2'-5' (Ben	tonite Ho	leplug)			Soil sam At comp	t at 13 feet. ple from 11-12 f letion of soil san	npling, borehole	was redri	lled to 1	.8'
		Surface S	eal	Flush mo		•			using 6-5 12/20/00	5/8" ID HSA and ).	4" monitoring	well was i	nstalled	on

				JA	ACQUE	S WHI	<b>FFORD</b>	COMP	ANY, INC				
Proje	ct:		Con Ediso				yn, New Y	/ork				1 of	1
Client	t:		Consolida	ted Edisor	n of New			-					
Contr	actor:		EPI			Casing Si	ize:		3/4 -inch	Boring #.	B-19S/.	MW-198	
Drilli	ng Method	:	DP (Hurri	cane)						Date Begun:		12/14	
Grow	nd Elevatio	on:	Not surve	yed	(MSL)	Checked			MSG	Completed:	// 11>	12/19	
Logg	ed By:		CSP			Protectio	n Level:		D	Depth to Water	· · · · · · · · · · · · · · · · · · ·	11.8 ft	. bgs
Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	St	andard Per (blow	netration T rs/foot)	ſest	Soil/Rock Descr	iption	Soil Classification	Well Construction	
					0 - 6"	6" - 12"	12" - 18"	18" - 24"	7				
$\frac{1}{1}$	0-4		NĂ			directly to			0-2" Asphalt				
2	0-4			70					2"-48" Brown, (	iry, f-m SAND	SW		
3									little Silt, trace	Cinders			
4				15								-CONTRACTOR	ames
5	4 - 8	S-1	48/36	15					Light brown, m	oist, f-m SAND	SW		
6				25					little Silt.				
7									]				
8				150					]				- 33
9	8 - 12	S-2	48/24						18" as above ov		SW		_
10									2" red-brown, n				_
11									f-m SAND, littl				_
12				100			L		4" gray, wet, f-o		SW		- 33
13									little Silt, little		~ ~		- 33
14	12-16	S-3	48/12				L		Red-brown, we	t, f-m SAND	SM		_
15								ļ	some Silt.			_	-
16				6			<u> </u>		4		0117/02.4		-
17	16 - 20	S-4	48/0				<b> </b>		No recovery. (A		SW/SM		-
18							<b> </b>		appear similar to	12-10 sample).		119914	
19								<b> </b>	4				
20		L	<u> </u>		Bottom	of boring	at 20 feet			<u></u>	l	L	
	Well Scree Filter Pac Divider S Annular S Surface S	ck Seal Seal	-	ntonite Ho ounted roa	-			Soil sam At comp	t at 12 feet. ple from 10-11 f oletion of soil san 5/8" ID HSA and	npling, borehole	was redri	lled to 1	8'

1					JA	ACQUE	S WHIT	rford	COMP	ANY, INC			
Í	Projec	:t:		Con Ediso	n: 3rd Av	enue Yar	d - Brookl	yn, New Y	ork				1 of 1
	Client			Consolidat									
. P	Contra			EPI		Casing Size:				3/4 -inch	Boring #.	MW-20S	
1	Drillir	ng Method	:	DP (Hurri	cane)						Date Begun:		12/15/00
		d Elevatio		Not survey	/ed	(MSL)	Checked			MSG	Completed:		12/19/00
1	Logge	d By:		CSP			Protection	n Level:		D	Depth to Water	r (in well)	: 11.20 ft. bgs
	Depth (ft)	Sample Interval (ft)	Sample No.	Rec/Pen (inches)	PID Sample (ppm)	Sta	× ·	s/foot)		Soil/Rock Descr	iption	Soil Classification	Well Construction
3	1					0 - 6"	6" - 12"	12" - 18"	18" - 24"				
	1	0-5		NA		Augered	directly to	5 feet bg	s.	0-2" Asphalt			Annual and a second s
1	2				10		Τ			]2"-60" Black, d	•	SM	
l,	3									some Silt, trace	Gravel.		
	4												
1	5	5-9	S-1	48/24						Similar to 0-5 s	ample (moist).	SM	
l	6				ND					]			
	7												
1	8				ND					_			
ł	9	9 - 13	S-2	48/24						Gray, moist to v		SM	
1	10				ND					SAND, some Si	ilt, little Gravel.		홍정 3월
i	11												<b>3</b> 3 333
	12				ND								883 <b></b> 888
ł	13	13 - 17	S-3	48/24						Similar to 9-13	sample (wet).	SM	
	14				ND							1	
i	15									4			
1	16									4			1993 — 1993 1993 — 1993
	17									4		ļ	· 新兴—— 新新
1	18					Bottom	of boring	at 17 feet		4			996: <b>1</b> 663
	19							L		4			
	20						<u> </u>			<u> </u>			
		Well Scre Filter Pac Divider S Annular S Surface S	k Seal Seal	8'-18' 5'-18' 2'-5' (Ben Flush mo					Soil sam At comp	t at 10 feet. ple from 8-9 ft w detion of soil san 5/8" ID HSA and	npling, borehole	was redri	lled to 18'



ETL

## Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

12/28/2000

#### Custody Document: K5841

Received: 12/18/2000 16:20 Sampled by: N/A

### Client: Con Edison-Accounts Payable (18200)

PO Box 799, Cooper Station New York, NY 10276



Project: Con Ed

31-01 20th Ave. Long Island City, NY 11105

Manager: J. Celestine

Respectfully submitted,

Post-it* Fax Note	7671	Date VW # of 34
TOUCHIE		From
Co./Dept.		Co.
Phone #		Phone #
Fax #		Fax #

NYS Lab ID # 10969 NJ Cert. # 73812 CT Cert. # PH0645 MA Cert. # NY061 PA Cert. # 68-535 VA Cert. # 108 NH Cert. # 252592-BA RI Cert. # 161



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# Environmental Testing Laboratories, Inc.

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

12/28/2000

## EPA 8021B Stars Memo Cmpds

Sample: K5841-4

Collected: 12/13/2000 10:20

Client Sample ID: 00-11784-004 Matrix: Liquid Remarks: See Case Narrative Analyzed Date: 12/19/2000

Type: Composite

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.23	0.23	ppb	U
71-43-2	Benzene	0.14	0.14	ppb	U
108-88-3	Toluene	0.16	0.16	ppb	U
100-41-4	Ethylbenzene	0.21	0.21	ppb	U
108-38-3	m,p-xylene	0.45	0.45	ppb	U
95-47-6	o-xylene	0.27	0.27	ppb	U
1330-20-7	Xylenes(Total)	0.72	0.72	ppb	U
98-82-8	Isopropylbenzene	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.28	0.28	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.30	0.30	ppb	U
98-06-6	tert-Butylbenzene	0.29	0.29	ррб	U
95-63-6	1,2,4-Trimethylbenzene	0.25	0.25	ppb	U
135-98-8	sec-Butylbenzene	0.25	0.25	ррь	U
99-87-6	p-Isopropyltoluene	0.31	0.31	ppb	U
104-51-8	n-Butylbenzene	0.27	0.27	ppb	U
91-20-3	Naphthalene	0.18	0.18	ppb	U



#### ETL

#### → CON ED MAIN

# Environmental Testing Laboratories, Inc.

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

12/28/2000

Collected: 12/13/2000 12:00

### EPA 8021B Stars Memo Cmpds

Sample: K5841-5

Client Sample ID: 00-11784-005 Matrix: Liquid Remarks: See Case Narrative Analyzed Date: 12/19/2000

Type: Composite

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.23	0.23	ppb	U
	Benzene	0.14	0.14	ppb	U
108-88-3	Toluene	0.16	0.16	ppb	U
	Ethylbenzene	0.21	0.21	ppb	U
	m,p-xylene	0.45	0.45	ppb	U
	o-xylene	0.27	0.27	ррб	U
1330-20-7	Xylenes(Total)	0.72	0.72	ppb	U
98-82-8	Isopropylbenzene	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.28	0.28	ррь	U
108-67-8	1,3,5-Trimethylbenzene	0.30	0.30	ррб	U
	tert-Butylbenzene	0.29	0.29	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.25	0.25	ppb	U
	sec-Butylbenzene	0.25	0.25	ррб	U
	p-Isopropyltoluene	0.31	0.31	ppb	U
	n-Butylbenzene	0.27	0.27	ррь	U
91-20-3	Naphthalene	0.18	0.18	ppb	U



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#### 12/28/2000 17:29 FAX 631 249 8344

#### ETL

2004/034

# Environmental Testing Laboratories, Inc.

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

12/28/2000

## TCLP 8021 Stars Memo List

Sample: K5841-1

Client Sample ID: 00-11784-001 Matrix: Soil Remarks: See Case,Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/13/2000 10:15 % Solid: 85.6%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0028	ppm	
71-43-2	Benzene	0.00014	0.00014	ppm	U
108-88-3	Toluene	0.00016	0.0011	ррт	
100-41-4	Ethylbenzene	0.00021	0.00080	ppm	
108-38-3	m,p-xylene	0.00045	0.0047	ppm	
95-47-6	o-xylene	0.00027	0.0019	ppm	
1330-20-7	Xylenes(Total)	0.00072	0.0066	ppm	
98-82-8	Isopropylbenzene	0.00021	0.00021	ppm	U
103-65-1	n-Propylbenzene	0.00028	0.00070	ррт	
108-67-8	1,3,5-Trimethylbenzene	0.00030	0.0023	ppm	
95-63-6	1,2,4-Trimethylbenzene	0.00025	0.0054	ррт	
135-98-8	sec-Butylbenzene	0.00025	0.00025	ppm	U
99-87-6	p-lsopropyltoluene	0.00031	0.00031	ppm	U
104-51-8	n-Butylbenzene	0.00027	0.00027	ppm	U
91-20-3	Naphthalene	0.00018	0.0048	ppm	
98-06-6	tert-Butylbenzene	0.00029	0.00029	ppm	U



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

12/28/2000

## TCLP 8021 Stars Memo List

Sample: K5841-2

Client Sample ID: 00-11784-002 Matrix: Soil Remarks: See Case Marrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/13/2000 10:50 % Solid: 89.2%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0028	ррт	
71-43-2	Benzene	0.00014	0.00014	ppm	U
108-88-3	Toluene	0.00016	0.00016	ppm	U
100-41-4	Ethylbenzene	0.00021	0.00021	ppm	U
108-38-3	m,p-xylene	0.00045	0.00045	ррт	U
95-47-6	o-xylene	0.00027	0.00027	ppm	U
	Xylenes(Total)	0.00072	0.00072	ppm	U
	Isopropylbenzene	0.00021	0.00021	ppm	U
	n-Propylbenzene	0.00028	0.00028	ppm	U
	1,3,5-Trimethylbenzene	0.00030	0.00050	ppm	•
	1,2,4-Trimethylbenzene	0.00025	0.00025	ррт	U
135-98-8	sec-Butylbenzene	0.00025	0.00025	ррт	U
99-87-6	p-lsopropyltoluene	0.00031	0.00031	ppm	U
104-51-8	n-Butylbenzene	0.00027	0.00027	ppm	U
	Naphthalene	0.00018	0.00018	ppm	U
	tert-Butylbenzene	0.00029	0.00029	ppm	U



#### 12/28/2000 17:29 FAX 631 249 8344

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# Environmental Testing Laboratories, Inc.

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12/28/2000

## TCLP 8021 Stars Memo List

#### Sample: K5841-3

Client Sample ID: 00-11784-003 Matrix: Soil Remarks: See Case/Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/13/2000 15:10 % Solid: 86.8%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0028	ppm	
71-43-2	Benzene	0.00014	0.00014	ppm	U
108-88-3	Toluene	0.00016	0.00016	ppm	U
100-41-4	Ethylbenzene	0.00021	0.00021	ppm	U
108-38-3	m,p-xylene	0.00045	0.00045	ppm	U
95-47-6	o-xylene	0.00027	0.00027	ppm	U
1330-20-7	Xylenes(Total)	0.00072	0.00072	ppm	U
98-82-8	Isopropylbenzene	0.00021	0.00021	ppm	U
103-65-1	n-Propylbenzene	0.00028	0.00028		U
108-67-8	1,3,5-Trimethylbenzene	0.00030	0.00030	ррт	U
95-63-6	1,2,4-Trimethylbenzene	0.00025	0.00025	ppm	U
135-98-8	sec-Butylbenzene	0.00025			U
99-87-6	p-isopropyltoluene	0.00031	0.00031	ppm	U
104-51-8	n-Butylbenzene	0.00027	0.00027	ppm	U
91-20-3	Naphthalene	0.00018			U
98-06-6	tert-Butylbenzene	0.00029	0.00029	ppm	U



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

12/28/2000

## **TCLP 8021 Stars Memo List**

Sample: K5841-6 Client Sample ID: 00-11784-006 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 08:10 % Solid: 77.5%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0031	ppm	
71-43-2	Benzene	0.00014	0.0018	ppm	
108-88-3	Toluene	0.00016	0.0029	ррт	
100-41-4	Ethylbenzene	0.00021	0.0079	ppm ·	
108-38-3	m,p-xylene	0.00045	0.020	ppm	
95-47-6	o-xylene	0.00027	0.0035	ppm	
1330-20-7	Xylenes(Total)	0.00072	0.023	ррпп	
98-82-8	Isopropylbenzene	0.00021	0.0060	ppm	
103-65-1	n-Propylbenzene	0.00028	0.0091	ppm	
108-67-8	1,3,5-Trimethylbenzene	0.00030	0.037	ppm	
95-63-6	1,2,4-Trimethylbenzene	0.00025	0.076	ppm	
135-98-8	sec-Butylbenzene	0.00025	0.00025	ppm	U
99-87-6	p-lsopropyltoluene	0.00031	0.0033	ppm	
104-51-8	n-Butylbenzene	0.00027	0.00027	ppm	U
91-20-3	Naphthalene	0.00018	0.0026	ррт	
98-06-6	tert-Butylbenzene	0.00029	0.00029	ppm	U



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## Environmental Testing Laboratories, Inc.

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12/28/2000

## TCLP 8021 Stars Memo List

<u>Sample: K5841-7</u>

Client Sample ID: 00-11784-007 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 09:50 % Solid: 77.7%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0027	ppm	
71-43-2	Benzene	0.00014	0.00014	ppm	U
108-88-3	Toluene	0.00016	0.00016	ppm	U
100-41-4	Ethylbenzene	0.00021	0.00021	ppm	U
108-38-3	m,p-xylene	0.00045	0.00045	ppm	U
95-47-6	o-xylene	0.00027	0.00027		U
1330-20-7	Xylenes(Total)	0.00072	0.00072	ppm	U
98-82-8	Isopropylbenzene	0.00021	0.00021	ppm	U
103-65-1	n-Propylbenzene	0.00028	0.00028	ppm	U
108-67-8	1,3,5-Trimethylbenzene	0.00030	0.00030	ppm	U
95-63-6	1,2,4-Trimethylbenzene	0.00025	0.00025	ppm	U
135-98-8	sec-Butylbenzene	0.00025	0.00025	ppm	U
99-87-6	p-Isopropyltoluene	0.00031	0.00031	ppm	U
104-51-8	n-Butylbenzene	0.00027	0.00027	ppm	U
91-20-3	Naphthalene	0.00018	0.00018	ppm	U
98-06-6	tert-Butylbenzene	0.00029	0.00029	ppm	U



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

12/28/2000

## TCLP 8021 Stars Memo List

Sample: K5841-8

Client Sample ID: 00-11784-008 Matrix: Soil Remarks: See Case/Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 11:00 % Solid: 77.6%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0025	ppm	
	Benzene	0.00014	0.00014	ppm	U
	Toluene	0.00016	0.00062	ppm	
100-41-4		0.00021	0.00021	ppm	U
	m,p-xylene	0.00045	0.00045	ррт	U
	o-xylene	0.00027	0.00027	ppm	U
	Xylenes(Total)	0.00072	0.00072	ppm	U
	Isopropyibenzene	0.00021	0.00021	ррт	U
	n-Propylbenzene	0.00028	0.00028	ppm	U
	1,3,5-Trimethylbenzene	0.00030	0.00030	ppm	U
	1,2,4-Trimethylbenzene	0.00025	0.00025	ppm	U
	sec-Butylbenzene	0.00025	0.00025	ppm	U
	p-Isopropyltoluene	0.00031	0.00031	ррт	U
	n-Butylbenzene	0.00027	0.00027	ppm	U
	Naphthalene	0.00018	0.00018	ppm	U
	tert-Butylbenzene	0.00029	0.00029	ppm .	U



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

12/28/2000

## TCLP 8021 Stars Memo List

Sample: K5841-9 Client Sample ID: 00-11784-009 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000<sup>-</sup>

Type: Composite

Collected: 12/14/2000 12:10 % Solid: 88.5%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0026	ppm	
71-43-2	Benzene	0.00014	0.00014	ppm	U
108-88-3	Toluene	0.00016	0.00016	ррт	U
100-41-4	Ethylbenzene	0.00021	0.00021	ppm	U
108-38-3	m,p-xylene	0.00045	0.00045	ррт	U
95-47-6	o-xylene	0.00027	0.00027	ppm	U
1330-20-7	Xylenes(Total)	0.00072	0.00072	ррт	U
98-82-8	Isopropylbenzene	0.00021	0.00021	ppm	U
103-65-1	n-Propylbenzene	0.00028	0.00028	ррт	U
108-67-8	1,3,5-Trimethylbenzene	0.00030	0.00030	ppm	U
95-63-6	1,2,4-Trimethylbenzene	0.00025	0.00025	ppm	U
135-98-8	sec-Butylbenzene	0.00025	0.00025	ppm	U
99-87-6	p-Isopropyltoluene	0.00031	0.00031	ppm	U
104-51-8	n-Butylbenzene	0.00027	0.00027	ppm	U
91-20-3	Naphthalene	0.00018	0.00018	ppm	U
98-06-6	tert-Butylbenzene	0.00029	0.00029	ррт	U



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

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12/28/2000

## **TCLP 8021 Stars Memo List**

Sample: K5841-10

Client Sample ID: 00-11784-010 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 13:30 % Solid: 82.2%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0027	ppm	
71-43-2	Benzene	0.00014	0.00014	ppm	U
108-88-3	Toluene	0.00016	0.00016	ррт	U
100-41-4	Ethylbenzene	0.00021	0.00021	ppm	U
108-38-3	m,p-xylene	0.00045	0.00045	ppm	U
95-47-6	o-xylene	0.00027	0.00027	ppm	U
1330-20-7	Xylenes(Total)	0.00072	0.00072	ppm	U
98-82-8	Isopropylbenzene	0.00021		ppm	U
103-65-1	n-Propylbenzene	0.00028	0.00028		U
108-67-8	1,3,5-Trimethylbenzene	0.00030	0.00030	ppm	U
95-63-6	1,2,4-Trimethylbenzene	0.00025	0.00025	ppm	U
135-98-8	sec-Butylbenzene	0.00025	0.00025	ppm	U
99-87-6	p-lsopropyltoluene	0.00031	0.00031	ppm	U
104-51-8	n-Butylbenzene	0.00027	0.00027	ppm	U
91-20-3	Naphthalene	0.00018	0.00018	ppm	U
98-06-6	tert-Butylbenzene	0.00029	0.00029	ppm	U



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### Environmental Testing Laboratories, Inc.

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

12/28/2000

### TCLP 8021 Stars Memo List

Sample: K5841-11

Client Sample ID: 00-11784-011 Matrix: Soil Remarks: See Case/Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 14:00 % Solid: 91.8%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	МТВЕ	0.00023	0.0038	ppm	
71-43-2	Benzene	0.00014	0.00014	ppm	10
108-88-3	Toluene	0.00016	0.00016	ppm	U
100-41-4	Ethylbenzene	0.00021	0.0015	ppm	
108-38-3	m,p-xylene	0.00045	0.0015	ppm	
95-47-6	o-xylene	0.00027	0.00080	ppm	
1330-20-7	Xylenes(Total)	0.00072	0.0023	ppm	
98-82-8	Isopropylbenzene	0.00021	0.00060	ppm	
103-65-1	n-Propylbenzene	0.00028	0.0013	ррт	
108-67-8	1,3,5-Trimethylbenzene	0.00030	0.0019	ррт	
95-63-6	1,2,4-Trimethylbenzene	0.00025	0.0054	ppm	
135-98-8	sec-Butylbenzene	0.00025	0.00025	ßbw	U
99-87-6	p-isopropyitoluene	0.00031	0.00031	ррт	U
104-51-8	n-Bulylbenzene	0.00027	0.00027	ppm	U
91-20-3	Naphthalene	0.00018	0.050	ppm	
98-06-6	tert-Butylbenzene	0.00029	0.00029	ppm	U



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## Environmental Testing Laboratories, Inc.

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

12/28/2000

#### **TCLP 8021 Stars Memo List**

Sample: K5841-12

Client Sample ID: 00-11784-012 Matrix: Soil Remarks: See Case/Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 15:00 % Solid: 88.2%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	МТВЕ	0.00023	0.0026	ppm	
71-43-2	Benzene	0.00014	0.00014	ppm	U
108-88-3	Toluene	0.00016	0.00016	ppm	U
100-41-4	Ethylbenzene	0.00021	0.00021	ррт	U
108-38-3	m,p-xylene	0.00045	0.00045	ррт	·U
95-47-6	o-xylene	0.00027	0.00027	ppm	U
1330-20-7	Xylenes(Total)	0.00072	0.00072	ppm	U
98-82-8	Isopropylbenzene	0.00021	0.00021	ppm	U
103-65-1	n-Propylbenzene	0.00028	0.00028	ррт	U
108-67-8	1,3,5-Trimethylbenzene	0.00030	0.0019	ррт	
95-63-6	1,2,4-Trimethylbenzene	0.00025	0.00070	ppm	
135-98-8	sec-Butylbenzene	0.00025	0.00025	ppm	U
99-87-6	p-Isopropyltoluene	0.00031	0.00031	ppm	U
104-51-8	n-Butylbenzene	0.00027		ppm	U
91-20-3	Naphthalene	0.00018	0.0054		
98-06-6	tert-Butylbenzene	0.00029	0.00029	ppm	U



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12/28/2000

### TCLP 8021 Stars Memo List

Sample: K5841-13 Client Sample ID: 00-11784-013 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 16:00 % Solid: 87.5%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0025	ppm	
	Benzene	0.00014	0.00014	ррт	U
108-88-3	Toluene	0.00016	0.00016	ppm	U
100-41-4	Ethylbenzene	0.00021	0.00021	ppm .	U
	m,p-xylene	0.00045	0.00045	ppm	U
	o-xylene	0.00027	0.00027	ppm	U
	Xylenes(Total)	0.00072	0.00072	ppm	U
	Isopropylbenzene	0.00021	0.00021	ppm	U
	n-Propylbenzene	0.00028	0.00028	ppm	U
	1,3,5-Trimethylbenzene	0.00030	0.00030	ppm	U
	1,2,4-Trimethylbenzene	0.00025	0.00025	ppm	U
	sec-Butylbenzene	0.00025	0.00025	ррт	U
	p-Isopropyitoluene	0.00031	0.00031	ppm	U
	n-Butylbenzene	0.00027	0.00027	ррт	U
	Naphthalene	0.00018	0.092	ppm	
	tert-Butylbenzene	0.00029	0.00029	ppm	U



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# Environmental Testing Laboratories, Inc.

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

12/28/2000

### TCLP 8021 Stars Memo List

Sample: K5841-14

Client Sample ID: 00-11784-014 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000

22.0

Type: Composite

Collected: 12/15/2000 10:20 % Solid: 88.3%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0062	ppm	
_	Benzene	0.00014	0.0010	ppm	
108-88-3	Toluene	0.00016	0.00016	ppm	U
100-41-4	Ethylbenzene	0.00021	0.0015	ppm	
	m,p-xylene	0.00045	0.0017	ppm	
	o-xylene	0.00027	0.00027	ppm	U
	Xylenes(Total)	0.00072	0.0017	ppm	
	Isopropylbenzene	0.00021	0.0014	ppm	
	n-Propylbenzene	0.00028	0.0021	ppm	
	1,3,5-Trimethylbenzene	0.00030	0.0011	ppm	
	1,2,4-Trimethylbenzene	0.00025	0.00025	ppm	U
	sec-Butylbenzene	0.00025	0.00025	ppm	U
	p-lsopropyltoluene	0.00031	0.0069	ррт	
	n-Butylbenzene	0.00027	0.00027	ppm	U
	Naphthalene	0.00018	0800.0	ppm	
	tert-Butylbenzene	0.00029	0.00029	ppm	U



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# Environmental Testing Laboratories, Inc.

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12/28/2000

### TCLP 8021 Stars Memo List

Sample: K5841-15

Client Sample ID: 00-11784-015 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/15/2000 11:00 % Solid: 86.6%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.00023	0.0025	ррт	
	Benzene	0.00014	0.00014	рргл	U
108-88-3		0.00016	0.00016	ppm	U
	Ethylbenzene	0.00021	0.00021	ppm	U
	m,p-xylene	0.00045	0.00045	ppm	U
	o-xylene	0.00027	0.00027	ppm	U
	Xylenes(Total)	0.00072	0.00072	ppm	U
	Isopropylbenzene	0.00021	0.00021	ppm	U
	n-Propylbenzene	0.00028	0.00028	ppm	U
	1,3,5-Trimethylbenzene	0.00030	0.00060	ppm	
	1,2,4-Trimethylbenzene	0.00025	0.00025	ppm	U
	sec-Butylbenzene	0.00025	1	ppm	U
	p-lsopropyltoluene	0.00031	0.00031	ppm	U
	n-Butylbenzene	0.00027	0.00027	ppm	U
	Naphthalene	0.00018		ppm	
	tert-Butylbenzene	0.00029			- U



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

12/28/2000

### TCLP Stars Memo Base Neutrals

Sample: K5841-1

Client Sample ID: 00-11784-001 Matrix: Soil Remarks: Analyzed Date: 12/30/1899

Type: Composite

Collected: 12/13/2000 10:15 % Solid: 85.6%

Cas No	Analyte	MDL	Concentration	Units	Q
	Naphthalene	0.00089	0.0027	ppm	
	Acenaphthene	0.00075	0.0012	ppm	
	Fluorene	0.00068	0.00068	ppm	U
	Phenanthrene	0.00059	0.00059	ppm	U
	Anthracene	0.00053	0.00053	ppm	U
	Fluoranthene	0.00047	0.00047	ppm	U
129-00-0		0.00053	0.00053	ppm	U
	Benzo(a)anthracene	0.00048	0.00048	ppm	U
	Chrysene	0.00056	0.00056	ppm	U
	Benzo(b)fluoranthene	0.00045	0.00045	ppm	U
	Benzo(k)fluoranthene	0.00029	0.00029	ppm	U
	Benzo(a)pyrene	0.00036	0.00036	ppm	U
	Indeno(1,2,3-cd)pyrene	0.00045	0.00045	ppm	U
	Dibenzo(a,h)anthracene	0.00047	0.00047	ppm	U
	Benzo(g,h,i)perylene	0.00040	0.00040	ppm	U



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12/28/2000

#### **TCLP Stars Memo Base Neutrals**

Sample: K5841-2

Client Sample ID: 00-11784-002 Matrix: Soil Remarks: Analyzed Date: 12/30/1899

Type: Composite

Collected: 12/13/2000 10:50 % Solid: 89.2%

Cas No	Analyte	MDL	Concentration	Units	0
91-20-3	Naphthalene	0.00089	0.00025	ppm	J
83-32-9	Acenaphthene	0.00075	0.00065	ppm	J
86-73-7	Fluorene	0.00068	0.00026	ppm	J
85-01-8	Phenanthrene	0.00059	0.00077	ppm	
120-12-7	Anthracene	0.00053	0.00053	ppm	U
206-44-0	Fluoranthene	0.00047	0.00023	ppm	J
129-00-0	Pyrene	. 0.00053	0.00053	ppm	U
56-55-3	Benzo(a)anthracene	0.00048	0.00048	ppm	U
218-01-9	Chrysene	0.00056	0.00056	ppm	U
205-99-2	Benzo(b)fluoranthene	0.00045	0.00045	ppm	U
207-08-9	Benzo(k)fluoranthene	0.00029	0.00029	ррт	U
50-32-8	Benzo(a)pyrene	0.00036	0.00036	ppm	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.00045	0.00045	ppm	U
53-70-3	Dibenzo(a,h)anthracene	0.00047	0.00047	ppm	U
191-24-2	Benzo(g,h,i)perylene	0.00040	0.00040	ppm	U



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12/28/2000

# **TCLP Stars Memo Base Neutrals**

Sample: K5841-3

Client Sample ID: 00-11784-003 Matrix: Soil Remarks: Analyzed Date: 12/30/1899

Type: Composite

Collected: 12/13/2000 15:10 % Solid: 86.8%

	Analyte	MDL	Concentration	Units	Q
Cas No		0.00089	0.00089	ppm	U
	Naphthalene			ppm	U
83-32-9	Acenaphthene	0.00075			
86-73-7	Fluorene	0.00068		ppm	
	Phenanthrene	0.00059		ppm	U
	Anthracene	0.00053	0.00053	ppm	U
		0.00047	0.00047	ppm	U
	Fluoranthene	0.00053	0.00053	mqq	U
129-00-0		0.00048	1		
56-55-3	Benzo(a)anthracene				
218-01-9	Chrysene	0.00056			
	Benzo(b)fluoranthene	0.00045			U
	Benzo(k)fluoranthene	0.00029	0.00029	ppm	U
		0.00036	0.00036	ppm	U
-	Benzo(a)pyrene	0.00045		ррт	U
	Indeno(1,2,3-cd)pyrene	0.00047			U
53-70-3	Dibenzo(a,h)anthracene				- U
191-24-2	Benzo(g,h,i)perylene	0.00040	0.00040	ppm	



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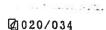
### **TCLP Stars Memo Base Neutrals**

Sample: K5841-6 Client Sample ID: 00-11784-006 Matrix: Soil Remarks: Analyzed Date: 12/30/1899

Type: Composite

Collected: 12/14/2000 08:10 % Solid: 77.5%

Cas No	Analyte	MDL	Concentration	Units	C
	Naphthalene	0.00089	0.0016	ppm	
	Acenaphthene	0.00075	0.0044	ppm	
	Fluorene	0.00068	0.0018	ppm .	
	Phenanthrene	0.00059	0.0041	ppm	
		0.00053	0.00047	ppm	J
	Anthracene	0.00047	0.00049		
	Fluoranthene	0.00053		the second se	J
129-00-0		0.00048			U
	Benzo(a)anthracene	0.00056	and the second se		- U
	Chrysene	0.00045			
	Benzo(b)fluoranthene	0.00029			
	Benzo(k)fluoranthene	0.00025			
	Benzo(a)pyrene	0.00030			
	Indeno(1,2,3-cd)pyrene	0.00043			
	Dibenzo(a,h)anthracene	0.00047			Ū
191-24-2	Benzo(g,h,i)perylene	0.00040	0.00040	[PP.I.	



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12/28/2000

# **TCLP Stars Memo Base Neutrals**

Sample: K5841-7

Type: Composite

Collected: 12/14/2000 09:50 % Solid: 77.7%

Client Sample ID: 00-11784-007 Matrix: Soil Remarks: Analyzed Date: 12/30/1899

		MDL	Concentration	Units	Q
Cas No	Analyte	0.00089		ppm	U
91-20-3	Naphthalene		0.00075		U
83-32-9	Acenaphthene	0.00075			U
	Fluorene	0.00068	0.00068	ppm	
	Phenanthrene	0.00059	0.00059	ppm ·	U
		0.00053	0.00053	ppm	U
	Anthracene	0.00047	0.00047	ppm	U
	Fluoranthene	0.00053			U
129-00-0					10
56-55-3	Benzo(a)anthracene	0.00048			U
218-01-9	Chrysene	0.00056		1	
	Benzo(b)fluoranthene	0.00045			U
203-39-2	Benzo(k)fluoranthene	0.00029	0.00029	ppm	U
		0.00036	0.00036	ppm	U
	Benzo(a)pyrene	0.00045		ppm	U
	Indeno(1,2,3-cd)pyrene	0.00047			U.
53-70-3	Dibenzo(a,h)anthracene				-lu
	Benzo(g,h,i)perylene	0.00040	0.00040		



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

12/28/2000

### **TCLP Stars Memo Base Neutrals**

Sample: K5841-8 Client Sample ID: 00-11784-008

Matrix: Soil Remarks: Type: Composite

Collected: 12/14/2000 11:00 % Solid: 77.6%

0.00089			
0.00003	0.00089	ppm	U
0.00075	0.00075	ррт	U
			-10
0.00053	0.00053	ppm	U
0.00047	0.00047	ppm	U
0.00053	0.00053	· mqq	U
	0.00048	mag	U
			U
			U
0.00045			
0.00029	0.00029	ppm	U
0.00036	0.00036	ppm	U
0.00045	0.00045	ppm	U
			U
			U
	0.00068 0.00059 0.00053 0.00047 0.00053 0.00048 0.00048 0.00045 0.00045 0.00029 0.00029 0.00036 0.00045 0.00045	0.00068         0.00068           0.00059         0.00059           0.00053         0.00053           0.00047         0.00047           0.00053         0.00053           0.00053         0.00053           0.00047         0.00047           0.00048         0.00048           0.00056         0.00056           0.00045         0.00045           0.00029         0.00029           0.00036         0.00036           0.00045         0.00045           0.00047         0.00047	0.00068         0.00068         ppm           0.00059         0.00059         ppm           0.00053         0.00053         ppm           0.00047         0.00047         ppm           0.00053         0.00053         ppm           0.00053         0.00053         ppm           0.00053         0.00047         ppm           0.00053         0.00053         ppm           0.00048         0.00048         ppm           0.00056         0.00056         ppm           0.00045         0.00045         ppm           0.00029         0.00029         ppm           0.00036         0.00036         ppm           0.00045         0.00045         ppm           0.00045         0.00045         ppm



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

12/28/2000

### **TCLP Stars Memo Base Neutrals**

Sample: K5841-13 Client Sample ID: 00-11784-013 Matrix: Soil -Remarks: Analyzed Date: 12/30/1899

Type: Composite

Collected: 12/14/2000 16:00 % Solid: 87.5%

Cas No	Analyte	MDL	Concentration	Units	C
	Naphthalene	0.00089	0.085	ррп	
	Acenaphthene	0.00075	0.018	ppm	
	Fluorene	0.00068	0.028	ppm	
	Phenanthrene	0,00059	0.043	ppm	
		0.00053	0.0079	ррт	1
	Anthracene	0.00047	0.0076	ppm	1
	Fluoranthene	0.00053	0.0045	ррп	+-
129-00-0		0.00048	0.00027		J
	Benzo(a)anthracene	0.00056	0.00022		J
	Chrysene	0.00045		ppm	U
	Benzo(b)fluoranthene	0,00029		1	U
	Benzo(k)fluoranthene	0.00036			- <del> </del> U
	Benzo(a)pyrene	0.00045		1	- U
	Indeno(1,2,3-cd)pyrene	0.00047			
	Dibenzo(a,h)anthracene	0.00040			
191-24-2	Benzo(g,h,i)perylene	0.00040			



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

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12/28/2000

Lead

Sample: K5841-1

Client Sample ID: 00-11784-001 Matrix: Soil Remarks: . Analyzed Date: 12/27/2000

Type: Composite

1	Cas No	Analyte	MDL	Concentration	Units	u	ł
ļ		Lead	0.15	26.8	ppm		ļ
	1400 02 1						

Sample: K5841-2

Client Sample ID: 00-11784-002 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Type: Composite

Collected: 12/13/2000 10:50 % Solid: 89.2%

Collected: 12/13/2000 10:15

% Solid: 85.6%

ſ	Cas No	Analyte	MDL	Concentration	Units	Q	
	7439-92-1	Lead	0.15	20.7	ppm		

Sample: K5841-3

Client Sample ID: 00-11784-003 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Type: Composite

Collected: 12/13/2000 15:10 % Solid: 86.8%

Cas No	Analyte	MDL	Concentration		Q
7439-92-1	Lead	0.15	31.2	ppm	· · ·

Sample: K5841-6

Client Sample ID: 00-11784-006 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Type: Composite

Collected: 12/14/2000 08:10 % Solid: 77.5%

Cas No	Analyte	MDL	Concentration	Units	Q
7439-92-1	Lead	0.17	564	ppm	



208 Route 109, Farmingdale NY 11735

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

12/28/2000

Lead

Sample: K5841-7 Client Sample ID: 00-11784-007

Analyzed Date: 12/27/2000

Matrix: Soil Remarks: Type: Composite

Collected: 12/14/2000 09:50 % Solid: 77.7%

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Cas No Analyte	MDL	Concentration	Units	
7439-92-1 Lead	0.17	367	ppm	

Sample: K5841-8

Client Sample ID: 00-11784-008 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Type: Composite

Collected: 12/14/2000 11:00 % Solid: 77.6%

Collected: 12/14/2000 12:10

% Solid: 88.5%

٢	Cas No	Analyte	MDL	Concentration	Units	Q
$\left  \right $	7439-92-1	Lead	0.17	457	ppm	
1						

Sample: K5841-9

Client Sample ID: 00-11784-009 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Cas No	Analyte	MDL	Concentration	Units	Q
7439-92-1	Lead	0.15	8.26	ррт	

Type: Composite

Sample: K5841-10

Client Sample ID: 00-11784-010 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Type: Composite

Collected: 12/14/2000 13:30 % Solid: 82.2%

Cas NoAnalyteMDLConcentrationUnitsQ7439-92-1Lead0.1654.9ppm



# Environmental Testing Laboratories, Inc.

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

#### 12/28/2000

Lead

Sample: K5841-11 Client Sample ID: 00-11784-011 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

	Analyzeu De		MDL	Concentration	Units	Q
Í	Cas No	Analyte	0.14	76.2	ppm	
	7439-92-1	Lead				

Type: Composite

Sample: K5841-12

Client Sample ID: 00-11784-012 Matrix: Soil Remarks: alvzed Date: 12/27/2000

Type: Composite

Collected: 12/14/2000 15:00 % Solid: 88.2%

Collected: 12/14/2000 14:00

% Solid: 91.8%

Analyzeu De		MDL	Concentration	Units	Q
Cas No	Analyte	0.15	79.8	ppm	
7439-92-1	Lead				

Sample: K5841-13 Client Sample ID: 00-11784-013

Type: Composite

Collected: 12/14/2000 16:00 % Solid: 87.5%

Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Analyzed Da	ate: 12/2/12000	1101	Concentration	Units	Q
Cas No	Analyte	MDL . 0.15	2790	ppm	
7439-92-1	Lead				

### Sample: K5841-14

Client Sample ID: 00-11784-014 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Type: Composite

Collected: 12/15/2000 10:20 % Solid: 88.3%

	7 (10)	Analyte	MDL	Concentration	Units	u .	
-	Cas No	Analyte	0.15	63.1	ppm		
	7439-92-1	Lead					

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# Environmental Testing Laboratories, Inc.

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

12/28/2000

Lead

Sample: K5841-15

Client Sample ID: 00-11784-015 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Type: Composite

Collected: 12/15/2000 11:00 % Solid: 86.6%

Cas No	Analyte	MDL	Concentration	Units	Q
7439-92-1	Lead	0.15	124	ppm	



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### Environmental Testing Laboratories, Inc. 208 Route 109, Farmingdale NY 11735

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

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12/28/2000

# MTBE By 602/8021B

Sample: K5841-1

Client Sample ID: 00-11784-001 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/13/2000 10:15 % Solid: 85.6%

ſ	Cas No	Analyte	MDL	Concentration	Units	Q	
	1634-04-4	МТВЕ	1.24	4.26	ррь		I

Sample: K5841-2

Client Sample ID: 00-11784-002 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/13/2000 10:50 % Solid: 89.2%

Collected: 12/13/2000 15:10

Collected: 12/14/2000 08:10

% Solid: 86.8%

% Solid: 77.5%

Cas No	Analyte	MDL	Concentration	Units	Q.
1634-04-4 MTBE		1.19	8.52	ррь	

Sample: K5841-3

Client Sample ID: 00-11784-003 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	МТВЕ	. 0.71	0.71	ррб	U

Type: Composite

Sample: K5841-6

Client Sample ID: 00-11784-006 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Cas No	Analyte	MDL	Concentration	Units	Q
	4 MTBE	2.00	2.00	ppb	0

Type: Composite



208 Route IO9, Farmingdale NY II735

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

ETL

12/28/2000

#### MTBE By 602/8021B

Sample: K5841-7

Client Sample ID: 00-11784-007 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 09:50 % Solid: 77.7%

→ CON ED MAIN

Cas No	Analyte	MDL	Concentration	Units	Q.
1634-04-4	MTBE	0.80	18.4	ррь	

Sample: K5841-8

Client Sample ID: 00-11784-008 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 11:00 % Solid: 77.6%

Collected: 12/14/2000 12:10

% Solid: 88.5%

Cas No	Analyte	MDL	Concentration	Units	Q	1
1634-04-4	MTBE	0.80	15.5	ppb		

Sample: K5841-9

Client Sample ID: 00-11784-009 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	МТВЕ	1.75	26.4	ррр	· ·

Type: Composite

Sample: K5841-10

Client Sample ID: 00-11784-010 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 13:30 % Solid: 82.2%

Cas NoAnalyteMDLConcentrationUnitsQ1634-04-4MTBE0.7513.4ppb



#### 12/28/2000 17:36 FAX 631 249 8344

500 mm m 200 mm

- K5841 -

Page 30 of 34

# Environmental Testing Laboratories, Inc.

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ETL

12/28/2000

### MTBE By 602/8021B

Type: Composite

#### Sample: K5841-11 Client Sample ID: 00-11784-011

Matrix: Soil Remarks: Analyzed Date: 12/20/2000

	Cas No	Analyte	MDL	Concentration	Units	Q
$\left  \right $	1634-04-4		2.89	39.6	ррь	

#### Sample: K5841-12

Client Sample ID: 00-11784-012 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 15:00 % Solid: 88.2%

Collected: 12/14/2000 16:00

% Solid: 87.5%

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	3.00	12.7	ррр	

#### Sample: K5841-13

Client Sample ID: 00-11784-013 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4		. 1.21	3.97	ррb	

Type: Composite

#### Sample: K5841-14

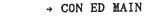
Client Sample ID: 00-11784-014 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/15/2000 10:20 % Solid: 88.3%

Units O Concentration MDL Analyte Cas No 124 ppb 3.00 1634-04-4 MTBE





Collected: 12/14/2000 14:00

% Solid: 91.8%

### 12/28/2000 17:36 FAX 631 249 8344

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### Environmental Testing Laboratories, Inc. 208 Route 109, Farmingdale NY 11735

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12/28/2000

# MTBE By 602/8021B

Sample: K5841-15

Client Sample ID: 00-11784-015 Matrix: Soil / -Remarks: Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/15/2000 11:00 % Solid: 86.6%

	Analyzed De				1	
ſ		Analyte	MDL	Concentration	Units	Q
	Cas No		1.22	4.28	ppb	
[	1634-04-4	МТВЕ	1 - darder			



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12/28/2000

#### **Case Narrative**

8021 STARS/MTBE

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb/levels in the initial calibration curve:

Acetone 2-Butanone 4-Methyl-2-pentanone

2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

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

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Reviewed by:



ETL

### Environmental Testing Laboratories, Inc. 208 Route 109, Farmingdale NY 11735

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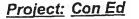
12/28/2000

#### Custody Document: K5842

Received: 12/18/2000 15:56 Sampled by: N/A

### Client: Con Edison-Accounts Payable (18200)

PO Box 799, Cooper Station New York, NY 10276



31-01 20th Ave. Long Island City, NY 11105

Manager: J. Celestine

Respectfully submitted,

a Labo

Post-it <sup>e</sup> Fax Note	7671 Date VV8 pages	2
TO. CICHIE	From Co.	
Co./Dept. Phone #	Phone #	
Fax #	Fax #	

NYS Lab ID # 10969 NJ Cert. # 73812 CT Cert. # PH0645 MA Cert. # NY061 PA Cert. # 68-535 VA Cert. # 108 NH Cert. # 252592-BA RI Cert. # 161



- K5842 -

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

12/28/2000

Collected: 12/15/2000

# EPA 8021B Stars Memo Cmpds

Sample: K5842-3

Client Sample ID: 00-11784-018 Matrix: Liquid Remarks: See Case Narrative Analyzed Date: 12/19/2000

Type: Composite

	ate: 12/19/2000	MDL	Concentration	Units	Q
Cas No	Analyte	0.23	0.23	ррь	U
1634-04-4	МТВЕ	0.14		ppb	U
71-43-2	Benzene	0.16		ppb	U
108-88-3	Toluene	0.21		ppb	U
100-41-4	Ethylbenzene				U
108-38-3	m,p-xylene	0.43	0.07	ppb	U
95-47-6	o-xylene	0.72			U
1330-20-7	Xylenes(Total)	0.72		ppb	U
98-82-8	Isopropylbenzene		0.00		U
103-65-1	n-Propylbenzene			the second se	U
108-67-8	3 1,3,5-Trimethylbenzene	0.30			<u> </u>
	6 tert-Butylbenzene	0.29		1 martine and the second	U
95-63-6	5 1,2,4-Trimethylbenzene	0.25		1 in the second second	- U
135-98-	8 sec-Butylbenzene	0.2			
	6 p-lsopropyltoluene	0.3	1		- U
104-51-	8 n-Butylbenzene	0.2	1	B ppb	U
	3 Naphthalene	0.1	8 0.10	1660	



2003

# Environmental Testing Laboratories, Inc.

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

12/28/2000

Collected: 12/14/2000 12:50

# EPA 8021B Stars Memo Cmpds

Sample: K5842-4 Client Sample ID: 00-11784-019

Matrix: Liquid

Type: Composite

Remarks: See Case Marrative Analyzed Date: 12/19/2000 Concentration Units Q MDL Analyte Cas No Ū 0.23 ppb 0.23 1634-04-4 MTBE Ũ 0.14 ppb 0.14 71-43-2 Benzene Ū 0.16 ppb 0.16 108-88-3 Toluene Ú 0.21 ppb 0.21 100-41-4 Ethylbenzene Ū 0.45 ppb 0.45 108-38-3 m,p-xylene U 0.27 ppb 0.27 95-47-6 o-xylene Ū 0.72 ppb 0.72 1330-20-7 Xylenes(Total) U 0.21 ppb 0.21 98-82-8 Isopropylbenzene Ū 0.28 ppb 0.28 103-65-1 n-Propylbenzene Ū 0.30 ppb 0.30 108-67-8 1,3,5-Trimethylbenzene Ū 0.29 ppb 0.29 98-06-6 tert-Butylbenzene U 0.25 ppb 0.25 95-63-6 1,2,4-Trimethylbenzene U 0.25 ppb 0.25 135-98-8 sec-Butylbenzene Ū 0.31 ppb 0.31 99-87-6 p-Isopropyitoluene U 0.27 ppb 0.27 104-51-8 n-Butylbenzene Ū 0.18 ppb 0.18 91-20-3 Naphthalene



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# Environmental Testing Laboratories, Inc.

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

12/28/2000

### TCLP 8021 Stars Memo List

Sample: K5842-1

Client Sample ID: 00-11784-016 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/15/2000 12:00 % Solid: 83.7%

Cas No	Analyte	MDL	Concentration	Units	Q
		0.00025	0.0032	ppm	
1634-04-4		0.00014	0.00014	ppm	U
71-43-2	Benzene	0.00016	0.00016	ppm	U
108-88-3	Toluene				U
100-41-4	Ethylbenzene	0.00017	0.00017	ррт	10
108-38-3	m,p-xylene	0.00017		ppm	_
	o-xylene	0.000080	0.000080	ppm	U
		0.00089	0.0018	ppm	
	Xylenes(Total)	0.00010		ppm	U
	Isopropylbenzene	0.00014			10
	n-Propylbenzene			1	U
108-67-8	1,3,5-Trimethylbenzene	0.00012			
	1,2,4-Trimethylbenzene	0.00013	A second s		-
	sec-Butylbenzene	0.000040	0.000040	ppm	U
	p-isopropyitoluene	0.00010	0.00010	ppm	U
		0.00014	0.00014	ppm	U
	n-Butylbenzene	0.00027			
	Naphthalene				- U
98-06-6	tert-Butylbenzene	0.00013	0.00013	PP'''	



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# Environmental Testing Laboratories, Inc.

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

12/28/2000

# TCLP 8021 Stars Memo List

Sample: K5842-2

Client Sample ID: 00-11784-017 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/15/2000 13:30 % Solid: 90.1%

0 No	Analyte	MDL	Concentration	Units	Q
Cas No		0.00025	0.00025	ppm	U
1634-04-4		0.00014	0.00014	рргп	U
	Benzene	0.00016			U
	Toluene	0.00017	0.00017		
100-41-4	Ethylbenzene		0.00017		10
108-38-3	m,p-xylene	0.00017			
	o-xylene	0.000080			-
	Xylenes(Total)	0.00089			
	Isopropylbenzene	0.00010		1	U
	n-Propylbenzene	0.00014	0.00014	ppm	U
103-03-1	1,3,5-Trimethylbenzene	0.00012	0.00012	ppm	U
108-67-8		0.00013	0.00013	ppm	U
	1,2,4-Trimethylbenzene	0.000040		ppm	U
	sec-Butylbenzene	0.00010			U
	p-Isopropyltoluene	0.00014			
	n-Butylbenzene				-+-
91-20-3	Naphthalene	0.00027			
98-06-6	6 tert-Butylbenzene	0.00013	0.00013		



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Ø 006

# Environmental Testing Laboratories, Inc.

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

12/28/2000

### TCLP 8021 Stars Memo List

Sample: K5842-5

Client Sample ID: 00-11784-020 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/14/2000 12:09 % Solid: 85.2%

Cas No	Analyte	MDL	Concentration	Units	<b>Q</b>
1634-04-4		0.00025	0.017	ppm	
	Benzene	0.00014	0.078	ppm	
1. 2		0.0032	0.20	ppm	
	Toluene	0.0034	0.39	ppm	
	Ethylbenzene	0.0034	0.97	ppm	
	m,p-xylene	0.0016	0.73	ppm	-
	o-xylene	0.018		ppm	
	Xylenes(Total)	0.00010		the second se	1
	Isopropylbenzene	0.00014	the second se		
	n-Propylbenzene	0.0024			
	1,3,5-Trimethylbenzene	0.0026	1		+
	1,2,4-Trimethylbenzene	0.000040			U
	sec-Butylbenzene	0.00010		ppm	
	p-lsopropyltoluene	0.00014			
	n-Butylbenzene	0.0054		ppm	-+-
	3 Naphthalene	0.00013			-10
98-06-6	6 tert-Butylbenzene	0.00013	0.00010	[	



2007

# Environmental Testing Laboratories, Inc.

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

12/28/2000

# TCLP 8021 Stars Memo List

Sample: K5842-6

Client Sample ID: 00-11784-021 Matrix: Soil Remarks: See Case Narrative Analyzed Date: 12/21/2000

Type: Composite

Collected: 12/15/2000 02:00 % Solid: 85.9%

halyzed Da	Analyte	MDL	Concentration	Units	Q
Cas No		0.00050	0.0016	ppm	
1634-04-4		0.00028	0.00028	ppm	U
71-43-2	Benzene	0.00032			U
108-88-3	Toluene			1	
100-41-4	Ethylbenzene	0.00034			10
108-38-3	m,p-xylene	0.00034			
	o-xylene	0.00016		1	
	Xylenes(Total)	0.0018			U
	Isopropylbenzene	0.00020			U
	n-Propylbenzene	0.00028			U
	1,3,5-Trimethylbenzene	0.00024	0.00024	l ppm	U
	1,2,4-Trimethylbenzene	0.00026	0.00026	6 ppm	U
		0.000080	0.00008	) ppm	U
	sec-Butylbenzene	0.00020	0.0002	) ppm	U
	p-Isopropyltoluene	0,00028	0.0002	B ppm	U
	n-Butylbenzene	0,00054	1	4 ppm	U
	Naphthalene	0.00026			U
98-06-6	tert-Butylbenzene	0.00020		- [66	



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2008

# Environmental Testing Laboratories, Inc.

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

12/28/2000

# TCLP Stars Memo Base Neutrals

Sample: K5842-5

Client Sample ID: 00-11784-020 Matrix: Soil Remarks: Analyzed Date: 12/30/1899

Type: Composite

Collected: 12/14/2000 12:09 % Solid: 85.2%

Analyzed Da	te: 12/30/1699		Concentration	Units	Q
Cas No	Analyte	MDL			
		0.0089	ø 0.67	ррт	
	Naphthalene	0.00075	0.014	mag	
83-32-9	Acenaphthene			ppm	
	Fluorene	0.00068			
		0.00059	0.0010	ppm	
	Phenanthrene	0.00053	0.00053	ppm	U
120-12-7	Anthracene				U
	Fluoranthene	0.00047			
		0.00053		1	U
129-00-0		0.00048	0.00048	ppm	U
56-55-3	Benzo(a)anthracene		1	ppm	U
218-01-9	Chrysene	0.00056	1	1 million and the second	U
	Benzo(b)fluoranthene	0.00045	0.00045		
		0.00029	0.00029	ppm	U
207-08-9	Benzo(k)fluoranthene	0.00036	a second s	ppm	U
50-32-8	Benzo(a)pyrene			1	U
	Indeno(1,2,3-cd)pyrene	0.0004			
193-39-0		0.0004	7 0.00047	ppm	U
53-70-3	Dibenzo(a,h)anthracene	0.0004		) ppm	U
191-24-2	Benzo(g,h,i)perylene	0.0004	0.000		



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#### 12/28/2000 17:19 FAX 631 249 8344

# Environmental Testing Laboratories, Inc.

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

ETL

#### 12/28/2000

Lead

Sample: K5842-1

Client Sample ID: 00-11784-016 Ma Re

Type: Composite

Collected: 12/15/2000 12:00 % Solid: 83.7%

→ CON ED MAIN

Q Concentration Units MDL 36.5 ppm Cas No 0.15 Lead 7439-92-1

Sample: K5842-2 Client Sample ID: 00-11784-017

Matrix: Soil Remarks:

Type: Composite

Collected: 12/15/2000 13:30 % Solid: 90.1%

Collected: 12/14/2000 12:09

Collected: 12/15/2000 02:00

% Solid: 85.2%

% Solid: 85.9%

Analyzed Date: 12/27/2000	MDI Concentration Units Q
Cas No Analyte 7439-92-1 Lead	MDL         Concentration         Onics         Concentration           0.14         11.4         ppm         Initial         Initia         Initia         Initia

Sample: K5842-5

Client Sample ID: 00-11784-020 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Q Units Concentration MDL Analyte Cas No 135 ppm 0.15 7439-92-1 Lead

Type: Composite

Sample: K5842-6

Client Sample ID: 00-11784-021 Matrix: Soil Remarks: Analyzed Date: 12/27/2000

Q Concentration Units MDL Analyte Cas No 82.9 ppm 0.15 7439-92-1 Lead

Type: Composite



	Analy	/te
Remarks: Analyzed Date: 12	27/2000	
Matrix: Soil	/ .	

#### 12/28/2000 17:20 FAX 631 249 8344

#### ETL

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# Environmental Testing Laboratories, Inc.

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

#### 12/28/2000

# MTBE By 602/8021B

Sample: K5842-1 Client Sample ID: 00-11784-016 Matrix: Soil Remarks: Analyzed Date: 12/20/2000

Type: Composite

Collected: 12/15/2000 12:00 % Solid: 83.7%

Linite

Collected: 12/15/2000 13:30

0

ation |

% Solid: 90.1%

			MDL	Concentration	Units	
1	Cas No	Analyte		44.9	Inch	
	Cas No		3.17	14.8	l bho	1
	1634-04-4	МТВЕ	·			

Type: Composite

Sample: K5842-2

Client Sample ID: 00-11784-017 Matrix: Soil **Remarks:** Analyzed Date: 12/20/2000

Units Q Concentration MDL Analyte Cas No 3.14 ppb 1.18 1634-04-4 MTBE

Sample: K5842-5

Client Sample ID: 00-11784-020 Matrix: Soil Remarks: Analyzed Date: 12/19/2000

Collected: 12/14/2000 12:09

% Solid: 85.2%

	Analyzed Be		MDL	Concentration	Units	Q
1	Cas No	Analyte	24.9	24.9	ррb	U
	1634-04-4	МТВЕ				

Type: Composite

Sample: K5842-6 Client Sample ID: 00-11784-021 Collected: 12/15/2000 02:00 % Solid: 85.9%

Matrix: Soil Remarks:

Analyzed Date: 12/20/2000 Units Q Concentration MDL Analyte Cas No 3.87 ppb 1.23 1634-04-4 MTBE

Type: Composite



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

#### 12/28/2000

#### **Case Narrative**

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone 2-Butanone 4-Methyl-2-pentanone 2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

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

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor  $\bigwedge$ 

Reviewed by:



208 Route 109, Farmingdale NY 11735

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

12/28/2000

#### ORGANIC METHOD QUALIFIERS

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

- U The analytical result is a non-detect.
- J Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

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 identifies all compounds identified in an analysis at a secondary dilution.

### 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.
  - J Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.
- 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
  - NR when the analyte is not required to be analyzed.
  - P ICP
  - T Titrimetric

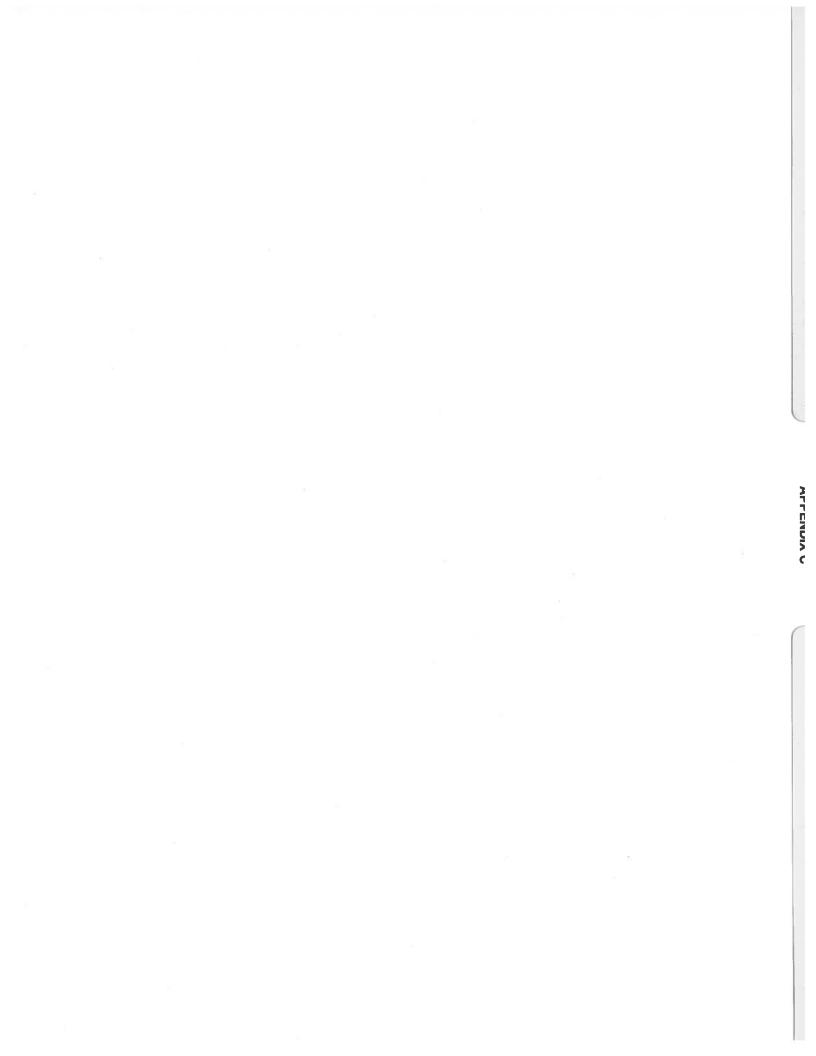


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	559 		e <sup>a</sup> MIS Sample ID # (Not incident #)			J	(0010) (0010)	Men D	Date	Time Date	Time	Date
	p#: AA15359 → αν □, ΒΧ □, ₩Ε □, S #: 32239 r's 10 #:	de method number		2 X X X 10 10 10					ions Dublic Affairs	Hecelved DY (Signature).		Received by (Signature):
4124 -8058	Chain - of - Custody ID #: Borough: MH [], BK (4), QN [], Account #: 32 Dept. 24 - hour Tel. #: () - Customer's ID #: -	quired – Inclu	LOFAL POTAL	24	121			System & Transmission Operations Maintenance Services	Energy Management Substation Operations Steam Operations			Received t
Tel: (718) 204 4124 Fax: (718) 956-8058	Chain - o Borough: Dept. 24 - h									TimeOS(Y)	Date Time	Date Time
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<b>(Bidg. 138)</b> 2., NY 11105	Telephone #: {	South Star	100 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	220				Customer Services Distribution Engineering	etten	Relinguithed by (Signature):	Relinquished by (Signature):	Relinquished by (Signature):
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lidate 20th	sident #:; *:	By:       A (within 24 hours)       Preservetion Information:       A (within 24 hours)         E (within 8 hours)       A (within 7 days)       Preservetion Information:       A (A P 2)         'A' priority requires an e2MIS incident # rational necessity justification:       Temp Blank: Yes       Yes       A (A P 2)         'A' priority requires an e2MIS incident # rational necessity justification:       Preserved with Comments:       No       A (A P 2)         TYPE: G-Greb;C-Composite;B Blank;D-Uupilcate;S-Split;SP-Spike       Comments:       A (A P 2)	VLT/MH/POLE # S EQUIP.SERIAL # A					Central Services Centronment, Health & Safety Tremonsation & Stores	ch # Development	Date N Time Ib	Date	Time Date Time
Consol 31-01	Employee #: 84	Preservation Information: Temp Blank: Yes Preserved with Comments: pilt;5P-Spike	VLT/M EQUIP.						Feditio	Jon working	by (Signature): "	Signature) :
	e Cem	Preservation Inf Temp Blank: Preserved with Comments: S.Spilt;SP-Spike	ription	9-10	-10	and.	be the	MEnto #1		Received	Received b	Received by (Signature):
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L & S. ChemLab	ChI-OI-CUBIOUNIA LSN: <i>(Lab Use Only)</i> Sample Site: <u>3</u> Requested By: <u>4</u> E-mail Notification: <u>6</u>	Sampled By:	ted (3) Time	1 2101	1 alsi	2		Comments / Special Instructions / Additional E Mail Notifications:	دباهد ،	had by (Sappler	Relinquished by (Signature):	Relinduished by (Signature):
	ChOCul LSN: <i>/Lab Use</i> Sample Site: Requested By:. E-mail Notifica	Priority: E (with An 'E' or 'A' pri- or an operationa SAMPLE TYPE:	Callected Date T	12/3			>	Comment Additions	ANA	Relingdah	Relinquist	Relinguist

#### **ГАВО**ВАТОВУ СОРУ

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Tel: (718) 204-4124 Fax: (718) 956-8058 Chain - of - Custody ID #: AA29597 Chain - of - Custody ID #: AA29597 Borough: MH □, BK - ON □, BX □, WE □, Account #: 32239 ow) Dept. 24-hour Tel. #: ()	Tractic required - Include method number If app Restriction of the second of the seco	Central Operations System & Transmission Sperations Maintenance Services Bubatation Substation Streem Operations A/7 Received by (Si Received by (Si
Consolidated Edison (Bidg. 138)       Tel: (7)         31-01       20th Avenue, L.I.C., NY 11105       Fax: (7)         e² MIS Incident #:       B         Employee #:       84 21 7       Telephone #: (         Employee #:       Asbeston: (*Check Box Below)       D	Electric Operations	Central Services     Electric Operations       Environment, Health & Safety     Customer Services     Bronx & Wentch Transportation & Stores       Environment, Health & Safety     Customer Services     Bronx & Wentch Transportation & Stores       Research & Development Facilities & Office Services     Customer Operations       Facilities & Office Services     Customer Operations       Pace     Nime       No     Date       No     Customer Operations       Facilities & Office Services     Customer Operations       Facilities & Office Services     Customer Operations       Imme     Relinquished by (Signature):       Imme     Relinquished by (Signature):       Imme     Relinquished by (Signature):
E M & S Chem Lab Chain-of-Custody/Request for Analysis Chain-of-Custody/Request for Analysis LSN: /Lab Use Only) O - 11784 LSN: /Lab Use Only) O - 11784 Bequested By: Ange Chang A Chang Chang Chang Chang A Chang Chang A Chang Chang A Chan	Sampled DY.       Preservation Information:         Priority: E (within 8 hours)       @within 7 days)         An E' or 'A' priority requires an eZMIS Incident # or an operational necessity justification:       Preservation Information:         An E' or 'A' priority requires an eZMIS Incident # or an operational necessity justification:       Preserved with the team of team	Instructions / Actifications: Actifications: Actifications: Actifications: Actifications: Time / Che Received by (Signal Anture): Date Received by (Signal Anture): Time

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	: (718) 204-412 : (718) 956-805 Chain of C Borough: MH Dept. 24 - hour	Adartia (fert) required Includa -     Adartia (fert) -     Adartia (fert) required Includa -     Adartia (fert) -	
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	<b>EHR &amp; S C</b> <b>Chain-of-Custody</b> LSN: <i>(Lab Use Only</i> ) LSN: <i>(Lab Use Only</i> ) Requested By:	2] Priority: E (within 8 hours) & An 'E' or 'A' priority requires an e or an operational necessity justific are or an operational necessity justific sample Type: Grab: C-Composite INFO MATRIX: BL-Blueetone: L-L Calinetad (3) Sam Deta Time (3) Sam Lata Time (3) Sam	0.112



208 Route 109, Farmingdale NY 11735

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ETL

03/09/2001

Collected: 02/07/2001 15:30

# EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-1 Client Sample ID: 01-01394-001 MW-11S Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	МТВЕ	2.30	697	ppb	
	Benzene	0.14	3.80		
108-88-3		0.16	15.2	ppb	
	Ethylbenzene	0.17	89.1	ppb	
	m,p-xylene	4.50	476	ppb	
	o-xylene	2.70	180	ppb	
	Xylenes(Total)	7.20	656	ppb	
	Isopropylbenzene	0.10	21.1	ppb	
	n-Propylbenzene	0.14	40.0	ppb	
	1,3,5-Trimethylbenzene	3.00	215	ppb	
	tert-Butylbenzene	0.13	0.13	ppb	U
	1,2,4-Trimethylbenzene	2.50	611	ppb	
	sec-Butylbenzene	0.040	0.040	ppb	U
	p-Isopropyltoluene	0.10	17.7	ppb	
	n-Butylbenzene	0.14	0.14	ppb	U
	Naphthalene	0.27	84.0	ppb	



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03/09/2001

Collected: 02/07/2001 16:40

### EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-2 Client Sample ID: 01-01394-002 MW-12S Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Concentration Units Q Analyte MDL Cas No 0.25 198 ppb Ē 1634-04-4 MTBE Ū 0.14 0.14 ppb 71-43-2 Benzene U 0.16 0.16 ppb 108-88-3 Toluene Ū 0.17 ppb 0.17 100-41-4 Ethylbenzene 0.17 2.10 ppb 108-38-3 m,p-xylene U 0.080 ppb 0.080 95-47-6 o-xylene 2.10 ppb 0.89 1330-20-7 Xylenes(Total) 0.85 ppb 0.10 98-82-8 Isopropylbenzene U 0.14 0.14 ppb 103-65-1 n-Propylbenzene 0.12 3.10 ppb 108-67-8 1,3,5-Trimethylbenzene Ū 0.13 ppb 0.13 98-06-6 tert-Butylbenzene 6.40 ppb 0.13 95-63-6 1,2,4-Trimethylbenzene 0.040 ppb U 0.040 135-98-8 sec-Butylbenzene Ū 0.10 ppb 0.10 99-87-6 p-Isopropyltoluene Ū 0.14 ppb 0.14 104-51-8 n-Butylbenzene U 0.27 0.27 ppb 91-20-3 Naphthalene



- K2599 -

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03/09/2001

### EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-3

Client Sample ID: 01-01394-003 MW-14S Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001 Collected: 02/07/2001 17:50

Cas No	Analyte	MDL	Concentration	Units	
1634-04-4	MTBE	1.25	260	ppb	
	Benzene	0.70	16.7	ppb	
108-88-3		0.80	44.5	ppb	
	Ethylbenzene	0.85	174	ppb	
	m,p-xylene	0.85	823	ppb	
	o-xylene	0.40	474	ppb	
	Xylenes(Total)	4.45	1300	ppb	
	Isopropylbenzene	0.50	23.3	ppb	
	n-Propylbenzene	0.70	17.1	ppb	
	1,3,5-Trimethylbenzene	0.60	146	ppb	
	tert-Butylbenzene	0.65	0.65	ppb	U
	1,2,4-Trimethylbenzene	0.65	481	ppb	
	sec-Butylbenzene	0.20	0.20	ррр	υ
	p-isopropyitoluene	0.50	8.10	ppb	
	n-Butylbenzene	0.70	0.70	ppb	U
	Naphthalene	1.35	64.1	ppb	



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### EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-4 Client Sample ID: 01-01394-004 MW-13S Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Collected: 02/07/2001 18:50

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.50	40.3	ррb	
	Benzene	0.28	0.28	ppb	U
108-88-3		0.32	0.32	ррь	U
	Ethylbenzene	0.34	0.34	ppb	U
	m,p-xylene	0.34	0.34	ррь	U
	o-xylene	0.16	0.16	ppb	U
	Xylenes(Total)	1.78	1.78	ppb	U
	Isopropylbenzene	0.20	0.20	ppb	U
	n-Propylbenzene	0.28	0.28	ppb	U
	1,3,5-Trimethylbenzene	0.24	0.24	ppb	U
	tert-Butylbenzene	0.26	0.26	ppb	U
	1,2,4-Trimethylbenzene	0.26	0.26	ppb	U
	sec-Butylbenzene	0.080	0.080	ppb	U
	p-Isopropyltoluene	0.20	0.20	ppb	U
	n-Butylbenzene	0.28	0.28	ppb	U
	Naphthalene	0.54	0.54	ppb	U



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ETL

03/09/2001

Collected: 02/08/2001 10:30

### EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-5 Client Sample ID: 01-01394-005 MW-6N Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
	Benzene	0.14	0.14	ppb	U
108-88-3		0.16	0.16	ppb	U
	Ethylbenzene	0.17	0.17	ppb	U
	m,p-xylene	0.17	0.17	ppb	U
	o-xylene	0.080	0.080	ppb	U
	Xylenes(Total)	0.89	0.89	ppb	U
	Isopropylbenzene	0.10	0.10	ppb	U
	n-Propylbenzene	0.14	0.14	ppb	U
	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
	tert-Butylbenzene	0.13	0.13	ppb	U
	1,2,4-Trimethylbenzene	0.13		ppb	U
	sec-Butylbenzene	0.040			U
		0.10			10
	p-Isopropyltoluene	0.14			10
	n-Butylbenzene	0.27			- U
91-20-3	Naphthalene	0.21	0.61	1000	



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03/09/2001

Collected: 02/08/2001 12:40

# EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-6

Client Sample ID: 01-01394-006 MW-3N Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4		0.25	74.1	ppb	
	Benzene	0.14	0.14	ррb	U
108-88-3		0.16	0.16	ppb	U
	Ethylbenzene	0.17	0.17	ppb	U
	m,p-xylene	0.17	0.17	ppb	U
	o-xylene	0.080	0.080	ppb	U
	Xylenes(Total)	0.89	0.89	ppb	U
	Isopropylbenzene	0.10	0.10	ppb	U
	n-Propylbenzene	0.14	0.14	ppb	U
	1,3,5-Trimethylbenzene	0.12	0.12	ррь	U
	tert-Butylbenzene	0.13	0.13	ppb	U
	1,2,4-Trimethylbenzene	0.13	0.13	ppb	U
	sec-Butylbenzene	0.040	0.040	ppb	U
	p-isopropyitoluene	0.10	0.10	ppb	U
	n-Butylbenzene	0.14	0.14	ppb	U
	Naphthalene	0.27	0.27	ppb	U



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03/09/2001

Collected: 02/08/2001 13:20

### EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-7 Client Sample ID: 01-01394-007 MW-20S Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
	Benzene	0.14	0.14	ppb	U
108-88-3	Toluene	0.16	0.16	ppb	U
	Ethylbenzene	0.17	0.17	ррб	Ű
	m,p-xylene	0.17	0.17	ррь	U
95-47-6	o-xylene	0.080	0.080	ppb	U
1330-20-7	Xylenes(Total)	0.89	0.89	ppb	U
	Isopropylbenzene	0.10	0.10	ppb	U
	n-Propylbenzene	0.14	0.14	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
	tert-Butylbenzene	0.13	0.13	ppb	U
	1,2,4-Trimethylbenzene	0.13	0.13	ррб	U
	sec-Butylbenzene	0.040	0.040	ppb	U
	p-Isopropyltoluene	0.10	0.10	ppb	U
	n-Butylbenzene	0.14	0.14	ppb	U
	Naphthalene	0.27	0.27	ppb	U



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03/09/2001

Collected: 02/08/2001 13:45

### EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-8

Client Sample ID: 01-01394-008 MW-5N Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ррб	υ
	Benzene	0.14	0.14	ppb	U
108-88-3	Toluene	0.16	0.16	ррв	U
100-41-4	Ethylbenzene	0.17	0.17	ppb	υ
	m,p-xylene	0.17	0.17	ppb	U
	o-xylene	0.080	0.080	ppb	U
	Xylenes(Total)	0.89	0.89	ppb	U
	Isopropylbenzene	0.10	0.10	ppb	U
	n-Propylbenzene	0.14	0.14	ppb	U
	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
	tert-Butylbenzene	0.13	0.13	ppb	U
	1,2,4-Trimethylbenzene	0.13	0.13	ppb	U
	sec-Butylbenzene	0.040	0.040	ppb	U
	p-Isopropyltoluene	0.10	1		U
	n-Butylbenzene	0.14		ppb	U
	Naphthalene	0.27	0.27	ppb	U



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03/09/2001

Collected: 02/08/2001 14:55

#### EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-9

Client Sample ID: 01-01394-009 MW-18S Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Q MDL Concentration Units Analyte Cas No 0.25 0.25 ppb U 1634-04-4 MTBE Ū 0.14 0.14 ppb 71-43-2 Benzene U 0.16 ppb 0.16 108-88-3 Toluene Ū 0.17 0.17 ppb 100-41-4 Ethylbenzene U 0.17 0.17 ppb 108-38-3 m,p-xylene Ū 0.080 ppb 0.080 95-47-6 o-xylene U 0.89 0.89 ppb 1330-20-7 Xylenes(Total) 0.10 ppb U 0.10 98-82-8 Isopropylbenzene 0.14 ppb U 0.14 103-65-1 n-Propylbenzene U 0.12 0.12 ppb 108-67-8 1.3,5-Trimethylbenzene Ū 0.13 ppb 0.13 98-06-6 tert-Butylbenzene 0.13 0.13 ppb U 95-63-6 1,2,4-Trimethylbenzene Ū 0.040 0.040 ppb 135-98-8 sec-Butylbenzene Ū 0.10 ppb 0.10 99-87-6 p-Isopropyltoluene Ū 0.14 ppb 0.14 104-51-8 n-Butylbenzene Ū 0.27 0.27 ppb 91-20-3 Naphthalene



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03/09/2001

### EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-10

Client Sample ID: 01-01394-010 MW-2N Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001 Collected: 02/08/2001 16:05

Cas No	Analyte	MDL	Concentration	Units	G
1634-04-4		0.50	18.5	ppb	
	Benzene	0.28	0.28	ppb	U
108-88-3		0.32	0.32	ppb	U
	Ethylbenzene	0.34	0.34	ppb	U
	m,p-xylene	0.34	0.34	ppb	U
	o-xylene	0.16	0.16	ppb	U
	Xylenes(Total)	1.78	1.78	ppb	U
	Isopropylbenzene	0.20	0.20	ppb	U
	n-Propylbenzene	0.28	0.28	ppb	U
	1,3,5-Trimethylbenzene	0.24	0.24	ppb	U
	tert-Butylbenzene	0.26	0.26	ppb	U
	1,2,4-Trimethylbenzene	0.26	0.26	ppb	U
	sec-Butylbenzene	0.080	0.080	ppb	U
	p-Isopropyltoluene	0.20	0.20	ppb	U
	n-Butylbenzene	0.28	0.28	ppb	U
	Naphthalene	0.54	0.54	ppb	U



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03/09/2001

# EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-11

Collected: 02/08/2001 16:35

Client Sample ID: 01-01394-011 MW-19S Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
		0.25	0.25	ppb	U
1634-04-4		0.14	0.14	ppb	U
	Benzene	0.16			U
108-88-3	Toluene				U
100-41-4	Ethylbenzene	0.17		ppb	U
108-38-3	m,p-xylene	0.17		ppb	
	o-xylene	0.080		1	U
	Xylenes(Total)	0.89	0.89	ppb	ĮU
	Isopropylbenzene	0.10	0.10	ppb	U
		0.14	0.14	ppb	U
	n-Propylbenzene	0.12		ppb	U
	1,3,5-Trimethylbenzene	0.12			U
	tert-Butylbenzene				U
95-63-6	1,2,4-Trimethylbenzene	0.13	A second s		
	sec-Butylbenzene	0.040			U
	p-Isopropyitoluene	0.10	0.10	ppb	U
	n-Butylbenzene	0.14	0.14	ppb	U
		0.27	0.27	ppb	U
91-20-3	Naphthalene			L	



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03/09/2001

Collected: 02/08/2001 17:15

# EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-12

Client Sample ID: 01-01394-012 MW-1N Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4		0.50	84.6	ppb	
	Benzene	0.28	24.4	ppb	
	Toluene ·	0.32	24.2	ррb	
	Ethylbenzene	0.34	56.7	ppb	
	m,p-xylene	0.34	400	ppb	
	o-xylene	0.16	232	ppb	
	Xylenes(Total)	1.78	632	ppb	
	Isopropylbenzene	0.20	24.7	ppb	
	n-Propylbenzene	0.28	16.4	ррб	
	1,3,5-Trimethylbenzene	0.24	156	ppb	
	tert-Butylbenzene	0.26	0.26	ppb	U
	1,2,4-Trimethylbenzene	0.65	308	ppb	3
	sec-Butylbenzene	0.080	0.080	ppb	U
	p-Isopropyitoluene	0.20	10.9	ppb	
	n-Butylbenzene	0.28	0.28	ppb	U
	Naphthalene	0.54	44.0	ppb	



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03/09/2001

Collected: 02/07/2001

### EPA 8021B Stars Memo Volatiles Compounds

Sample: K2599-14

Client Sample ID: 01-01394-014 Trip Blank Matrix: Liquid Type: Grab Remarks: See Case Narrative Analyzed Date: 02/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.14	0.14		U
108-88-3	Toluene	0.16	0.16	ррр	U
100-41-4	Ethylbenzene	0.17	0.17		U
108-38-3	m,p-xylene	0.17	0.17	ppb	U
95-47-6	o-xylene	0.080	0.080	ppb	υ
1330-20-7	Xylenes(Total)	0.89	0.89	ppb	U
98-82-8	Isopropylbenzene	0.10	0.10	ppb	U
103-65-1	n-Propylbenzene	0.14	0.14	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
98-06-6	tert-Butylbenzene	0.13	0.13		U
95-63-6	1,2,4-Trimethylbenzene	0.13	0.13	ррб	U
135-98-8	sec-Butylbenzene	0.040	0.040	ppb .	U
99-87-6	p-Isopropyltoluene	0.10	0.10		U
104-51-8	n-Butylbenzene	0.14	0.14		U
91-20-3	Naphthalene	0.27	0.27	ррр	U



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02/23/2001

### Lead, Total

#### Sample: K2599-1

Collected: 02/07/2001 15:30

Collected: 02/07/2001 16:40

Client Sample ID: MW-11S Matrix: Liquid Remarks: 02/14/2001

Type: Grab

Type: Grab

Analyzed Da		MDL	Concentration	Units	Q
Cas No	Analyte	1.44	20.4	ррь	
7439-92-1	Lead				

### Sample: K2599-2

Client Sample ID: MW-12S Matrix: Liquid Remarks: Analyzed Date: 02/14/2001

Q Units Concentration MDL Analyte J 0.93 ppb Cas No 1.44 7439-92-1 Lead

Sample: K2599-3

Client Sample ID: MW-14S Matrix: Liquid Remarks: 02/14/2001 Type: Grab

Collected: 02/07/2001 17:50

Analyzed Date: (	02/14/2001	MDL	Concentration	Units	Q
Cas No	Analyte	1,44	121	ppb	
7439-92-1 Lea	d				

### Sample: K2599-4

Client Sample ID: MW-13S Matrix: Liquid Remarks:

Type: Grab

### Collected: 02/07/2001 18:50

Analyzed Date: 02/14/2001 Q Concentration Units MDL Analyte 19.8 ppb Cas No -1.44 7439-92-1 Lead - # Hoffers



208 Route 109, Farmingdale NY 11735

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

02/23/2001

### Lead, Total

#### Sample: K2599-5

Collected: 02/08/2001 10:30

Client Sample ID: MW-6N Matrix: Liquid Remarks: Analyzed Date: 02/14/2001

Type: Grab

Analyzed Da		MDL	Concentration	Units	Q
Cas No	Analyte	1.44		ppb	υ
7439-92-1	Lead	1	L		

Sample: K2599-6

Client Sample ID: MW-3N Matrix: Liquid Remarks: Analyzed Date: 02/14/2001

nalyzed Da	ate: 02/14/2001			11-14-	
		MDL	Concentration	Units	- V
Cas No	Analyte	1.44	113	ppb	
7439-92-1	Lead				

Sample: K2599-7

Collected: 02/08/2001 13:20

Collected: 02/08/2001 13:45

Harr

Collected: 02/08/2001 12:40

Client Sample ID: MW-20S Matrix: Liquid Remarks: Analyzed Date: 02/14/2001

Type: Grab

Type: Grab

	Analyzeu De		MDL	Concentration	Units	Q	
	Cas No	Analyte	1.44	1.44	ppb	U	
1	7439-92-1	Lead					

#### Sample: K2599-8

Client Sample ID: MW-5N Matrix: Liquid Remarks: Analyzed Date: 02/14/2001

Type: Grab

	Analyzeu De		MDL	Concentration	Units	Q	
{	Cas No	Апајуtе	1.44	1.44	ppb	U	
	7439-92-1	Lead					



208 Route 109, Farmingdale NY 11735

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

02/23/2001

## Lead, Total

#### Sample: K2599-9

Collected: 02/08/2001 14:55

Client Sample ID: MW-18S Matrix: Liquid	Type: Grab				
Remarks: Analyzed Date: 02/14/2001		MDL	Concentration	Units	Q
Cas No Ana	alyte	1.44		ppb	U

7439-92-1 Lead

Sample: K2599-10

Client Sample ID: MW-2N Matrix: Liquid Remarks: Analyzed Date: 02/14/2001

Type: Grab

Collected: 02/08/2001	16:05
-----------------------	-------

Units

Concentration

Q

Cas No	Analyte	MDL 1.44	51.9	рръ	
7439-92-1	Lead	1			

MDL

Sample: K2599-11

Client Sample ID: MW-19S Matrix: Liquid Remarks: 02/14/2001

Type: Grab

Collected: 02/08/2001 16:35

Analyzed Da		MDL	Concentration	Units	Q	
Cas No	Analyte	1.44	0.74	ppb	J	
7439-92-1	Lead					

Sample: K2 Client Sampl Matrix: Liquid	e ID: MW-1N	Type: Grab		Collected:	02/08/2001	17:15
Demodent	ate: 02/14/2001		MDL	Concentration	Units	Q
Cas No	Analyte		1.44		ррб	
7439-92-1	Lead				H BH	



208 Route 109, Farmingdale NY 11735

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

02/23/2001

### Lead, Total

#### Sample: K2599-13

Collected: 02/08/2001 17:20

Client Sample ID: MW-4N Matrix: Liquid Remarks:

Type: Grab

	Analyzed Date:		MDL	Concentration	Units	Q	
1	Cas No	Analyte	13.0	542000			
	7439-92-1 Lea	d					

### Sample: K2599-15

Collected: 02/08/2001 18:00

Q

Client Sample ID: 3rd Avenue Yard Drums Type: Composite Matrix: Liquid Remarks: Analyzed Date: 02/14/2001

	Analyzed Da		MDL	Concentration	Units	Q	
[	Cas No	Analyte	1.44	10.1	ppb		
	7439-92-1	Lead					

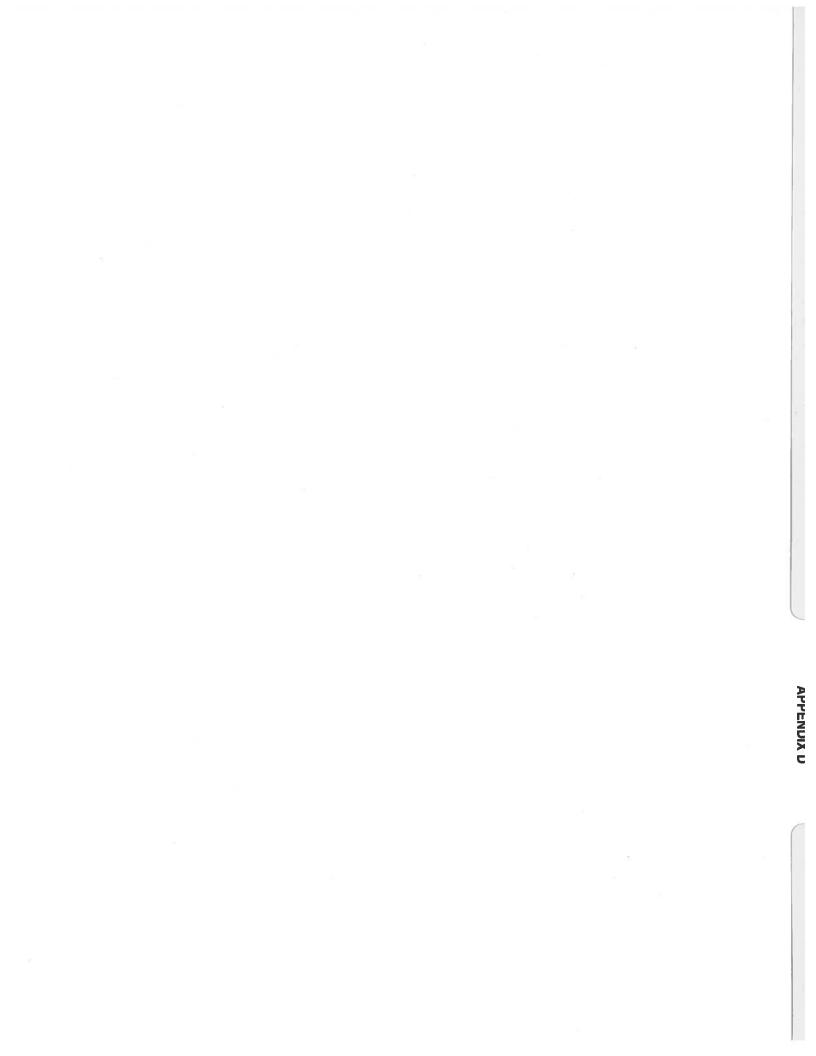
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			COPY	YHOTA	8084	1				-				
	11	if applicable	e-MIS Bampie ID # {Not incident #}	-007	1003	500,	900-	(800-)	Gas Ops	Auditing	Date Time	Date	Time Date	Time
	ustody ID #: AA30911 □, BK ¥, ay J, By P WED Account #: Tel. #: ( * *) + Customer's ID #:	Hard number	22 FE 28 FE C	2 2		HEMIC SEC		F 2	tions Middleer Operations mission		Received by (Signature):	Received by (Signature):	Barriand hu (Cinnatura):	
Tel: (718) 204-4124 Fax: (718) 956-8058	Chain - of - Custo Borough: MH □, 24 41.51 Acc Dept, 24 - hour Tel Cus	ysis (Test) required	25 R 05 12 0 10 10 10 10 10 10 10 10 10 10 10 10 1						Cantral Operations		Date 7/9 Received	1		Date heceive
(Bidg. 138) 2., NY 11105	Telephone #: ( <u>118_)</u> <u>304</u> Organization: (*Check Box Below)       D				-		         		trie O	Oustomer Services U Bronx & Wettchetter Distribution Engineering Staten Island Manhattan Brooklyn & Oueens Manhattan Daarsfiont	Relinquished by (Signature):	Relinquished by (Signature):		Relinquished by (Signature):
Consolidated Edison 31.01 20th Avenue, L.I.C	LIXHS	No X °C FCA O	VLT/MH/POLE # (4) Curr/MH/POLE # Sample Sample EQUIP.SERIAL # Matrix Type	11 C	+	E E		W G	4 11	Environment, Health & Safety C Transportation & Stores Research & Development Fjadlities & Office Services	-	2		Date Time
Co	e <sup>2</sup> MIS Employe	BY: U: Durot, C. Market,	iption Equit						TH TH		Received by Signature	T LU (Signature):		Received by (Signature):
JemLab	CID - U - 10 CANE YARD	BY: J. Durst       A (within 24 hours)       Preservation         E (within 8 hours)       A (within 7 days)       Preserved within 7 days)         A' priority requires an e <sup>2</sup> MIS Incident #       Preserved within 7 days)       Preserved within 7 days)         A' priority requires an e <sup>2</sup> MIS Incident #       Comments:       Preserved within 7 days)         ational necessity justification:       Comments:       Preserved within 7 days)         TYPE: G-Grab: C-Composite: B Blank; D-Duplicate; S-Splite; SP-Splite       MATRIX: BL-Bluestone; L-Liquid; S-Solid; O-Oli; W-Water; WO-Water	n Sample Location / Description	=	MW - 125 MW - 14 5	MW-13 5	MW - 3	MW-205	2 Ho	-15T for clubic MT	Date2- & UD	Time PU Date	e E E	Date
EH&S Cheml	Chain-of-Custody/Herd SN: (Lab Use Only) Sn (Lab Use Only) iample Site: Third A iaquested By: AAge I i-mail Notification:	iority: E (within 8 hours) A (within 24 hours iority: E (within 8 hours) A (within 7 days) an 'E' or 'A' priority requires an e <sup>2</sup> MIS Incident # r an operational necessity justification: MPLE TYPE:G-Grab:C-Composite:B-Blank:D-Duplic INFO MATRIX: BL-Bluestone:L-Liquid:S-Solid:O-OI	Collected (3)	1 2	10/11 10/L1	1850	0/21 10/81		Cr (1/2/2) / Special Instructions / Cr AIN	Additional E-Mail Notifications: NYSDEC STARS L And 8370, 1N	18	Concersor	internation of neuronautilia	elinquished by (Signature):

**LABORATORY** COPY

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	Tile.	e <sup>2</sup> MIS Semple ID*#	(Nor Incident #)	010-	-10-	- 410-	-016 =	Gas Ops		Date	Time Date	Time Date	Time
#: AA30912 an De BY DWE 7.51	The first state of the state of			TEB 8		22	77	Nuclear Operations		tion Operations   Public Affairs  Operations  Received by (Signature):	Passived hv (Stanature):		Received by (Signature).
7 18) 204-4124 718) 956-8058 718) 956-8058 Chain-of-Custody ID #: Borough: MH □, BK Å, QN □ Account #: Dept. 24-hour Tel. #: (	- Per	LESTOS IN BEN	10 k J			202		Central Operations	Systam & Tranamission Operations Maintenance Services	Substation Operations Steam Operations	म		Received by
De 19	Analysis (Tart)	BENZE	148 101 101		- Pe				Bronx & Westchester	Date		Time	Date
11(S Box Bel	Contraction (C)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2	2			Electric Operations	Customer Services 8 roux Distribution Engineering 8 taten		Relinguishoopy (Sugaruma).	Relinquished by (Signature):	Relinquished by (Signature):
Avenue Avenue Avenue Avenue	Angel call		Sample Matrix	33.	K C	NO 3	3-	3		4	Date 2/9 Re Time10:27		
Employee #: Ven	formation: 2/4 calls ; Not	MATRIX: BL-Bluestone; L-Llquid; S-Solid; O-Oli; W-Water; WO-Water & Oli; SO-Soli; SL-Sludge;	VLT/MH/POLE # EQUIP. SERIAL #		M	well Read		Control Carvicat	K Environment, Health & Safety	Research & Development Facilities & Office Services	Inture):	jnature):	gnature):
The second secon		W-Water;WO-Water 8	scription			TELEVEL TOWLY	Drums	À	713 04	BE	Relinquished by (Sampler): (Signature) Date	Received by (Signature):	Received by (Signature):
ETL Coc # K-2549 augr EHBS ChernLab Chain-of-Custody/Request for Analysis Chain-of-Custody/Request for Analysis Chain-of-Custody/Request for Analysis Sample Site: TH(RD AVE YAND Sample SAMPLE	By: D. Dlive, C. WASSO J. W.         E (within 8 hours)       A (within 7 days)         Preservation         A' priority requires an e2MIS incident #         Comments:         rational necessity justification:         Type: Grab;C.Composite; 8-8lank; D-Duplicate;S-Split;SP-6	Uquid; S-Solid; O-Oil;	Sample Location / Description	MW-185 MW-2N	MN - 195	TR	Ave Yard	Ave YARD	Comments / Special Instructions / SEAU OUT T Additional E-Mail Notifications:		Ture) Date	Date Date	Time Date Time
発TL Coc # K-25 49 EH & S ChemLab Chain-of-Custody/Request for Anal Chain-of-Custody/Request for Anal Chain-of-Custody/Request for Anal Sample Site: TH/RD AVE YAN Sample Site: TH/RD AVE YAN Requested By: 4N 6 eL CHAN	Sampled By: <u>13.1511.v.e.</u> <u>C. Van 14550</u> Fiority: E (within 8 hours) <u>A (within 7 days)</u> An 'E' or 'A' priority requires an e <sup>2</sup> MIS Incident # or an operational necessity justification:	IX: BL-Bluestone; L-I	<u>(6</u> )	• •	•		1500 3rd A	1815 3rd Ave	becial Instructions / SEMD Mail Notifications:	SUNIC D	y (Sampler): (Signa	y (Signature):	y (Signature):
EFI Coc # + EFI & S Che Chain-of-Custody/Req Chain-of-Custody/Req Chain-of-Custody/Req II) LSN: /Lab Use Only/ 0] LSN: /Lab Use Only/ 0] LSN: /Lab Use Only/ 0] Requested By:		SAMPLE INFO MATRI	Callected Date Time	2/8/01 1455	2/8/01 1035	12/01	2/1/01/2	2/8/01 18	Comments / SF Additional E-A	NYSDEC and 827	Relinquished by	Relinquished by (Signature)	Chem C Relinquished by (Signature):



Lab Sequence Number: 01-00591-013 Date Reported: 01/24/01 E2MIS Incident Number: Date Analyzed: E2MIS Sample Number: Date Sampled: 01/18/01 Date Sampled: 01/18/01 Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE TSL Analyst: J.CHARLES NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. *** TCLP Results Of Analysis *** Description: B-12S DRUMS Location: THIRD AVE YD METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 ANALYTE RESULTS UNITS ANALYTE RESULTS UNITS Arsenic Benzene Barium Carbon Tetrachloride Cadmium Chloroform Lead 0.44 mg/L 1,2-Dichloroethane Mercury 1,1-Dichloroethane Mercury 1,1-Dichloroethane Mercury 1,1-Dichloroethane SIVer Tetrachloroethene Vinyl Chloride SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311 ADALYTES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311	To: <c Date: 1/2</c 	HEMLIMS@tao.coned.com> HANGA@CONED.COM> 24/01 3:35PM ANGEL CHANG 01-00591
NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. **** TCLP Results Of Analysis *** Description: B-12S DRUMS SAMPLE TYPE: SOLID Location: THIRD AVE YD METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 ANALYTE RESULTS UNITS ANALYTE RESULTS UNITS Arsenic Benzene Barium Carbon Tetrachloride Chlorobenzene Chromium Chloroform Lead 0.44 mg/L 1,2-Dichloroethane Mercury 1,1-Dichloroethene Selenium Methyl Ethyl Ketone Silver Tetrachloroethene Vinyl Chloride SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311	E2MIS Incident Numl E2MIS Sample Numl Submitter: ANGEL ( Description: SOLID-E	ber: Date Analyzed: ber: Date Received: 01/19/01 Date Sampled: 01/18/01 CHANG DRUMS,3 AV YD
*** TCLP Results Of Analysis ***         Description: B-12S DRUMS SAMPLE TYPE: SOLID         Location: THIRD AVE YD         METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311         ANALYTE RESULTS UNITS ANALYTE RESULTS UNITS         Arsenic Benzene         Barium Carbon Tetrachloride         Cadmium Chlorobenzene         Chromium Chloroform         Lead 0.44 mg/L 1,2-Dichloroethane         Metruly Ethyl Ketone         Silver Tetrachloroethene         Trichloroethene         Trichloroethene         Vinyl Chloride         SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311	NOTE: THE SUBMIT WORKING WITH NOT BE REPRO THIS REPORT R	ITER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES I OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL DUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL.
Location: THIRD AVE YD METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 ANALYTE RESULTS UNITS ANALYTE RESULTS UNITS Arsenic Benzene Barium Carbon Tetrachloride Cadmium Chlorobenzene Chromium Chloroform Lead 0.44 mg/L 1,2-Dichloroethane Mercury 1,1-Dichloroethane Mercury 1,1-Dichloroethene Selenium Methyl Ethyl Ketone Silver Tetrachloroethene Trichloroethene Vinyl Chloride SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311		P Results Of Analysis ***
ANALYTE       RESULTS UNITS ANALYTE       RESULTS UNITS         Arsenic       Benzene       Barium       Carbon Tetrachloride         Barium       Carbon Tetrachloride       Cadmium       Chlorobenzene         Chromium       Chlorobenzene       Chloroform         Lead       0.44       mg/L       1,2-Dichloroethane         Mercury       1,1-Dichloroethene       Selenium         Selenium       Methyl Ethyl Ketone         Silver       Tetrachloroethene         Trichloroethene       Trichloroethene         Vinyl Chloride       SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311		
	ANALYTE I Arsenic Barium Cadmium Chromium Lead 0.44 Mercury Selenium	RESULTS UNITS ANALYTE RESULTS UNITS Benzene Carbon Tetrachloride Chlorobenzene Chloroform 4 mg/L 1,2-Dichloroethane 1,1-Dichloroethene Methyl Ethyl Ketone Tetrachloroethene Trichloroethene
o-CresolEndinm-CresolLindanep-CresolMethoxychlor1,4-DichlorobenzeneToxaphene2,4-DinitrotolueneChlordaneHexachlorobenzeneHeptachlorHexachlorobutadieneHeptachlor EpoxideHexachloroethaneHERBICIDES: USEPA SW846 8151/1311Pentachlorophenol2,4-DPyridineSilvex (2,4,5-TP)2,4,5-TrichlorophenolSilvex (2,4,5-TP)	o-Cresol m-Cresol p-Cresol 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachlorobutadiene Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	Endrin Lindane Methoxychlor e Toxaphene Chlordane Heptachlor e Heptachlor Epoxide HERBICIDES: USEPA SW846 8151/1311 2,4-D Silvex (2,4,5-TP)

NOTE: Vacant fields indicate test not requested.

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To:         <0	CHEMLIMS@tao.coned.com> CHANGA@CONED.COM> 24/01 3:35PM 24NGEL CHANG 01-00591
ENVIF	ONSOLIDATED EDISON JAN. 24 2001 RONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380
E2MIS Incident Num E2MIS Sample Num Submitter: ANGEL Description: SOLID-I	ber: Date Received: 01/19/01 Date Sampled: 01/17/01 CHANG
WORKING WITH NOT BE REPRO	TTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES I OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL DDUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. RELATES ONLY TO THE ITEMS TESTED.
*** TCL	P Results Of Analysis ***
Description: B-19S Description: THIRD A	
ANALYTE Arsenic Barium Cadmium Chromium Lead 0.0 Mercury Selenium Silver	W846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 RESULTS UNITS ANALYTE RESULTS UNITS Benzene Carbon Tetrachloride Chlorobenzene Chloroform 93 mg/L 1,2-Dichloroethane 1,1-Dichloroethene Methyl Ethyl Ketone Tetrachloroethene Trichloroethene Vinyl Chloride USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311
o-Cresol m-Cresol p-Cresol 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadien Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	Endrin Lindane Methoxychlor Toxaphene Chlordane Heptachlor e Heptachlor Epoxide HERBICIDES: USEPA SW846 8151/1311 2,4-D Silvex (2,4,5-TP)

Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number:01-00591-014Date Reported:01/24/01E2MIS Incident Number:Date Analyzed:E2MIS Sample Number:Date Received:01/19/01Date Sampled:01/18/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

**TSL Analyst: J.CHARLES** 

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\*\*\* TCLP Results Of Analysis \*\*\*

Description: B-18S (A) DRUMS SAMPLE TYPE: SOLID

Description: B-18S (A) DRUMS Location: THIRD AVE YD

METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 ANALYTE RESULTS UNITS ANALYTE RESULTS UNITS Arsenic Benzene

Arsenic		Denzene
Barium		Carbon Tetrachloride
Cadmium		Chlorobenzene
Chromium		Chloroform
Lead	0.21	mg/L 1,2-Dichloroethane
Mercury		1,1-Dichloroethene
Selenium		Methyl Ethyl Ketone
Silver		Tetrachloroethene
		Trichloroethene
		Vinyl Chloride

SEMI-VOLATILES: USEPA SW846 8270C/1311PESTICIDES: USEPA SW846 8081/1311o-CresolEndrinm-CresolLindanep-CresolMethoxychlor1,4-DichlorobenzeneToxaphene2,4-DinitrotolueneChlordaneHexachlorobenzeneHeptachlorHexachlorobutadieneHeptachlor Epoxide

Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol

HERBICIDES: USEPA SW846 8151/1311 2,4-D Silvex (2,4,5-TP)

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number:01-00591-015Date Reported:01/24/01E2MIS Incident Number:Date Analyzed:E2MIS Sample Number:Date Received:01/19/01Date Sampled:01/18/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

TSL Analyst: J.CHARLES

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\*\*\* TCLP Results Of Analysis \*\*\*

Description: S GEOPROBE DRUM SAMPLE TYPE: SOLID Location: THIRD AVE YD					
METALS: USE ANALYTE Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	PA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 RESULTS UNITS ANALYTE RESULTS UNITS Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1.9 mg/L 1,2-Dichloroethane 1,1-Dichloroethene Methyl Ethyl Ketone Tetrachloroethene Trichloroethene				

#### Vinyl Chloride

SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311 o-Cresol Endrin

o-Cresol m-Cresol p-Cresol 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachlorobutadiene Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol

Lindane Methoxychlor Toxaphene Chlordane Heptachlor Heptachlor Epoxide HERBICIDES: USEPA SW846 8151/1311 2,4-D Silvex (2,4,5-TP)

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

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#### Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number:01-00591-014Date Reported:01/24/01E2MIS Incident Number:Date Analyzed:E2MIS Sample Number:Date Received:01/19/01Date Sampled:01/18/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

**TSL Analyst: J.CHARLES** 

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\*\*\* TCLP Results Of Analysis \*\*\*

Description: B-18S (A) DRUMS SAMPLE TYPE: SOLID Location: THIRD AVE YD

METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 ANALYTE RESULTS UNITS ANALYTE RESULTS UNITS Arsenic Benzene

Barium		Carbon Tetrachloride
Cadmium		Chlorobenzene
Chromium		Chloroform
Lead	0.21	mg/L 1,2-Dichloroethane
Mercury		1,1-Dichloroethene
Selenium		Methyl Ethyl Ketone
Silver		Tetrachloroethene
		Trichloroethene
		Vinyl Chloride

SEMI-VOLATILES: USEP	SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311
o-Cresol	Endrin
m-Cresol	Lindane
p-Cresol	Methoxychlor
1,4-Dichlorobenzene	Toxaphene
2,4-Dinitrotoluene	Chlordane
Hexachlorobenzene	Heptachlor
Hexachlorobutadiene	Heptachlor Epoxide

Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol

HERBICIDES: USEPA SW846 8151/1311 2,4-D Silvex (2,4,5-TP)

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number: 01-00591-015 E2MIS Incident Number: E2MIS Sample Number:

00591-015 Date Reported: 01/24/01 Date Analyzed: Date Received: 01/19/01 Date Sampled: 01/18/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

TSL Analyst: J.CHARLES

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\*\*\* TCLP Results Of Analysis \*\*\*

Description: S GEOPROBE DRUM SAMPLE TYPE: SOLID Location: THIRD AVE YD					
METALS: USE ANALYTE Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	PA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 RESULTS UNITS ANALYTE RESULTS UNITS Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1.9 mg/L 1,2-Dichloroethane 1,1-Dichloroethene Methyl Ethyl Ketone Tetrachloroethene Trichloroethene				

#### Vinyl Chloride

Endrin

SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311

o-Cresol m-Cresol p-Cresol 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachlorobutadiene Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol

Lindane Methoxychlor Toxaphene Chlordane Heptachlor Heptachlor Epoxide HERBICIDES: USEPA SW846 8151/1311 2,4-D Silvex (2,4,5-TP)

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

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Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### JAN. 24 2001 CONSOLIDATED EDISON **ENVIRONMENTAL, HEALTH & SAFETY** ELAP# 10380 CHEMLAB

Lab Sequence Number: 01-00591-008 E2MIS Incident Number: E2MIS Sample Number:

Date Reported: 01/24/01 Date Analyzed: Date Received: 01/19/01 Date Sampled: 01/17/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

TSL Analyst: J.CHARLES

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\*\*\* TCLP Results Of Analysis \*\*\*

Description: B-18S DRUMS Location: THIRD AVE YD

Silver

SAMPLE TYPE: SOLID

METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 RESULTS UNITS ANALYTE **RESULTS UNITS** ANALYTE Benzene Arsenic Carbon Tetrachloride Barium Cadmium Chlorobenzene Chloroform Chromium <0.05 mg/L 1,2-Dichloroethane Lead

1.1-Dichloroethene Mercury Methyl Ethyl Ketone Selenium Tetrachloroethene Trichloroethene Vinyl Chloride

SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311

o-Cresol	Endrin
m-Cresol	Lindane
p-Cresol	Methoxychlor

1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Toxaphene Chlordane Heptachlor Heptachlor Epoxide

HERBICIDES: USEPA SW846 8151/1311 2,4-D Silvex (2,4,5-TP)

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number:01-00591-009Date Reported:01/24/01E2MIS Incident Number:Date Analyzed:E2MIS Sample Number:Date Received:01/19/01Date Sampled:01/17/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

TSL Analyst: J.CHARLES

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

Description: N GEOPROBE DRUM SAMPLE TYPE: SOLID Location: THIRD AVE YD METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 ANALYTE RESULTS UNITS ANALYTE RESULTS UNITS

ANALYIE	RESULTS UNITS ANALTE	
Arsenic	Benzene	
Barium	Carbon Tetrachloride	
Cadmium	Chlorobenzene	
Chromium	Chloroform	
Lead	0.76 mg/L 1,2-Dichloroethane	

Mercury Selenium Silver 1,1-Dichloroethene Methyl Ethyl Ketone Tetrachloroethene Trichloroethene Vinyl Chloride

SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311 Endrin o-Cresol m-Cresol Lindane p-Cresol Methoxychlor Toxaphene 1,4-Dichlorobenzene Chlordane 2.4-Dinitrotoluene Heptachlor Hexachlorobenzene Heptachlor Epoxide Hexachlorobutadiene Hexachloroethane HERBICIDES: USEPA SW846 8151/1311 Nitrobenzene 2,4-D Pentachlorophenol Silvex (2,4,5-TP) Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number:01-00591-010Date Reported:01/24/01E2MIS Incident Number:Date Analyzed:E2MIS Sample Number:Date Received:01/19/01

Date Sampled: 01/18/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

TSL Analyst: J.CHARLES

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\_\_\_\_\_\_

\*\*\* TCLP Results Of Analysis \*\*\*

Description: B-20S DRU Location: THIRD AVE	MS SAMPLE TYPE: SOLID YD
ANALYTE RES Arsenic Barium Cadmium Chromium	46 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 SULTS UNITS ANALYTE RESULTS UNITS Benzene Carbon Tetrachloride Chlorobenzene Chloroform mg/L 1,2-Dichloroethane 1,1-Dichloroethene Methyl Ethyl Ketone Tetrachloroethene Trichloroethene Vinyl Chloride
SEMI-VOLATILES: USI o-Cresol m-Cresol p-Cresol 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachlorobutadiene Hexachlorobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	EPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311 Endrin Lindane Methoxychlor Toxaphene Chlordane Heptachlor Heptachlor Epoxide HERBICIDES: USEPA SW846 8151/1311 2,4-D Silvex (2,4,5-TP)

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number:01-00591-011Date Reported:01/24/01E2MIS Incident Number:Date Analyzed:E2MIS Sample Number:Date Received:01/19/01Date Sampled:01/18/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD

#### Facility: 511 THEODORE FREMD AVE

#### **TSL Analyst: J.CHARLES**

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\*\*\* TCLP Results Of Analysis \*\*\* SAMPLE TYPE: SOLID **Description: B-11S DRUMS** 

Location: THIRD AVE YD

Silver

METALS: USEF	PA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 RESULTS UNITS ANALYTE RESULTS UNITS
Arsenic	Benzene
Barium	Carbon Tetrachloride
Cadmium	Chlorobenzene
Chromium	Chloroform
Lead	0.78 mg/L 1,2-Dichloroethane
Mercury	1,1-Dichloroethene
Selenium	Methyl Ethyl Ketone

SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311 Endrin o-Cresol m-Cresol Lindane Methoxychlor p-Cresol Toxaphene 1.4-Dichlorobenzene Chlordane 2.4-Dinitrotoluene Heptachlor Hexachlorobenzene Heptachlor Epoxide Hexachlorobutadiene Hexachloroethane HERBICIDES: USEPA SW846 8151/1311 Nitrobenzene Pentachlorophenol 2.4-D Silvex (2,4,5-TP) Pyridine 2,4,5-Trichlorophenol

Tetrachloroethene

Trichloroethene **Vinyl Chloride** 

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

2,4,6-Trichlorophenol

Approved By: CELESTINE Title: Supervisor

CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY
CHEMLAB ELAP# 10380
Lab Sequence Number: 01-00591-012 Date Reported: 01/24/01 E2MIS Incident Number: Date Analyzed: E2MIS Sample Number: Date Received: 01/19/01 Date Sampled: 01/18/01 Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE
TSL Analyst: J.CHARLES NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.
*** TCLP Results Of Analysis *** ==================================
Description: B-13S DRUMS SAMPLE TYPE: SOLID Location: THIRD AVE YD
METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311         ANALYTE       RESULTS UNITS ANALYTE         Arsenic       Benzene         Barium       Carbon Tetrachloride         Cadmium       Chlorobenzene         Chloroform         Lead       1.9         Metry       1,1-Dichloroethane         Selenium       Methyl Ethyl Ketone         Silver       Tetrachloroethene         Vinyl Chloride       Vinyl Chloride
SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311o-CresolEndrinm-CresolLindanep-CresolMethoxychlor1,4-DichlorobenzeneToxaphene2,4-DinitrotolueneChlordaneHexachlorobenzeneHeptachlorHexachlorobutadieneHeptachlor EpoxideHexachloroethaneJitrobenzeneNitrobenzeneLINERBICIDES: USEPA SW846 8151/1311Pentachlorophenol2,4-DPyridineSilvex (2,4,5-TP)2,4,6-TrichlorophenolSilvex (2,4,5-TP)
Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE

Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

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<CHEMLIMS@tao.coned.com> From: <CHANGA@CONED.COM> To: 1/24/01 3:35PM Date: 01-00591 By ANGEL CHANG Subject: CONSOLIDATED EDISON JAN. 24 2001 **ENVIRONMENTAL, HEALTH & SAFETY** ELAP# 10380 CHEMLAB Date Reported: 01/24/01 Lab Sequence Number: 01-00591-007 Date Analyzed: E2MIS Incident Number: Date Received: 01/19/01 E2MIS Sample Number: Date Sampled: 01/17/01 Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE **TSL Analyst: J.CHARLES** NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. \_\_\_\_\_\_ \*\*\* TCLP Results Of Analysis \*\*\* SAMPLE TYPE: SOLID **Description: B-19S DRUMS** Location: THIRD AVE YD METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 **RESULTS UNITS ANALYTE RESULTS UNITS** ANALYTE Arsenic Benzene Carbon Tetrachloride Barium Chlorobenzene Cadmium Chloroform Chromium 0.093 mg/L 1,2-Dichloroethane Lead 1,1-Dichloroethene Mercurv Methyl Ethyl Ketone Selenium Tetrachloroethene Silver Trichloroethene **Vinyl Chloride** SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311 o-Cresol Endrin Lindane m-Cresol Methoxychlor p-Cresol Toxaphene 1.4-Dichlorobenzene Chlordane 2.4-Dinitrotoluene Heptachlor Hexachlorobenzene Heptachlor Epoxide Hexachlorobutadiene Hexachloroethane HERBICIDES: USEPA SW846 8151/1311 Nitrobenzene 2.4-D Pentachlorophenol Silvex (2,4,5-TP) Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol

From: To: Date: Subject:	<chemlims@tao.coned.com> <changa@coned.com> 1/24/01 3:35PM By ANGEL CHANG 01-00591</changa@coned.com></chemlims@tao.coned.com>
	CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380
Lab Sequenc E2MIS Incide E2MIS Samp	
Description: S	NGEL CHANG SOLID-DRUMS,3 AV YD I THEODORE FREMD AVE
WORKIN	J.CHARLES SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES G WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. PORT RELATES ONLY TO THE ITEMS TESTED.
==========	*** TCLP Results Of Analysis ***
Description: I	B-2N DRUMS SAMPLE TYPE: SOLID HIRD AVE YD
ANALYTE Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1.1 mg/L 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Methyl Ethyl Ketone Tetrachloroethene Vinyl Chloride TILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311 Endrin Lindane Methoxychlor benzene Denzene Heptachlor benzene Heptachlor Epoxide e thane e HERBICIDES: USEPA SW846 8151/1311 phenol 2,4-D Silvex (2,4,5-TP)

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### JAN. 24 2001 CONSOLIDATED EDISON ENVIRONMENTAL, HEALTH & SAFETY ELAP# 10380 CHEMLAB

Lab Sequence Number: 01-00591-002 Date Reported: 01/24/01 E2MIS Incident Number: Date Analyzed: Date Received: 01/19/01 E2MIS Sample Number: Date Sampled: 01/17/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

**TSL Analyst: J.CHARLES** 

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\*\*\* TCLP Results Of Analysis \*\*\*

Description: B-3N DRUMS SAMPLE TYPE: SOLID Location: THIRD AVE YD
METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311         ANALYTE       RESULTS UNITS ANALYTE         Arsenic       Benzene         Barium       Carbon Tetrachloride         Cadmium       Chlorobenzene         Chromium       Chloroform         Lead       0.86       mg/L         Mercury       1,1-Dichloroethene         Selenium       Methyl Ethyl Ketone         Silver       Tetrachloroethene         Vinyl Chloride       Vinyl Chloride
SEMI-VOLATILES: USEPA SW846 8270C/1311PESTICIDES: USEPA SW846 8081/1311o-CresolEndrinm-CresolLindanep-CresolMethoxychlor

p-Cresol Toxaphene 1,4-Dichlorobenzene

2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Chlordane Heptachlor Heptachlor Epoxide

HERBICIDES: USEPA SW846 8151/1311 2,4-D Silvex (2,4,5-TP)

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number:01-00591-003Date Reported:01/24/01E2MIS Incident Number:Date Analyzed:E2MIS Sample Number:Date Received:01/19/01Date Sampled:01/17/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

**TSL Analyst: J.CHARLES** 

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\*\*\* TCLP Results Of Analysis \*\*\*

Description: B-1 Location: THI	
METALS: USER	PA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311
ANALYTE	RESULTS UNITS ANALYTE RESULTS UNITS
Arsenic	Benzene
Barium	Carbon Tetrachloride
Cadmium	Chlorobenzene
Chromium	Chloroform
Lead	0.80 mg/L 1,2-Dichloroethane
Mercury	1,1-Dichloroethene

Methyl Ethyl Ketone Selenium Tetrachloroethene Silver Trichloroethene Vinyl Chloride SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311 Endrin o-Cresol Lindane m-Cresol Methoxychlor p-Cresol Toxaphene 1.4-Dichlorobenzene Chlordane 2,4-Dinitrotoluene Heptachlor Hexachlorobenzene Heptachlor Epoxide Hexachlorobutadiene Hexachloroethane HERBICIDES: USEPA SW846 8151/1311 Nitrobenzene Pentachlorophenol 2.4-D Silvex (2,4,5-TP) Pyridine 2.4.5-Trichlorophenol 2,4,6-Trichlorophenol

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number:01-00591-004Date Reported:01/24/01E2MIS Incident Number:Date Analyzed:E2MIS Sample Number:Date Received:01/19/01Date Sampled:01/17/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

TSL Analyst: J.CHARLES

NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.

\*\*\* TCLP Results Of Analysis \*\*\*

Description: B-14S DRUMS

SAMPLE TYPE: SOLID

#### Location: THIRD AVE YD

METALS: USEP	A SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311
ANALYTE	RESULTS UNITS ANALYTE RESULTS UNITS
Arsenic	Benzene
Barium	Carbon Tetrachloride
Cadmium	Chlorobenzene
Chromium	Chloroform
Lead	0.39 mg/L 1,2-Dichloroethane
Mercury	1,1-Dichloroethene
Selenium	Methyl Ethyl Ketone
Silver	Tetrachloroethene
	Trichloroethene
	Vinyl Chloride
SEMI-VOLATILE o-Cresol m-Cresol p-Cresol 1,4-Dichloroben 2,4-Dinitrotoluer Hexachlorobenz Hexachlorobuta Hexachlorobuta Nitrobenzene Pentachlorophe Pyridine 2,4,5-Trichlorop 2,4,6-Trichlorop	ne Chlordane tene Heptachlor diene Heptachlor Epoxide ne HERBICIDES: USEPA SW846 8151/1311 nol 2,4-D Silvex (2,4,5-TP) henol
	-Test Lebersteries Inc. EL AP# 10320

Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320

NOTE: Vacant fields indicate test not requested.

Approved By: CELESTINE Title: Supervisor

#### CONSOLIDATED EDISON JAN. 24 2001 ENVIRONMENTAL, HEALTH & SAFETY CHEMLAB ELAP# 10380

Lab Sequence Number:01-00591-005DE2MIS Incident Number:Date AnE2MIS Sample Number:Date R

00591-005 Date Reported: 01/24/01 Date Analyzed: Date Received: 01/19/01 Date Sampled: 01/17/01

Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE

SL Analyst: J.CHARLES OTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED.
*** TCLP Results Of Analysis ***
escription: B-4N DRUMS SAMPLE TYPE: SOLID ocation: THIRD AVE YD
METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311         NALYTE       RESULTS UNITS ANALYTE         Results       Benzene         Barium       Carbon Tetrachloride         Cadmium       Chlorobenzene         Chromium       Chloroform         ead       0.40         Mercury       1,1-Dichloroethane         Selenium       Methyl Ethyl Ketone         Silver       Tetrachloroethene         Vinyl Chloride       Vinyl Chloride
SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311         p-Cresol       Endrin         n-Cresol       Lindane         p-Cresol       Methoxychlor         r_4-Dichlorobenzene       Toxaphene         2,4-Dinitrotoluene       Chlordane         Hexachlorobenzene       Heptachlor         Hexachlorobenzene       Heptachlor         Hexachlorobenzene       Heptachlor         Hexachlorobenzene       Heptachlor         Hexachlorobenzene       Heptachlor         Hexachlorobenzene       Heptachlor         Hexachlorobenzene       Silvex (2,4,5-TP)         2,4,5-Trichlorophenol       Silvex (2,4,5-TP)
Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320
NOTE: Vacant fields indicate test not requested.
Approved By: CELESTINE

Title: Supervisor

CONSOLIDATED EDISON JAN. 24 2001

ENVIRONMENTAL, HEALTH & SAFETY ELAP# 10380 CHEMLAB Lab Sequence Number: 01-00591-006 Date Reported: 01/24/01 Date Analyzed: E2MIS Incident Number: Date Received: 01/19/01 E2MIS Sample Number: Date Sampled: 01/17/01 Submitter: ANGEL CHANG Description: SOLID-DRUMS,3 AV YD Facility: 511 THEODORE FREMD AVE **TSL Analyst: J.CHARLES** NOTE: THE SUBMITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES WORKING WITH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. \*\*\* TCLP Results Of Analysis \*\*\* SAMPLE TYPE: SOLID Description: B-5N DRUMS Location: THIRD AVE YD METALS: USEPA SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 RESULTS UNITS ANALYTE **RESULTS UNITS** ANALYTE Benzene Arsenic Carbon Tetrachloride Barium Chlorobenzene Cadmium Chloroform Chromium mg/L 1,2-Dichloroethane 3.5 Lead 1,1-Dichloroethene Mercury Methyl Ethyl Ketone Selenium Tetrachloroethene Silver Trichloroethene Vinyl Chloride SEMI-VOLATILES: USEPA SW846 8270C/1311 PESTICIDES: USEPA SW846 8081/1311 Endrin o-Cresol Lindane m-Cresol Methoxychlor p-Cresol Toxaphene 1,4-Dichlorobenzene 2,4-Dinitrotoluene Chlordane Heptachlor Hexachlorobenzene Heptachlor Epoxide Hexachlorobutadiene Hexachloroethane HERBICIDES: USEPA SW846 8151/1311 Nitrobenzene 2.4-D Pentachlorophenol Silvex (2,4,5-TP) Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Analyzed by: EcoTest Laboratories, Inc. ELAP# 10320 NOTE: Vacant fields indicate test not requested. Approved By: CELESTINE Title: Supervisor

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To:         <0	CHEMLIMS@tao.coned.com> CHANGA@CONED.COM> /24/01 3:35PM y ANGEL CHANG 01-00591
E2MIS Incident Nun E2MIS Sample Num Submitter: ANGEL Description: SOLID-	nber: Date Received: 01/19/01 Date Sampled: 01/18/01 CHANG
WORKING WIT	ARLES ITTER SHALL POST AND/OR PROVIDE THESE RESULTS TO ALL EMPLOYEES TH OR IN THE VICINITY OF THIS SUBSTANCE. THIS REPORT SHALL ODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TSL. RELATES ONLY TO THE ITEMS TESTED.
*** TCL	LP Results Of Analysis ***
Description: B-12S Location: THIRD	
ANALYTE Arsenic Barium Cadmium Chromium Lead 0.4 Mercury Selenium Silver	SW846 6010/HG7471A/1311 VOLATILES: USEPA SW846 8260/624/1311 RESULTS UNITS ANALYTE RESULTS UNITS Benzene Carbon Tetrachloride Chlorobenzene Chloroform 44 mg/L 1,2-Dichloroethane 1,1-Dichloroethene Methyl Ethyl Ketone Tetrachloroethene Trichloroethene Vinyl Chloride
SEMI-VOLATILES: o-Cresol p-Cresol 1,4-Dichlorobenzen 2,4-Dinitrotoluene Hexachlorobenzen Hexachlorobutadie Hexachlorobutadie Hexachlorobutadie Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	Chlordane Heptachlor Heptachlor Epoxide HERBICIDES: USEPA SW846 8151/1311 1 2,4-D Silvex (2,4,5-TP)

NOTE: Vacant fields indicate test not requested.

## Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

02/23/2001

## Lead, Total

## Sample: K2599-13

Collected: 02/08/2001 17:20

Client Sample ID: MW-4N Matrix: Liquid Remarks: -----

Type: Grab

Analyzed Da	te: 02/19/2001	MDL	Concentration	Units C	2
Cas No	Analyte	13.0	542000	ррь	
7439-92-1	Lead			11 E	

### Sample: K2599-15

Collected: 02/08/2001 18:00

Client Sample ID: 3rd Avenue	Yard Drums
Matrix: Liquid	Type: Composite
Remarks: Analyzed Date: 02/14/2001	

Analyz	red Da	te: 02/	4/2001		MDL	Concentration	Units	Q
Cas	No		Analy	te	1.44	10.1	ppb	
743	9-92-1	Lead			1			

₽ 井井 47 Environmental Testing Laboratories, Inc. 208 Route 109, Farmingdale NY 11735

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

02/23/2001

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## Flash Point - Ignitability

## Sample: K2599-15

Collected: 02/08/2001 18:00

Units

Client Sample ID: 3rd Avenue Yard Drums Type: Composite Matrix: Liquid Remarks: Analyzed Date: 02/20/2001

	Analyzed Da			MDL	Result	Units	Q	
ſ	Cas No	Flash Point	Analyte	1.00	>100	deg C		J
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## Environmental Testing Laboratories. Inc.

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

02/20/2001

#### Custody Document: K2603

Received: 02/09/2001 14:15 Sampled by: N/A

#### Client: Con Edison-Accounts Payable (18200)

PO Box 799, Cooper Station New York, NY 10276

E-MAILED

#### Project: Con Ed

31-01 20th Avenue Astoria, NY Area: Third Avenue Yard

Manager: Angel Chang

Respectfully submitted,

Quality Assurance Officer

Post-it* Fax Note 7671	Date 2/20 # of pages 4
	From
Co./Dept.	Co.
Phone #	Phone #
rax	Fax #

NYS Lab ID # 10969 NJ Cert. # 73812 CT Cert. # PH0645 MA Cert. # NY061 PA Cert. # 68-535 VA Cert. # 108 NH Cert. # 252592-BA RI Cert. # 161



ETL

# Environmental Testing Laboratories, Inc.

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

## Lead, Total

#### 02/20/2001

## Sample: K2603-1

Γ

Client Sample ID: 01-01394-001 Third Avenue Yard Drum Matrix: Liquid Type: Grab Collected: 02/08/2001 18:15 Remarks: Analyzed Date: 02/14/2001 Cas No

7439-92-1	Lead	 MDL	Concentration	Units	1
		1.44	645	ppb	1



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2003/008

## Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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

ETL

02/20/2001

## Flash Point - Ignitability

Client Sample ID: 01-01394-001 Third Avenue Yard Drum (MW) Matrix: Liquid Type: Grat

Collected: 02/08/2001 18:15

Remarks: Analyzed Date: 02/20/2001

	Cas No	Analyte	MDL	Result	Units	Q		
l		Flash Point	1.00	>100	deg C	1	1	



## Environmental Testing Laboratories, Inc. 208 Route 109, Farmingdale NY 11735

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

02/20/2001

### **ORGANIC METHOD QUALIFIERS**

- Q Qualifier specified entries and their meanings are as follows:
  - U The analytical result is a non-detect.
  - J Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

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 identifies all compounds identified in an analysis at a secondary dilution.

## **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.
  - J Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.
- 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
  - NR when the analyte is not required to be analyzed.
  - P ICP
  - T Titrimetric



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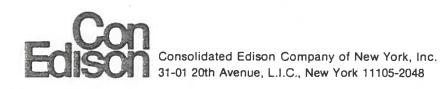
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info@jacqueswhitford.com www.jacqueswhitford.com







#### HAND DELIVERED

Ms. Kerry Foley Engineering Geologist New York State Department of Environmental Conservation Division of Environmental Remediation, Region 2 Spill Prevention and Response Hunters Point Plaza 47-40 21<sup>st</sup> Street Long Island City, New York 11101



RE: Third Avenue Yard 222 First Street Brooklyn, New York Site Characterization Report – Spill Nos. 9695014, 9608854 and 9808009

Dear Ms. Foley:

Enclosed please find the Site Characterization Report for the Third Avenue Yard. The conclusions in the Jacques Whitford Company's report are based in part on the analysis and interpretation of site investigation reports on the Mendon Truck Leasing Facility prepared by Mendon's consultant, Liro-Kassner, Inc. These reports are on file with the DEC.

If you have any questions please contact Mr. Angel Chang at (718) 204-4151.

Very truly yours,

Neale R. Bedrock Director, Remediation & Support Services Environment, Health & Safety

Enclosure.

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