Work Plan

Interim Remedial Measure (IRM) 221 Main Street City of White Plains Westchester County, New York

BCP Site # C360073

January 2006

Stearns & Wheler
Companies

WORK PLAN

INTERIM REMEDIAL MEASURE (IRM)
221 MAIN STREET
CITY OF WHITE PLAINS
WESTCHESTER COUNTY, NEW YORK

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221 MAIN STREET
WHITE PLAINS, NEW YORK

SECTION 1 - INTRODUCTION

This document presents an Interim Remedial Measure (IRM) Work Plan for the 221 Main Street site in White Plains, Westchester County, New York (Figure 1). This IRM Work Plan has been prepared in accordance with the Brownfield Cleanup Agreement (BCA) between the volunteer/owner of the site, LC Main, LLC, and the New York State Department of Environmental Conservation (NYSDEC). The basis for the IRM approach is derived from the draft *Remedial Investigation and Interim Remedial Measure (RI/IRM) Work Plan*, prepared by J.M. Associates, dated October 2005. This IRM Work Plan describes and expands upon the work elements specific to the IRM program that were introduced in the draft October 2005 document. The RI Work Plan has been created as a separate document and is based on the aforementioned October 2005 draft document.

The site (BCP Site # C360073) is currently improved with several commercial buildings along Main St and Hamilton Ave, and a municipal parking lot on the west side of the site (Figure 2). Plans have been drawn up to redevelop the site into a hotel and residential condominium complex, which would produce a visually attractive and economically valuable asset to the local community (Figure 3). In order to support such a plan, existing site buildings will be demolished, and a new street, Court Street Extension, will be constructed through the western side of the site.

Historically, it is known that underground storage tanks (USTs) have existed in various locations at the site. Previous site investigations have verified that at least ten (10) abandoned underground storage tanks (USTs) still exist at the site, and there is evidence of soil and groundwater contamination as well. These findings have complicated the planned redevelopment of the site. Specifically, the redevelopment plan requires that soils be excavated to a depth of approximately 50 feet to make way for new building foundations and construction. The site has been accepted into the BCP because the potential for encountering contaminated soil, groundwater, and abandoned USTs has complicated the excavation program, potentially impacting the site's redevelopment

potential. In addition, there is evidence of off-site contamination downgradient of the site, derived from on-site contamination in the northwest corner of the site.

Based on the finding of previous site investigations, it is known that contamination at the site can be divided into two (2) types:

(1) soil and groundwater contamination in the northwest corner of the site that has affected an off-site property downgradient of the site (the New York Power Authority), and

(2) soil contamination in the remainder of the site, which is mainly confined to on-site soils.

These two site areas are shown on Figure 2. The northwest site area in which soil and groundwater contamination has caused off-site contamination is referred to hereinafter as the "PA area". The balance of the site, where contamination confined to on-site soils, is referred to hereinafter as the "221 area".

Because the nature and extent of contamination at the PA area and the 221 area is different, the strategies to further investigate and/or remediate the two areas of the site will also be different. The PA area will require further investigation to determine the nature and extent of groundwater and free product contamination that may have migrated off site, so that an appropriate remedial action strategy can be developed. Accordingly, a separate RI Work Plan has been prepared to further investigate the PA area and potential off site receptors of site-related contamination.

Because contamination in the 221 area has been identified, and is confined to on-site soils, a soil removal program can be undertaken to completely remove contaminant source and contaminated media from this site area, without further investigation. An IRM will therefore be completed in the 221 area of the site, in accordance with NYSDEC's draft *Brownfield Cleanup Program Guide* (May 2004) and *Technical Guidance for Site Investigation and Remediation* (DER-10). The overall goal of the IRM is to remove potential sources of contamination at the site that may potentially expose future site occupants to contamination, and potentially affect off site areas. The specific objectives of the IRM are to:

- remove and disposal of debris, contaminated soil, and regulated fill material
- remove and disposal of all underground storage tanks (USTs)
- extract and treat contaminated groundwater as necessary

IRM activities will also be conducted in the PA area of the site, to remove the sources of contamination that have evidently affected the downgradient NYPA property. IRM work will be coordinated with RI activities in the PA area, in case the RI scope needs adjustment based on IRM findings.

Following the completion of the RI and the IRM, a Remedial Investigation Report (RIR) will be prepared and submitted summarizing the activities and findings of the RI. Based on the IRM activities and RI findings, a Remedial Action Work Plan (RAWP) will be prepared to address remaining contaminant exposure issues, if any.

The following sections of this IRM Work Plan describe the scope and methods of the IRM program, with reference to the separate RI program as appropriate. The background information presented and the proposed scope of work are based on the information that was initially presented in the draft RI/IRM Work Plan document (J.M. Associates, October 2005). Appendices to this IRM Work Plan are also derived from the October 2005 draft document, and include:

Appendix A	Quality Assurance Project Plan
Appendix B	Health and Safety Plan
Appendix C	Community Air Monitoring Plan
Appendix D	Citizen Participation Plan
Appendix E	Engineering Drawings, Cross Sections, and Excavation Support Plans

1.1 BACKGROUND

1.1.1 Physical Setting

The site is located at 221 Main Street in downtown of White Plains, Westchester County, New York (Figure 1). The site occupies the majority of one City block and contains 203 – 227 Main Street, and 293-303 Hamilton Ave (the municipal parking lot).

The area surrounding the site is commercial with a mix of retail and office space. The site is bound by Hamilton Avenue to the north, Church Street to the east, Main Street to the south, and the New York Power Authority (NYPA) Parking Garage to the west. The NYPA office building is located west of the parking garage (123 Main Street).

As indicated previously, the site is divided into two main areas, the PA area and the 221 area, as shown on Figure 2. This Work Plan describes the process for removing and disposing of USTs and impacted soils that are encountered during the implementation of this IRM.

The following is a description of the layout of the two site areas.

The 221 area included the former "Main Street building" (203-227 Main Street) and what was formerly known as the "Annex" building, plus former parking areas located behind (north of) the former Main Street building, and west of the Annex building. The Main Street Building had two (2) floors and contained retail establishments on the first floor and offices and two studio apartments on the second floor. The stores had basements used for storage, which exited to the parking area located behind the building. The Annex contained office space. The parking lot north of the Main Street building was known as the Halpern Lot and was privately owned and operated. The parking area west of the Annex building is the southern portion of former City Lot, which served as a municipal parking lot.

The northern portion of the former City Lot, where a police station was formerly located, comprises the PA area of the site. This portion of the City Lot is adjacent to the NYPA garage, west of the site.

Some of the properties that occupy the same block as the site are not considered part of the site under the BCA, and will remain intact after the site is redeveloped. These properties include a church at the southeast corner at the intersection of Main Street and Church Street; an office building located north of the church, at the intersection of Hamilton Avenue and Church Street; a building known as the Bar Building located next to the Main Street Building, at the south side of the site at the intersection of Court St and Main St.

Municipal water and sewer serve the site and the surrounding area. The nearest surface water body is the Bronx River, located approximately 1500 feet west of the Site.

1.1.2 Site Geology and Hydrogeology

Previous site investigations indicate a fairly uniform stratigraphic soil sequence across the site. A mixture of coarse-grained fill material and construction and demolition (C&D) debris exists from 2 to approximately 11 feet below ground surface (bgs). Medium to fine sand with silt and gravel exists below the fill from 13.5 to approximately 27 feet bgs. Below this layer, from approximately 30 feet bgs to a maximum soil boring depth of 59 feet bgs, is a layer of gray brown sand with silt and gravel, with occasional cobbles and boulders. Rock cores taken at the site during prior investigations indicate that the overburden is underlain by gneiss of the Fordham formation.

Figure 4 shows a general cross section for the site overburden sequence, based on soil boring logs from previous investigations. Appendix E includes hydrogeologic cross sections of the site relative to key aspects of the IRM and construction phases of the project.

Groundwater was encountered in soil borings completed at the site from 19 to 35 feet bgs. Groundwater flow is to the west, toward the Bronx River.

1.1.3 Site Redevelopment Plan

The planned development for the site consists of the construction of a hotel and condominium complex with retail establishments. The complex will contain approximately 200 hotel rooms, 200 condominiums and approximately 40,000 square feel of street level stores. A new street, known as Court Street Extension, will be constructed on the west side of the Site that connects Hamilton Ave and Main St. The complex will have an interconnected parking structure that will extend under Court Street Extension. The development plan is shown in Figure 3.

1.1.4 Areas of Concern (AOCs)

A number of previous investigations have been completed at the site, which have identified at least five (5) areas of concern (AOCs). The source of contamination in each

of the AOCs relates to the presence of historic petroleum storage tanks. These tanks are known or suspected of causing impact to soil and groundwater, based on findings of previously site investigations. The IRM will verify the extent of contamination in each AOC, and remove it from the site. Each AOC is described below.

AOC-1 includes a former UST that existed in an enclosed concrete vault at the former 203 Main Street building. This UST, which evidently contained fuel oil, was discovered in the former boiler room vault when the building was demolished. Based on its size, the UST volume was estimated to be 25,000 gallons. When the vault was opened it contained fuel oil that had evidently leaked from the UST, but the fuel oil appeared to be contained within the vault, with little evidence that it had impacted soil outside the vault. The UST, the remaining fuel oil, and the vault were all removed as part of the building demolition.

AOC-2 includes at least four (4) USTs west of the Annex building. Previous soil samples collected adjacent to the tank (B-1, May 2004) showed elevated levels of petroleum contamination.

AOC-3 includes the west side of the Halpern Lots, in the vicinity of previous soil boring B-3 (December 2002). AOC-3 is associated with the former theater that was located on the Halpern Lot. A UST is located in a concrete vault in the theater's former boiler room.

AOC-4 is the former location of the police department tank on the northwest side of the City Lot, adjacent to the NYPA garage. Although contaminated soils from this former tank have been excavated from the site, groundwater is known to be contaminated in this area, and is believed to extend downgradient (west) onto NYPA property.

AOC -5 is in the northeast corner of the site, near the former gasoline service station, where at least four (4) USTs have been discovered. Although these tanks and some contaminated soil have been removed, the general excavation for site redevelopment has not yet occurred in this area.

These five AOCs are depicted on Figure 5. As previously indicated, a separate RI is being conducted in the PA area of the site to investigate the nature and extent of contamination downgradient of AOC-4. AOCs 1, 2, 3, and 5, in the 221 area, will be

remediated without further investigation as part of this IRM. During the implementation of the IRM, the extent of soil and groundwater contamination associated with the tanks in each AOC will be determined, impacted soil and groundwater will be removed from the site, and confirmatory samples will be taken to substantiate that this was achieved. The IRM will also remediate the source of contamination for AOC-4 as the RI takes place in the PA area.

1.2 IRM OBJECTIVES

The IRM objectives for the site are to identify and remove sources of contamination, and contaminated soil, from the 221 area of the site. The goal of the IRM is to remove sources of contamination and contaminated media from the site, to minimize the potential for human exposure following site redevelopment, and prevent future off-site release of site contamination.

The IRM will be carried out in a manner that verifies the vertical and horizontal extent of soil and groundwater contamination within each AOC, and will include confirmatory soil samples to substantiate that this objective has been attained. The findings of the IRM will be presented in an IRM Report following completion of the work. The IRM Report will include the horizontal and vertical extent of all former tank locations, appurtenances, and contaminants; the estimated quantity of contaminated soil removed; and the results of confirmatory end-point samples and the locations from which they were collected.

SECTION 2 - IRM APPROACH

The basic IRM work elements will include:

- Removal and off-site disposal of all regulated fill materials, debris and contaminated soil identified in the subsurface.

- Removal of uncontaminated soil that can be used off-site as clean fill.

- Removal and off-site disposal of all underground storage tanks (USTs) discovered during excavation activities.

- Sampling of dewatering discharge to insure the off-site groundwater discharge meets NYSDEC discharge limits. Water discharge from the site will also follow all local water discharge regulations.

- Sampling and pumping of the previously installed Monitoring Well (MW) designated as MW #8.

During the course of the IRM, a number of additional control measures will be implemented to protect human health and the environment against exposure to site contaminants. These include:

- A **Community Air Monitoring Program** (CAMP). A CAMP will be implemented during IRM excavation and hauling of soils. The CAMP will monitor the potential for off-site migration of dust (particulates) and organic vapors. The CAMP is included as Appendix C of this IRM Work Plan.

- **Sediment/Erosion Control Measures.** Actions will be taken to control erosion of soil and transport off site. These actions are described in subsequent sections of this IRM Work Plan.

- **Storm Water Controls.** Rain water and runoff that collects in the excavation will be managed in the same manner as groundwater. Storm water from the site will be managed to control off-site discharges. Storm water controls are described in subsequent sections of this IRM Work Plan.

The following sections present the IRM approach that will be taken for the two main areas of the site.

2.1 221 AREA

2.1.1 Excavation Plan

Soils at the site consist of coarse to fine sand with variable, but generally high silt content. Gneiss and quartzite bedrock exists at elevations of 165 to 170 feet above mean sea level (amsl). Groundwater at the site occurs at about 195 amsl.

The 221 area will be excavated in most areas down to bedrock to accommodate the construction of the new buildings. Based on the depth to bedrock, excavation across most of the site will reach 30 to 35 feet deep, but in some areas the excavation may approach 50 feet deep. The planned limits of excavation extend up to the site boundary (see Figure 2).

Soldier pile beams around the entire site perimeter will secure the excavation area. Figures E-1 though E-10, in Appendix E, show the design of the soldier piles relative to adjacent off-site buildings.

During excavation, soil in the four AOCs in the 221 area (see Figure 5) will be excavated and live loaded for off-site disposal conforming to all applicable NYS regulations. Some stockpiling of soils may also occur if necessary, but due to spatial constraints the stockpile of contaminated soils will be removed within a few days of staging. All staged soils will be placed on plastic sheeting, and covered with plastic sheeting at the conclusion of each work day.

All contaminated soil (see Section 2.1.2) will be disposed at a NYDEC permitted facility and a non-hazardous waste manifest and weight ticket will me submitted upon completion of the excavation activities. All excavated soils that are determined to be non-contaminated and/or natural based on laboratory analysis of representative samples (see Section 2.1.2) will be removed from the site for reuse as clean fill.

During IRM excavation activities in each AOC, soil will be visually observed and continuously screened with a photoionization detector (PID) for the presence of petroleum contamination. Outside the AOCs, for excavation related to the future construction project, a PID may also be used in certain cases, to screen soil if there is visual and/or olfactory evidence of soil contamination.

In certain AOCs additional excavation may be needed beyond the UST areas. The need for and extent of further excavation of the contaminated areas in each AOC will be based on visual observations and screening with a PID. In these AOCS, when the excavation appears clean and there are no elevated readings on the PID greater than 75 ppm (see Section 2.1.2), samples will be collected from the excavation sidewalls and bottom to ensure all contaminated material has been removed (see Section 2.1.3).

The excavation of AOC-4 will follow a somewhat different approach (see Section 2.2.1). Excavation in AOC-4, in the PA area of the site, will continue off-site toward the NYSPA parking garage as far as possible without affecting the structure. Data collected from borings and monitoring wells installed and sampled as part of the RI will determine whether further remedial action for AOC-4 is needed beyond what is achieved by the IRM.

The AOCs shown on Figure 5 are approximate and will be modified or expanded as IRM excavation activities progress. Soil excavation outside the AOCs will be screened for contamination with a PID, and handled in accordance with the PID field screening guidelines presented in Section 2.1.2 below.

Soil at the site is known to contain a large proportion of fill material, some of which is C&D debris. Most notably, a large portion of the 221 area has been historically backfilled with demolition debris from the movie theater that was formerly located there. Historic fill material encountered in the 221 area will be passed through a 2-inch miner's screen to remove bricks, concrete, metals, and other debris. Metal that is separated from the fill will be taken to a recycling facility. The balance of C&D material that is separated from the fill will be disposed of at permitted off site C&D disposal facilities.

The rest of the historic fill will be screened in accordance with PID screening procedures set forth below (see Section 2.1.2). If determined to be uncontaminated, this fill may be used as temporary fill at the site. In addition, a beneficial use determination (BUD) has been received from NYSDEC for site fill to be used at off site locations. Materials that meet the requirements of the BUD will be managed in accordance with the BUD.

Contaminated soils that are encountered during the excavation are to be removed from the site as soon as possible to reduce potential exposure and to prevent contaminant releases. These soils are generally live-loaded into trucks, but occasionally may be stockpiled as previously indicated. Petroleum impacted soils will be appropriately manifested, so that identification of the hauler and disposal facilities are duly recorded. Continual visual and PID field-testing (see below) will be used to determine the excavated soil classification.

2.1.2 PID Screening and Soil Characterization

Continual visual inspection and grab sampling will be performed to determine if the excavated soils are contaminated. Field soil screening will be performed using a calibrated photoionization detector (PID) using the headspace method. Data collection with the PID at various environmental investigations of fuel oil and gasoline - contaminated sites have shown that after calibration that PID head space readings below 75 ppm will meet the NYSDEC TAGM 4046 Recommended Cleanup Objectives for total VOCs and SVOCs, when the soil is analyzed by a NY State ELAP-certified laboratory for volatile and semi-volatile organic compounds by EPA Methods 8021 and 8270.[1] A PID level comparison chart, and confirmatory laboratory results are included as Appendix C of the QAPP (see *QAPP* in IRM Work Plan Appendix A), and show that the PID readings for the petroleum contaminated soils can be used to determine whether TAGM 4046 regulatory limits are met for VOCs and SVOCs.

During excavation, soils will be screened with a PID, and visually examined. Soils that have a petroleum odor, are visibly contaminated, or have a headspace PID reading above 75 ppm will be removed from the site and disposed as solid waste.

Continual field supervision of soil excavation and field screening of the excavated soils will be employed, together with confirmatory laboratory sampling, to provide rapid decision making relative to the disposition of the excavated soils. Grab samples of soil will be taken of all the various excavated soil, at an approximate frequency of one grab sample per every 500 tons of excavated soil, and forwarded to York Analytical Laboratory (York), a NYS ELAP-certified laboratory, for analysis by EPA Method 8021 volatile organic compounds (VOCs) and Method 8270 Semi-VOCs. For soils that are determined to require off site disposal, further sampling and analysis may be needed, as required by the permitted disposal facility. Analysis will be completed within one week of receipt by the laboratory, and the analytical results for the grab samples will be forwarded to NYSDEC on a weekly basis, along with the weekly PID field screening record, to verify that the PID results are providing a valid indication of soil contaminant concentrations.

[1] The detection limit for benzene, as reported in the laboratory reports in the QAPP, is 5 ug/Kg, which is above the TAGM RSCO of 0.7 ug/Kg.

Because of the limited space at the site, contaminated soils will either be live loaded for immediate disposal or temporary stockpiled for a few days awaiting disposal.

As construction at the site progresses, the areas to stockpile soils will diminish and both the natural soils and any contaminated soils will have to be live loaded and removed from the site for disposal.

Any tanks that are encountered during the excavation will be removed and properly disposed of off-site. This work will be performed as defined in the NYSDEC DER-10 Technical Guidance Document for Site Investigation and Remediation.

2.1.3 Confirmatory Sampling

Final confirmatory sampling will be performed at the base and sidewalls of the final excavation depth.

Confirmatory samples will be collected from each of the areas of concern, and from any other areas of contamination that may be discovered during excavation. Confirmatory samples will be collected at a frequency of one sidewall sample per 30 linear feet of sidewall, and one bottom sample per 900 square feet of bottom area. All sampling will be conducted in accordance with NYSDEC DER-10 Technical Guidance Document for Site Investigation and Remediation. Confirmatory samples will be analyzed by York, a NYS ELAP-certified laboratory, for VOCs by EPA Method 8021, Semi-VOCs by EPA method 8270, MTBE (methyl tert-butyl ether), TBA (test-butal alcohol), TOC (Total Organic Carbon) and lead. Quality Assurance/Quality Control Measures to be followed are discussed in the Quality Assurance Project Plan (QAPP) in Appendix A.

2.1.4 Dewatering and Storm Water Control

Groundwater that enters the IRM excavation, and storm water runoff, is being collected and treated. During initial excavation stages a temporary holding pond may be constructed in the center of the excavation area to collect groundwater and runoff entering the excavation. This water will be routed to a city storm sewer along Hamilton Avenue. The pond water and discharge water will be examined visually and with PID on a daily basis for evidence of petroleum contamination and suspended sediments. In addition, weekly water samples will be collected and analyzed for benzene, toluene,

ethylbenzene, and xylenes (BTEX), in accordance with local discharge standards. The analysis results will be forwarded weekly to NYSDEC and the city.

Groundwater and storm water may also be routed to the Main Street storm sewer line, after being collected through a crushed stone layer that will be placed at the base of the excavation on the Main Street side of the site. This groundwater will migrate to a dry well located at the base of the Main Street foundation wall. The dry well will act as a secondary retention basin, and a pump will be lowered into the well within 18 inches of the bottom, and the collected water will be pumped into the Main Street storm sewer.

A groundwater sampling port will be installed in the discharge pipe, prior to the point of entry into the sewer, and samples will be taken weekly to monitor for BTEX, in accordance with local discharge standards. Samples will be collected into a 1-liter glass jar and inspected for clarity. If the samples are not visually clear, a turbidity meter will be used to record turbidity of the water. Results of the sampling program will be provided to NYSDEC on a monthly basis.

During significant rainfall events, it may be necessary to pump water from the site and discharge directly to the Main Street and Hamilton Street sewers. Clean hay bales and filter fabric will be placed over any catch basins to which discharge is sent to control sediment and flow velocities.

A storm water control inspection log sheet is attached as Figure 6.

2.2 PA AREA

2.2.1 Excavation Plan

Gasoline contaminated soil and groundwater exists at the site as a result of former leaking underground storage tanks (USTs) at the former White Plains Municipal Police and Department of Public Works building. The building was demolished and it has been reported that these USTs have been removed. Contamination is known to exist in the soil and ground water to the east of the N.Y. Power Authority (NYPA) garage, and beneath and possibly around the NYPA garage. Evidence of contamination below the garage includes an oily sheen in water collection troughs in the lowest level of the garage, and a tar-like material previously observed on the eastern wall of the parking garage level B-2.

Excavation in this area of the site, which includes AOC-4, will continue off-site toward the NYSPA parking garage as far as possible without affecting the integrity of the structure. An on-site professional soils engineer will determine the soil's structural integrity during the IRM excavation work.

The soldier pile beams that will be installed around the site perimeter will provide soil stability that is needed to excavate soils adjacent to the NYPA garage. Prior to the installation of the soldier pile beams along the eastern side of the NYPA garage, two (2) wells will be installed as part of the RI (see RI Work Plan), with sumps that are keyed into the top of bedrock. For the IRM, these two new wells are referred to as "sumps". The boreholes for each of these two sumps will be 24" in diameter, and the boreholes will be cased to full boring depth. When bedrock is encountered, a sump will be created by drilling approximately one foot into bedrock, and a 8-inch perforated pipe will be inserted into the cased borehole, and the annulus will then be backfilled with clean crushed stone. The casing will be withdrawn as the crushed stone is inserted from the bottom up. The perforated section (i.e. screen interval) for these two wells will extend from bedrock and up to 8 to 10 feet below ground surface.

Upon completion of these two sumps, the perforated pipes will be connected to a header pipe, and the wells will be pumped to dewater the area, as indicated in Section 2.2.2 below. As shown on Figure 4, the depth of the sump will capture contaminated groundwater and free product as dewatering takes place.

Once the level of groundwater is lowered to the point that excavation can proceed, the soldier beams and lagging will be installed to permit the excavation of contaminated soils.

To preclude the need to re-enter the PA area in the future, every effort will be made to remove impacted soil and excavate the area to future construction grades while the piles and retaining walls are in place. Soil will be excavated to the bottom of the east side of the garage to an elevation of approximately 185 feet above mean sea level (amsl). Figure 7 shows a cross section of the western portion of the site and the adjacent NYPA garage building, showing that the existing site grade to the east of the NYPA garage is about 210 feet amsl. The bottom of the existing garage slab is about 182 ft amsl. The base of the

NYPA enclosed watertight sump pit is at elevation 169.6. The soldier pile and lagging retaining wall will be installed to 162 amsl, approximately 12-feet to the west of the garage. All of the soil to the east of this soldier pile retaining wall will be excavated to el. 162 (several feet below bedrock). The soil between the soldier pile retaining wall and the garage will be excavated to el. 185, which is approximately 3-feet above the bottom of the garage slab.

Engineering plans, including cross sections, are included in Appendix E (see Sheet GS-3). The cross-sections show three phases of the project: the Phase 1 cross section shows existing conditions, the Phase 2 cross section shows the sheeted excavation adjacent to the NYPA garage, and the Phase 3 cross section shows the proposed completed structure.

All contaminated soil will be segregated for further testing and/or immediate off-site disposal. These operations will be in accordance with all applicable Federal and State regulations. This task should result in the removal of all soil and groundwater contamination in the original source UST area. Because all soil within the building footprint will be excavating down to rock it is expected that all contaminated soils will be removed from the PA area adjacent to the property line.

The two new sumps, installed as part of the RI, will be pumped as necessary, to control groundwater seepage into the excavation during the installation of the soldier pile retaining wall and the soil excavation to an elevation of 162 ft amsl. Upon completion of the project, the groundwater level in the area around the LC Main site should remain depressed since the two proposed buildings and proposed parking garage will have a perimeter wall drain and a sub-slab dewatering system.

Inside the garage, in the B-2 sump area, remediation will include pumping two new monitoring wells, installed during the RI (see RI Work Plan). Contaminated groundwater that is recovered from these two wells will be directed to a thin film separator (see Section 2.2.2 below) for treatment. It is expected that the remediation work inside the NYPA garage, in the B-2 sump area, will be completed before the excavation is completed east of the garage, in order to avoid groundwater contamination under the NYPA garage B-2 from being drawn back into the dewatered area east of the garage. However, if residual contamination still remains under the slab after the remediation work inside the garage is done, or if the inside work is not completed before the exterior

excavation and dewatering takes place, the exterior dewatering is expected to help remediate under the slab as well.

An evaluation will be made regarding the installation of a permanent dewatering trench system between the east side of the garage wall and the soldier pile retaining wall. This system may prove useful to supplement the proposed perimeter wall drain and sub-slab dewatering system for the new buildings and parking structure, and may reduce hydraulic pressure under the garage in the future after construction dewatering is complete. It is recommended that the RI data be considered in making this decision.

2.2.2 Dewatering

A 30-inch sump was previously installed adjacent to the NYPA garage to a depth of 20 feet, corresponding to the top of a relatively low-permeability layer of silt. This well was to provide dewatering of the area near the NYPA garage. After a few initial pump-outs, the well became dry, and has remained dry ever since. This finding substantiates that groundwater was probably perched on the top of the silt unit, and after it was dewatered the zone above the silt unit remains dry. Two deeper sumps will therefore be installed to bedrock to provide for dewatering of this area, as was noted in Section 2.2.1, and as shown on Figure 4.

Groundwater pumping will be conducted for dewatering purposes in order to facilitate construction. Contaminated groundwater will be pumped out using various appropriate methods during the IRM. The capacity to use various methods of treatment will provide flexibility to handle various quantities and qualities of groundwater. Vacuum trucks may be used for off-site hauling and disposal (at a permitted facility) of relatively small quantities of groundwater that are extracted from certain site work areas. Waste manifests will be maintained for all contaminated water removed for off-site disposal. Alternatively, in areas where it is expected that large quantities of contaminated groundwater will be continually extracted, groundwater will be treated on site, sampled, and discharged to the local storm sewer.

Depending on the contaminant levels, groundwater will either be pumped through a carbon filter system, or pumped through a thin film separator and then through carbon adsorption treatment prior to discharge to the storm sewer. To treat high levels of groundwater contamination evidenced by visible contamination, such as free product or

sheen, groundwater will be treated by carbon filters and then pass through a thin film separator. Heavily contaminated groundwater removed via the two sumps east of the garage will be treated in this manner. If needed, a secondary carbon filter system can be used to polish the water so that it meets local discharge standards relative to BTEX. A groundwater treatment shed near the NYPA garage can be built to house equipment, including a storage tank. The storage tank would provide a contingency for contaminated water to be run through the treatment system more than once, if necessary to meet treatment standards, or be hauled off site for disposal.

Contaminated groundwater from the inside of the garage, in the B-2 sump area, will either be pumped directly by a vac truck and hauled for disposal, or routed to a second thin film system for treatment and pumped into a small holding tank, depending on the volume of groundwater extracted and the apparent levels of contamination that are observed.

Groundwater that is extracted to dewater the site will be screened daily using a calibrated PID to measure VOCs in the headspace. Groundwater samples will be taken periodically and forwarded to York Analytical Laboratories for BETX analysis to determine whether is meets NYSDEC Surface Water Discharge Standards for BETX compounds.

2.3 Post-Construction Groundwater Monitoring

After the IRM and related RI are completed for the PA area of the site, a quarterly groundwater sampling program will be conducted. The duration of the groundwater sampling program will be determined based on the findings and conclusions of the IRM and RI programs. Groundwater samples will be collected from monitoring wells installed at the NYPA property as part of the RI (Figure 8). If additional areas of groundwater contamination are found outside of the known plume on the west side of the site, additional groundwater sampling will be performed as directed by the NYSDEC in order to delineate the extent of the contamination.

Prior to sampling, the depth to water will be measured in each well, from the top of the casing. In addition, the water column height above the bottom of the well will be measured to determine the elevation of groundwater and the volume of water in each well. Each well will be purged a minimum of three well volumes with a dedicated

disposable bailer, and will then be allowed sufficient time to recharge. The pH, temperature, conductivity and turbidity will be measured for each well. Groundwater samples will be collected for laboratory analysis using dedicated disposable bailers. Samples will be collected in sample jars provided by the laboratory and placed in ice-filled coolers for shipping or delivery under chain-of-custody protocols. Groundwater samples will be analyzed for VOCs, SVOCs, MTBE, dissolved metals (6010B/7000, and total petroleum hydrocarbons (TPH GRO & DRO Method 8015C). This sampling program will follow the Quality Assurance Project Plan (QAPP) in Appendix A.

Quarterly groundwater monitoring reports will be prepared and submitted to NYSDEC for review. The reports will show the groundwater flow and contaminant concentration patterns, drawn from data collected from the wells. After the fourth quarterly sampling event is completed, it will be determined whether further sampling or other activities are needed to characterize and/or remediate off site impacts.

SECTION 3 – IRM REPORT

At the conclusion of the IRM, a summary of IRM activities will be prepared that summarizes the IRM findings and results, including the confirmatory sample results and a figure showing the AOC excavations. The nature and extent of soil and groundwater contamination associated with each identified AOC will be described, and the results of the confirmatory sampling program will be discussed to substantiate that the IRM objectives were met. Details of the IRM and supporting documentation will be included with the RI Report. A summary of IRM activities will include the elements described below.

- A description of the source removal action, including the quantity of excavated soils, dimensions of the excavation, the verified location of each tank, the apparent extent of contamination, and photographic documentation of tank/soil removal activities;

- Identify the facility where the soils were disposed of, including the disposal bill of lading and manifests;

- A discussion of field observations during excavation activities;

- Summary tables of laboratory analytical results and a narrative discussion of the results; and

- Conclusions and recommendations regarding further action to be taken

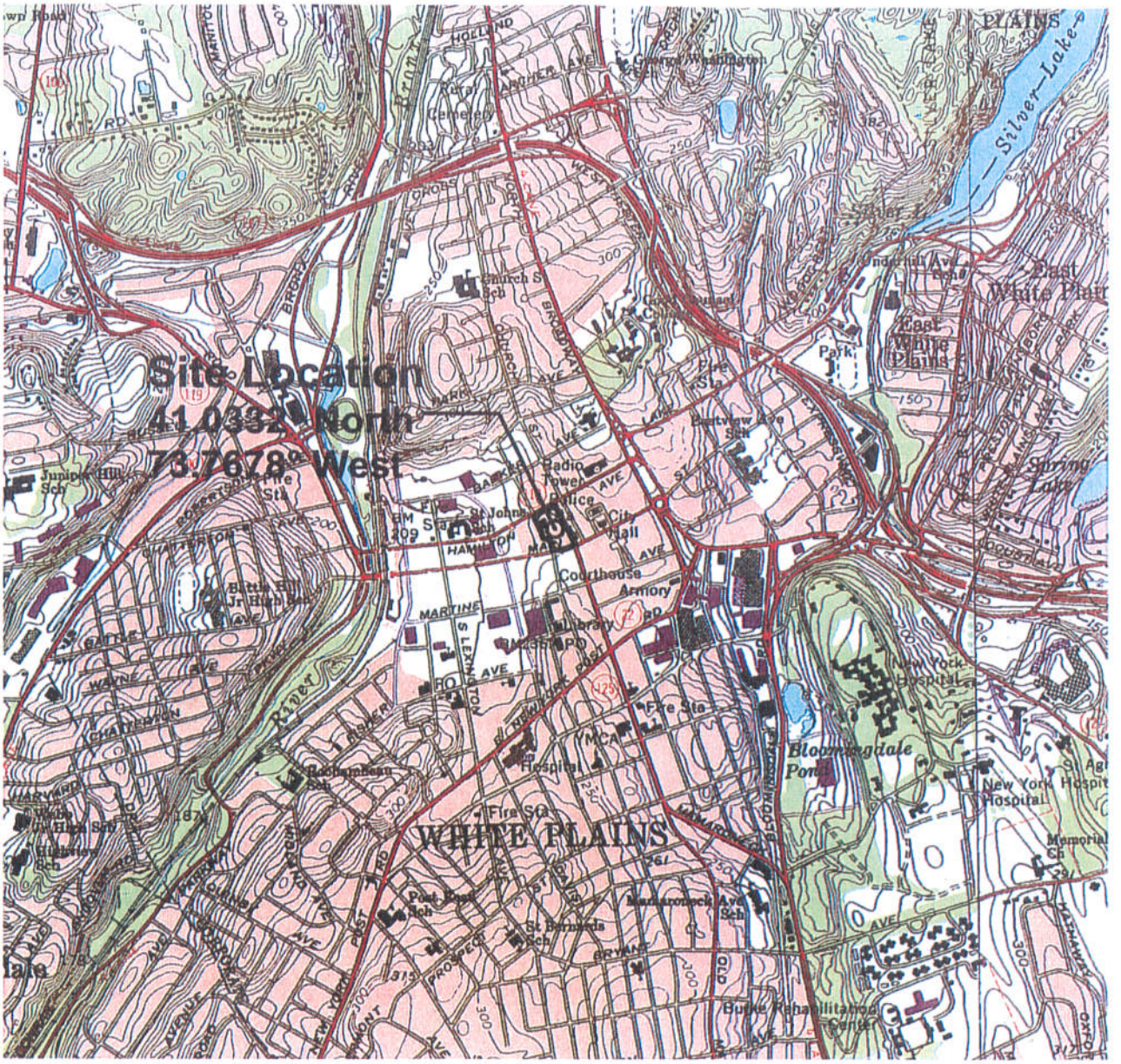
SECTION 4 – SCHEDULE

The schedule below presents a sequence of activities relative to this IRM, and the projected time line to complete them.

Number of Months

	1	2	3	4	5	6	7	8	9	10	11	12	13
IRM	■	■	■	■	■	■							
Mobilization	■												
Demobilization		■	■										
Excavation, Sampling				■	■	■							
RI							■	■	■	■	■	■	
Off-site soil/GW sampling							■	■					
Indoor air/sub slab vapor sampling									■	■			
Installation of on-site MWs											■	■	
Submit IRM Summary							■						
Submit RI Report (including IRM Summary)													■

FIGURES



QUADRANGLE LOCATION

SCALE in FEET

1,000 0 1,000 3,000 5,000

Contour Interval: 10 Feet

Map Taken From: USGS 7.5 Minute Series
Topographic Quadrangles White Plains (1967, Photorevised 1979) &
Glenville (1960, Photorevised 1971)
(www.nysgis.state.ny.us/quads/usgsdrg.htm)

S&W Redevelopment of North America, LLC

Syracuse, New York

DATE:12/2005 JOB No.:N5023

Interim Remedial Measures (IRM) Work Plan
221 Main St. Site, City of White Plains
Westchester County, New York

Figure 1
Site Location

X-REF: NAMES?
2005/Dec/Syr/jlk
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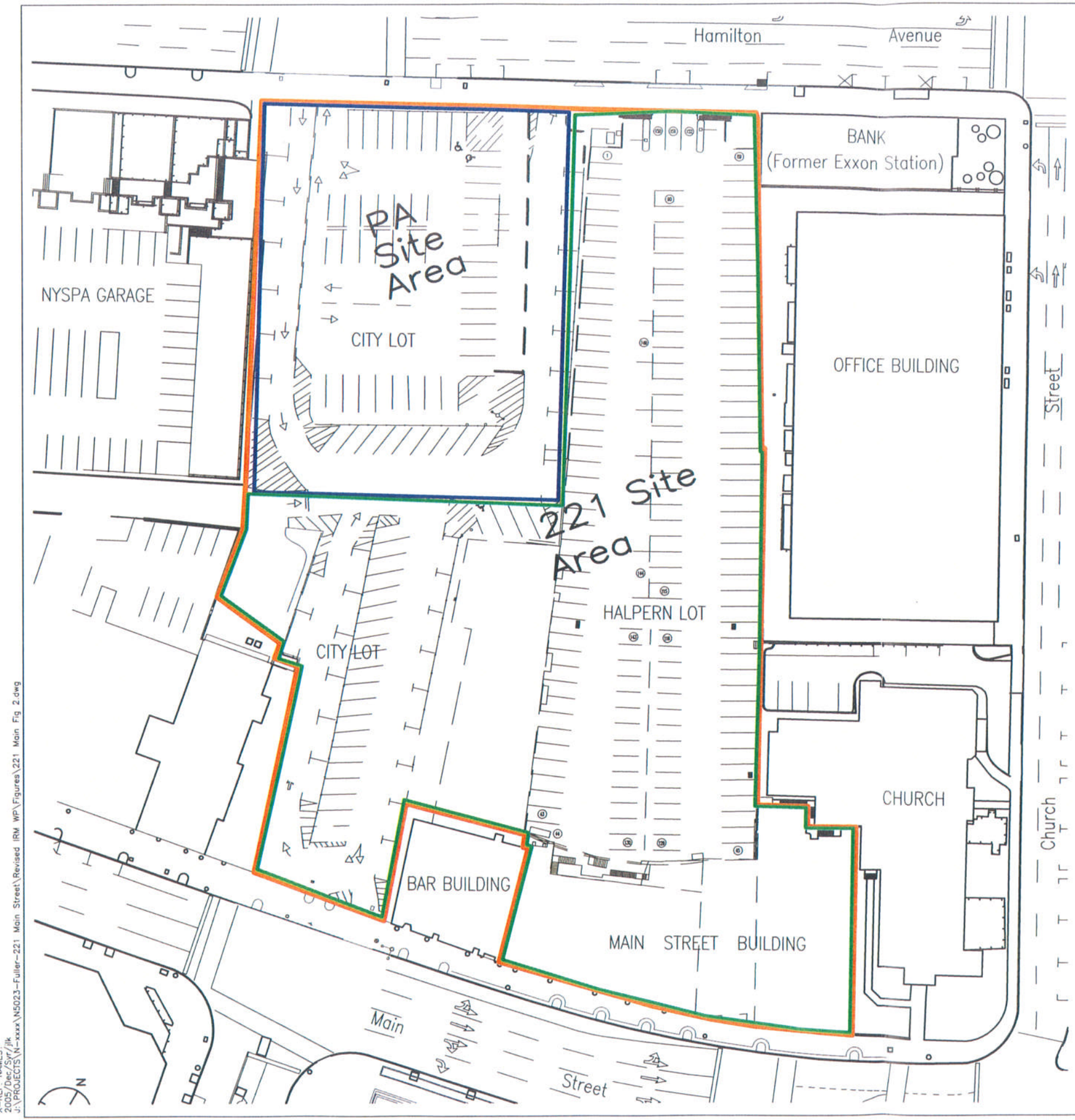

Site boundary (Location Approximate)

PA area boundary (Location Approximate)

221 area boundary (Location Approximate)

Note:
The excavation area includes everything within the site boundary

SCALE in FEET

30 0 60 120

Figure based on Survey by J.W. Delano Surveying as provided by SESI Consulting Engineers.

S&W Redevelopment of North America, LLC

Syracuse, New York

DATE:12/2005 JOB No: N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – 2
Site Plan

X-REF: NAMES?
2005/Dec/Syr/jlk
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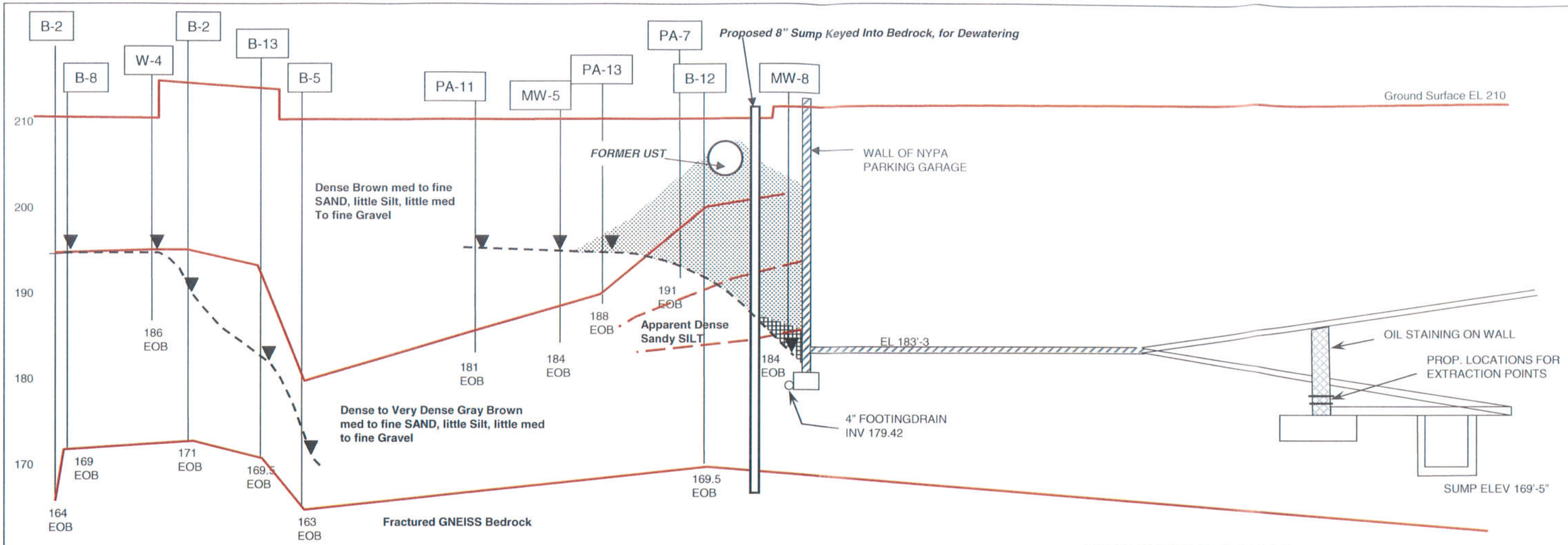
S&W Redevelopment
of North America, LLC
Syracuse, New York

DEC 05 N5023

INTERIM REMEDIAL MEASURE (IRM) WORK PLAN
221 MAIN STREET
CITY OF WHITE PLAINS
WESTCHESTER COUNTY, NEW YORK

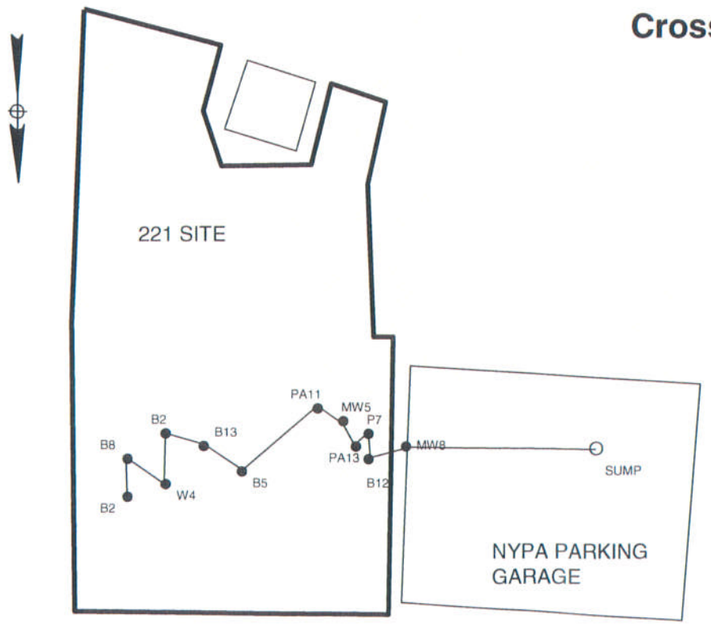
FIGURE 3
PROPOSED REDEVELOPMENT CONCEPT



PA AREA OF SITE

NYPA PARKING GARAGE

Cross Section Transect



General stratigraphic sequence of site, in cross section. Figure is Based on data provided by JM Associates, and SESI Engineering.

The break in the transect between borings B-5 and PA-11 forces the Disconnect in the depicted water table.

Figure shows petroleum impacted soil near former UST as

Free product represented by

Boring I.D.s indicated by Text Boxes: B-12

EOB = End of Boring Elevation

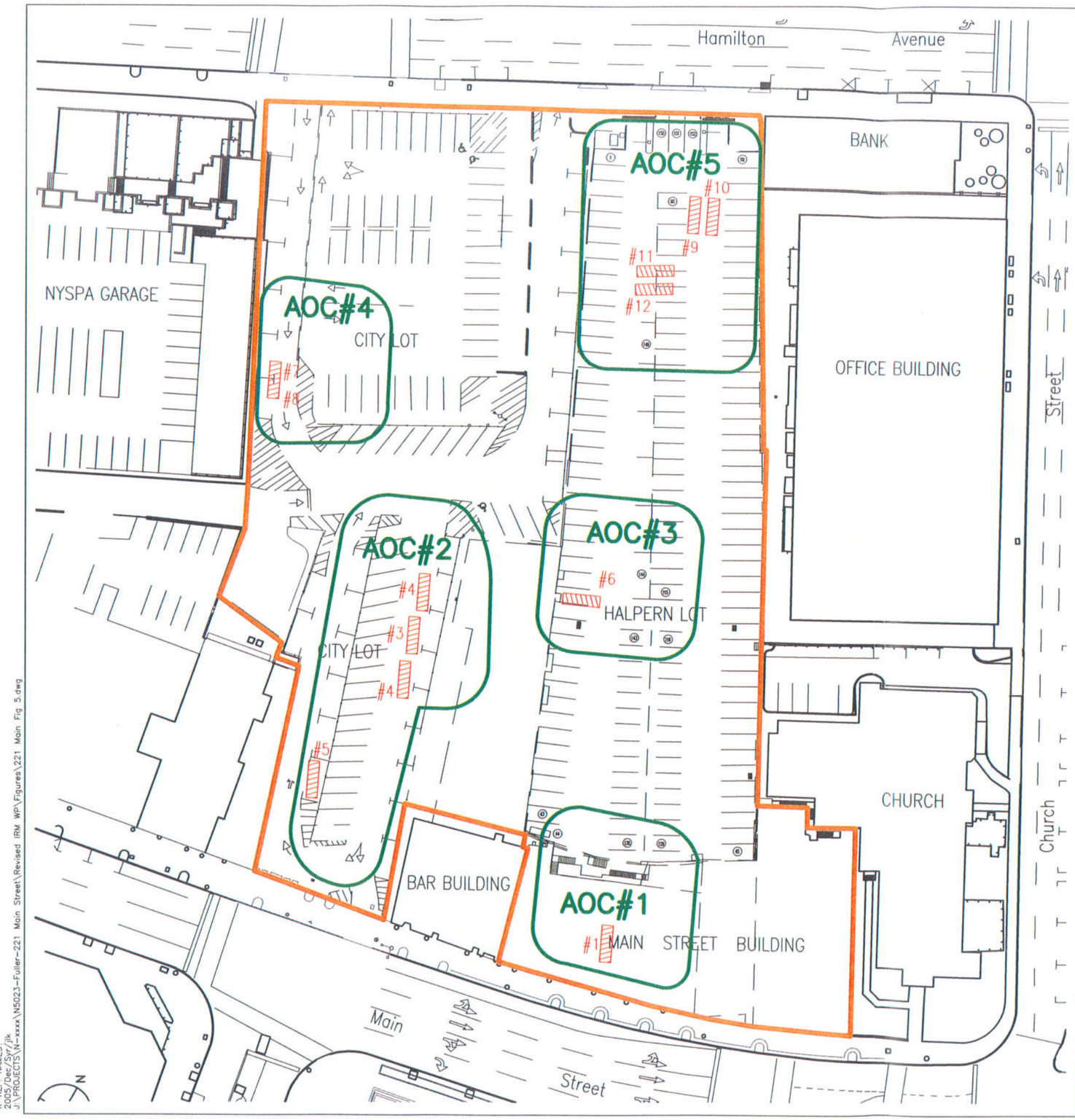
Water Table

S&W Redevelopment
of North America, LLC
Syracuse, New York

DEC 05 N5023

INTERIM REMEDIAL MEASURE (IRM) WORK PLAN
221 MAIN STREET
CITY OF WHITE PLAINS
WESTCHESTER COUNTY, NEW YORK

FIGURE 4
GENERAL STRATIGRAPHIC SEQUENCE



Site boundary (Location Approximate)

Former UST Location (Approximate, not to scale)

Areas of Concern (AOC) (Locations Approximate)

AOC #1

Tank #1 - 550 Gal. UST in concrete vault.

AOC #2

Tank #2 - Leaking 5,000 Gal. UST in concrete vault.
Tank #3 - 5,000 Gal. UST
Tank #4 - 5,000 Gal. UST in concrete vault.
Tank #5 - 750 Gal. UST.

AOC #3

Tank #6 - 4,000 Gal. UST (#4 Oil) in concrete vault.

AOC #4

Tank #7 - 10,000 Gal. UST (Gasoline).
Tank #8 - Heating Oil UST.

AOC #5

Tank #9 - 275 Gal. UST.
Tank #10 - 3' x 3' UST.
Tank #11 - 1,000 Gal. UST.
Tank #12 - 1,000 Gal. UST.

Note:
Excavation of soils will extend beyond AOCs, and up to the site boundary.

SCALE in FEET

30 0 60 120

Figure based on Survey by J.W. Delano Surveying as provided by SESI Consulting Engineers.

S&W Redevelopment of North America, LLC

Syracuse, New York

DATE:12/2005 JOB No: N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – 5
Areas of Concern (AOCs)

X-REF: NAMES?
2005/Dec/Syr/jlk
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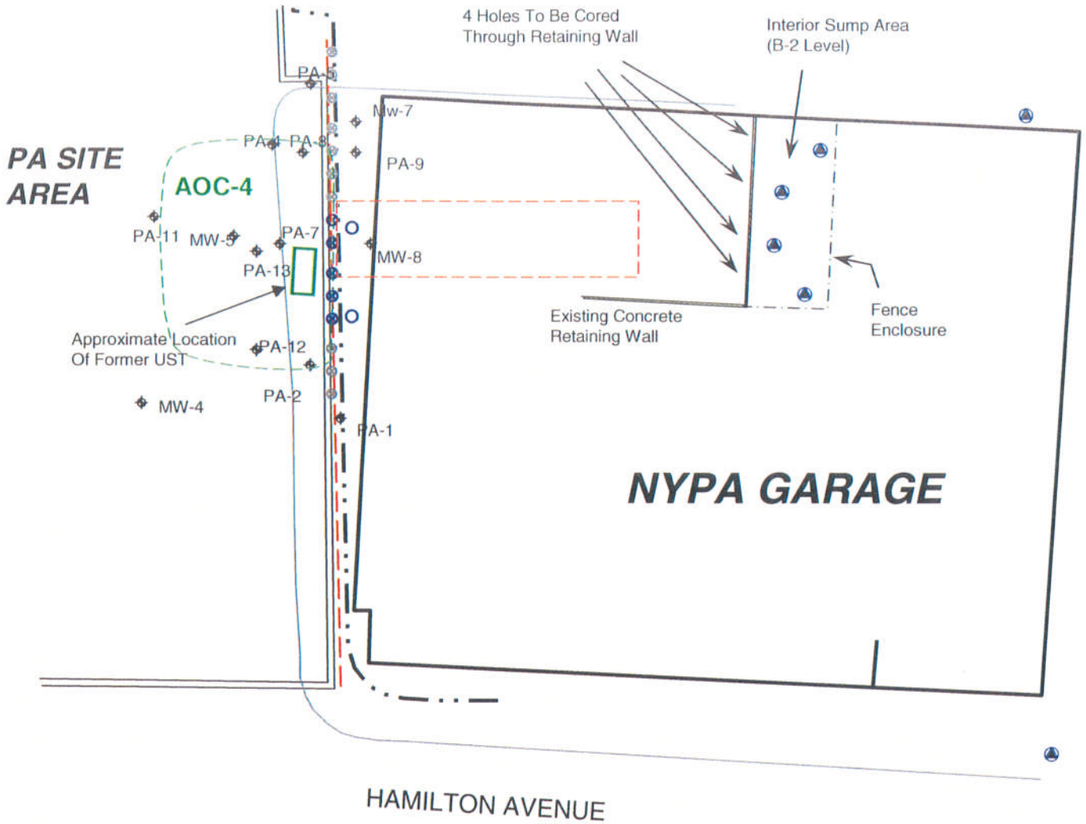


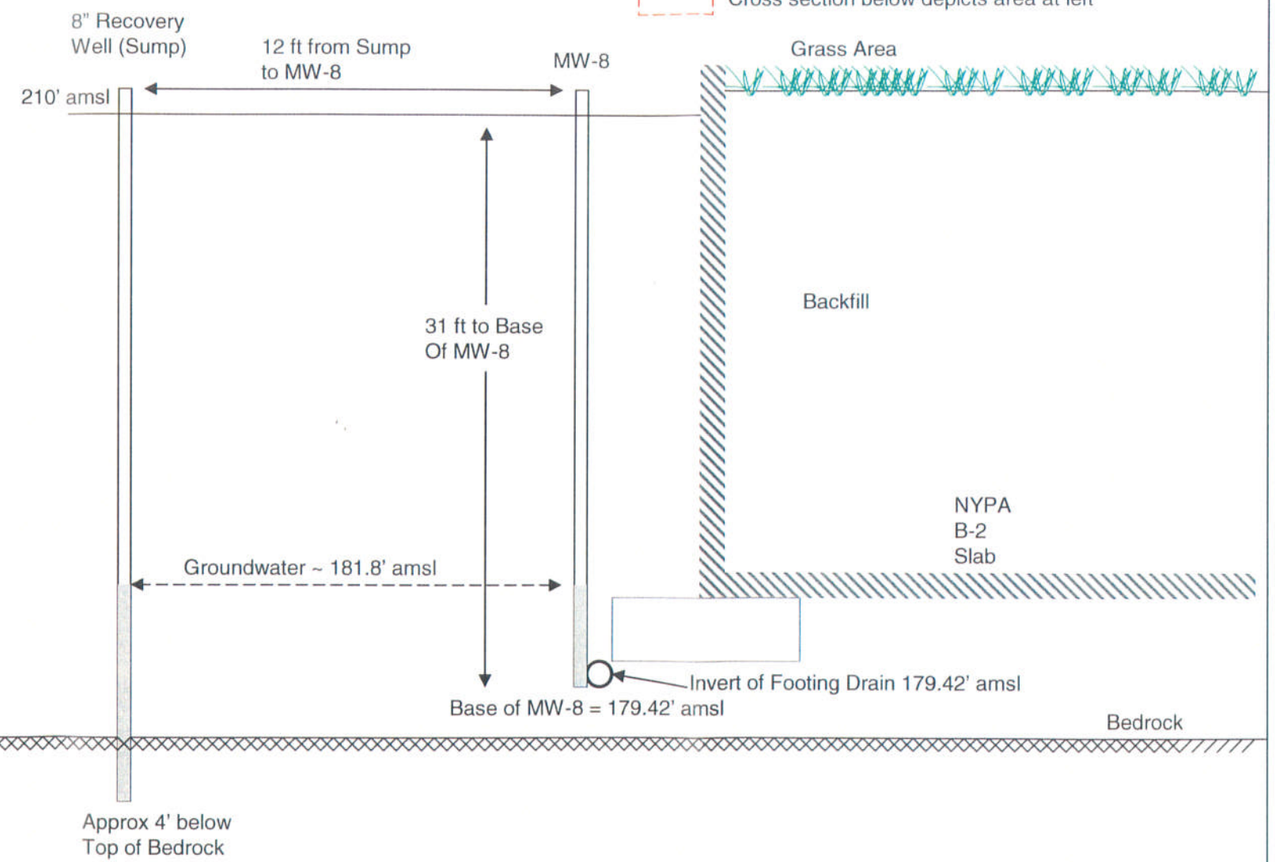
Proposed RI Monitoring Well
(Locations are approximate)

Proposed RI Perimeter (Soldier Pile)
Observation Boring

Proposed RI/IRM Observation/Recovery Well

Previous Boring or Monitoring Well

Cross section below depicts area at left



S&W Redevelopment
of North America, LLC
Syracuse, New York

DEC 05 N5023

INTERIM REMEDIAL MEASURE (IRM) WORK PLAN
221 MAIN STREET
CITY OF WHITE PLAINS
WESTCHESTER COUNTY, NEW YORK

FIGURE 7
NYPA CROSS SECTION

IRM WORK PLAN
APPENDIX A

QUALITY ASSURANCE PROJECT PLAN

INTERIM REMEDIAL MEASURE (IRM)
QUALITY ASSURANCE
PROJECT PLAN

221 MAIN STREET SITE

221 Main Street
White Plains, NY 10601

Rev January 2006

Prepared for:

LC Main, LLC
115 Stevens Ave
Valhalla, NY 10595

Prepared By:

JM Associates, Inc.
225 Railroad Ave
Bedford Hills, NY 10507

TABLE OF CONTENTS

1.0 INTRODUCTION

JM Associates has prepared a Quality Assurance Project Plan (QAPP) for the Interim Remedial Measure (IRM) that will be conducted at the 221 Main Street Site located at 221 Main Street, White Plains, New York ("the Site") under the New York State Brownfield Cleanup Program (BCP). The QAPP presents the project description, project organization, data quality objectives, and data management procedures for implementing investigation activities at the site. The QAPP also identifies the specific quality control (QC) checks and quality assurance (QA) auditing processes to be undertaken during field operations at the site.

1.1 Project Description and Objective

Site background information is discussed in the IRM Work Plan. The project consists of remediating the site for the development of the site into a hotel/condominium/retail space complex interconnected to a parking structure. A new street, known as Court Street Extension, will also be constructed as part of the project. A separate Remedial Investigation (RI) has also been undertaken at the site. The objective of the RI is to determine if soil gas is migrating from the site and affecting adjacent buildings and to determine the extent of groundwater contamination. The objective of the IRM activities is to excavate contaminated soils and remaining underground storage tanks (USTs) at the site in order to remove contaminated soil. Once the extent of groundwater contamination is determined and the IRM is completed, remedial alternatives can be evaluated, if necessary. The RI and the IRM Work Plans have been prepared as two independent documents.

1.2 Site Description

The Site is located at 221 Main Street in the City of White Plains, New York and occupies the majority of one City block. The site consists of three main areas. The first area is the building along Main St (203-227 Main St) and the Annex building. The second area of the site is this parking area located behind (north of) the Main St building. This parking lot is known as the Halpern Lot and is privately owned and operated. The third area is the City Lot, which is a municipal parking lot located directly west of the Halpern Lot. The City Lot extends south to Main Street, just west of the Annex.

1.3 Data Quality Objectives

The data collected during the RI and IRM will be utilized to provide information to satisfy the following Data Quality Objectives (DQO):

- Determine the extent of soil contamination at the site and excavate contaminated areas to levels that are below NYSDEC Recommended Soil Cleanup Objectives (RSCO) as defined by NYSDEC Technical and Administrative Guidance Memorandum #4046 (TAGM 4046).

- Determine if contamination is migrating from the site in the form of soil vapor and affecting nearby buildings.

- Determine the extent of groundwater contamination based on NYSDEC Groundwater Quality Standards as per New York State Codes, Rules and Regulations (NYCRR) Part 703.

DQOs are specified based on the intent of the data use and are defined with respect to the type, number and location of samples that will be collected, and the quality assurance levels associated with the respective analysis. Table 1 summarized specific samples to be collected as part of the RI and the IRM.

2.0 PROJECT ORGANIZATION

This section describes the project organization and the project team that has been assigned to complete the RI and IRM. The responsibilities of each of the project positions are outlined below. Multiple project duties may be assigned to one team member.

2.1 Environmental Project Manager (Project Manager)

The Environmental Project Manager (PM) is responsible for the overall technical and logistical aspects of the project and for implementation of separate RI and the IRM Work Plan. The PM is responsible for assuring that project staff completes their objectives in accordance with the work plan and the project schedule. In addition, the PM is responsible for reviewing and assessing the performance of subcontractors. The PM serves as the main point of contact for the Volunteer's Project Manager and the project team. The PM is responsible for maintaining project files and for project budget and schedule tracking. The PM is also responsible for contact with government agencies. The PM for this project is Mr. John Manfredi, of JM Associates, Inc.

2.2 Project Quality Assurance Officer

The Quality Assurance Officer (QAO) is responsible for conducting periodic field and sampling audits, interfacing with the analytical laboratory to make requests and resolve problems, interfacing with the data validator and for reviewing or developing a project specific data usability summary report (DUSR). The QAO will be responsible for ongoing surveillance of project activities, for ensuring conformance to this Quality Assurance Project Plan (QAPP), and for evaluating the effectiveness of its requirements. The QAO has access to any personnel or subcontractors, as necessary, to resolve technical problems and take corrective action as appropriate and has the authority to recommend that work be stopped when that work appears to jeopardize quality. The QAO will be available to respond to immediate QA/QC problems. The QAO reports directly to the PM. The QAO for this project is John Manfredi of JM Associates.

2.3 Health and Safety Officer

The Health and Safety Officer (HSO) is responsible for implementation of site-specific health and safety requirements and emergency contingency response as presented in the Health and Safety Plan (HASP). They are responsible for hazard communication information, oversight of training employees in safe operating procedures and advising the PM on any matters which involve the health and safety of personnel completing the investigation field work. The HSO for this project is John McCarthy of ProSafety.

2.4 Subcontractors

Several subcontractors will be used throughout the course of the RI and IRM. The subcontractors anticipated to be used are as follows:

Soil Boring Advancement and Well Installation:	General Borings, CT
Site Surveying:	York Laboratory, CT
Laboratory Analysis:	
Data Usability Review:	Carole A. Corrado-Tomlins, NY.

2.5 Volunteer's Project Manager

The Volunteer's Project Manager will interface directly with the PM to ensure compliance with the Work Plan and overall regulatory compliance. They will inform the PM of the schedule for the overall development project and coordinate with the PM as necessary. The Volunteer's Project Manager is Jim Bruno of LC Main, LLC. The Volunteer's Project Manager is ultimately responsible for compliance with the Work Plan and timely completion of work and compliance with submittal requirements.

2.6 NYSDEC Project Manager

The NYSDEC Project Manager will interface directly with the Volunteer's Project Manager and the PM. The NYSDEC Project Manager is the central contact for all regulatory agencies involved in the project, including the New York State Department of Health (NYSDOH). The NYSDEC's Project Manager will monitor the project and ensure that it is being implemented to the NYSDEC's satisfaction. All submittals and correspondence from the EPM or the Volunteer's Project Manager will be directed to the NYSDEC Project Manager.

3.0 QUALITY ASSURANCE OBJECTIVES

The QA objective is to develop and implement procedures for sampling and analytical testing that will provide data of known quality that is consistent with the intended use of the information. This section identifies the objectives by describing the use of the data, specifying the applicable field checks, and defining the acceptable criteria for data quality.

3.1 Data Requirements

The laboratory quantitation limits to be used are in accordance with NYSDEC Analytical Services Protocols (ASP). A list of the compounds being analyzed for and their respective quantitation limits is provided in Table 2. In certain instances, the laboratory cannot achieve the quantitation limits. Often this occurs because there are high concentrations of the target analyte, or an interfering compound are present, necessitating sample dilution, or often, resulting in an interference that requires an elevated quantitation limit. The laboratory indicates these instances with footnotes.

3.2 Level of Quality Control

The field sampling team will use different types of QA/QC samples to ensure and document the integrity of the sampling procedures and laboratory handling procedures. A summary of quality assurance mechanisms is provided in Table 3. The measured data will also be evaluated through a Data Usability Summary Report (DUSR). In order to achieve the project DQOs, specific data quality requirements such as Precision, Accuracy, Representativeness, Completeness, Comparability and Sensitivity are required. These requirements are discussed below.

3.2.1 Precision

Precision is defined as the measure of agreement among repeated measurements of the same property under identical or substantially similar conditions. Sampling precision will be measured by the collection of duplicate samples taken during the sampling to demonstrate reproducible analytical data. Precision is reported as the relative percent difference (RPD) between two samples. The RPD is calculated as follows:

$$\text{RPD} = \frac{(x_1 - x_2)}{\left[\frac{(x_1 + x_2)}{2}\right]} \times 100$$

where:

RPD = relative percent difference
x_1 = first sample value
x_2 = second sample value (duplicate)

Laboratory duplicates and field duplicates will be used to evaluate precision. The laboratory duplicate RPDs provide an indication of analytical precision while field duplicate RPDs provide and indication of overall field precision. Frequency limits for laboratory precision are included in the associated analytical methods. Field duplicate samples will be collected at a frequency of one per twenty samples collected per matrix. Laboratory precision will be evaluated using Matrix Spike and Matrix Spike Duplicates.

3.2.2 Accuracy

Accuracy is defined as a measure of bias or of the overall agreement of a measurement to a known value. The difference is usually expressed as either a percent recovery or as a percent bias. Accuracy includes both precision and recovery and is expressed as percent recovery (% REC). The Matrix Spike (MS) sample is used to determine the percent recovery (% REC) which is calculated as follows:

$$\%\text{REC} = \frac{(SSR - SR)}{SA} \times 100$$

where:

SSR = spiked sample results
SR = sample results
SA = amount of spike added

The quality control areas that generate accuracy information include system monitoring (surrogate compound) recovery, matrix spike and matrix spike duplicates and matrix spike blanks and laboratory control samples.

Sampling accuracy is assessed by the use of a field blank. The field blank will help in quantifying the possibility of the introduction of a contaminant by either problems in the collection or handling of the samples. One field blank will be collected per sampling event.

3.2.3 Representativeness

Representativeness is the degree to which data accurately and precisely represents selected characteristics of the environmental area from which it was obtained. The representativeness of samples is assured by adherence to sampling procedures described both the RI and the separate IRM Work Plan. The objectives for representativeness are to minimize the effects of bias from improper sampling and handling. Equipment blanks and rinsate blanks will be collected as a measure of representativeness.

3.2.4 Completeness

Completeness is a measure of the amount of valid data needed to be obtained from a measurement system as compared to the amount of data expected from the measurement

system. Completeness is defined as the percentage of all results that are not affected by failing QC qualifiers, and should be between 70 and 100% of all analyses performed. Sufficient duplicates and backup samples will be collected to assure a high return of valid data for the samples collected.

The objective of completeness in laboratory reporting is to provide a thorough data support package. The laboratory data package provides documentation of sample analysis and results in the form of summaries, QC data, and raw analytical data. The laboratory will be required to submit data packages that follow NYSDEC ASP reporting format.

3.2.5 Comparability

Comparability is a qualitative term that expresses the measure of confidence that one data set can be compared to another data set from a difference phase or program. The methodologies used for the collection and analysis of samples as documented in the QAPP are expected to provide comparable data. Standardized methods of sample collection, holding times and preservation will be used as per NYSDEC ASP protocols.

3.2.6 Sensitivity

The sensitivity objectives for this plan require that data generated by the analytical laboratory achieve quantitation levels low enough to meet the required detection limits specified by NYSDEC ASP and to meet all site-specific standards, criteria and guidance values (SGCs) established for this project. All the appropriate quantitation limits and SGCs are presented in Table 2.

3.3 Quality Control Samples

Quality Control samples are collected to meet the QC objective of providing data of known and acceptable quality. QC check samples to be analyzed and evaluated include field blank samples, spike samples and duplicate samples. QC samples are summarized in Table 3.

4.0 SAMPLING PROCEDURES

Samples will be collected in accordance with the appropriate sampling method. Samples will be collected in the appropriate containers and in accordance with the appropriate preservation, storage and holding times as outlined in Table 4.

4.1 Sample Collection

When collecting samples, a new jar will be used for each sample. Disposable sampling equipment will be used for each sample or equipment will be decontaminated between sampling locations. Each sample will be collected in the appropriate sample jar as provided by the laboratory. Containers will be inspected prior to use to ensure their integrity. When using instruments to measure field parameters, the meter will be calibrated each day prior to use. Proper personal protective equipment (PPE) will be used for sampling. Gloves used for sample collection will be disposable and a new pair used for collection of each sample.

4.2 Sample Custody

Proper chain-of-custody procedures will be followed. Custody procedures involve proper sample identification, chain-of-custody forms, proper sample storage, and proper packaging and shipping procedures.

Sample containers will be labeled with the following information:

1. Project name and address
2. Sample identification (sample number and ID)
3. Name of person collecting sample
4. Date and time of collection
5. Preservation, if applicable
6. Type of sample and analyses to be performed
7. Initials of sampler, or signature

At the time of sampling, the person sampling will properly fill out the chain-of-custody form. Once sampling is complete, the sampler will properly package the samples for shipping, or deliver the samples directly to the laboratory. In either case, all samples will be received by the laboratory within 24 hours of sample collection. Laboratory personnel will then assume custody of the samples.

Once the laboratory assumes custody of the samples, they will be checked for label identification and accuracy of chain-of-custody forms. The laboratory is NYSDOH-certified and will follow proper sample custody procedures.

4.3 Equipment Decontamination

Before sampling activities begin, a decontamination area will be established, if necessary. If dedicated, disposable sampling equipment is used, a decontamination area will not be necessary. If decontamination is necessary, sampling equipment will be decontaminated by a wash and scrub with low phosphate detergent, a tap water rinse followed by a methanol rinse, a thorough rinse with de-ionized water, and then allowed to air dry. Disposable equipment, including PPE, will be collected in plastic bags and placed in a designated storage area in preparation for proper disposal.

4.4 Documentation

Field personnel will document all necessary information in field notebooks. The date and time of field activities will be clearly marked and observations as to the activities performed that day will be made. Each entry will be signed and dated by the person making the entry. Information to be documented at the time of sampling includes:

- Name of project and site address
- Date and time
- Weather
- Name and contact information of sampler
- Names of other personnel on site
- Sample ID and sample matrix
- Sample location (mark on site map with proper sample ID)
- Type of sample (composite, grab, duplicate, blank)
- Depth of sample
- Field observations
- Field measurements
- Purge information (for groundwater sampling)
- Calibration of field instrumentation
- Method of sample shipping or delivery
- Circumstances or observations pertinent to the sampling

4.5 Calibration

Calibration procedures performed by the laboratory will be in accordance with the particular sampling method being performed and in accordance with standard laboratory procedures. Field calibration will be performed each day in the field in accordance with the manufacturer's instructions regarding the specific field instrument being used. Calibration information will be documented in the field notebook at the time of calibration. Information to be documented includes the calibrator's name, the standards used for calibration and the source of the standard (manufacturer's instructions), the date and time of calibration, the name of the instrument and model number, and any corrective actions taken.

5.0 ANALYTICAL PROCEDURES

Analytical procedures to be used are from the United States Environmental Protection Agency's SW-846 Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods. The Specific methods to be used are outlined in Table 1.

6.0 DATA REDUCTION, REVIEW AND REPORTING

The process of data reduction, review and reporting ensures that the final data accurately reflects site conditions. Data reduction performed by the laboratory will adhere to ASP data reduction procedures. The laboratory to be used for this project is York Laboratories of Stratford, CT. The qualifications of York Laboratory are attached as Appendix A. All data is reviewed prior to use in the reports. Field data is reviewed to ensure accuracy of sampling procedures including sample collection, instrument calibration, and proper chain-of-custody procedures. Sampling is also reviewed to ensure that proper QC samples were collected at the proper frequency. Laboratory data is reviewed by the lab to ensure compliance with sampling protocol including proper holding times, sample preservation, proper detection limits, etc.

Reporting in the field is completed in bound field notebooks. Laboratory reports will conform to NYSDEC ASP Category A data deliverable packages. A Data Usability Summary Report (DUSR) will be prepared in accordance with NYSDEC "Guidance for Developing a Data Usability Summary Report". The DUSR will be prepared by a qualified third party and will be submitted with the final report. The DUSR will determine whether the final results can be used as reported, with limitations or cannot be used at all.

The DUSR will be prepared by Carole A. Corrado-Tomlins of The Data Quality Indicator & Associates, Inc. Her resume is attached as Appendix B.

7.2.4 Temperature Blank

Each cooler will contain a temperature blank, which the laboratory will use to confirm that the samples are chilled to 4°C. Temperature blanks will be included with each cooler of samples chipped or delivered to the laboratory.

7.2.5 Duplicates

Blind duplicates are grab samples collected to monitor overall precision. One duplicate will be collected and submitted per twenty (20) samples collected, or one (1) sample per sampling event, whichever is greater.

7.3 Data Assessment Procedures

The field and laboratory data will be assessed for precision, accuracy, representativeness, comparability and completeness using the field and lab QC samples.

8.0 PERFORMANCE AND SYSTEM AUDITS

Performance and system audits will be performed on a periodic basis to ensure that the field activities are implemented in accordance with the approved RI/IRM Work Plan and in accordance with good work practices.

Internal laboratory audits are carried out periodically. Results of internal audits will be reviewed by the QAO. The laboratory is also audited as part of the various certification programs in which it participates. The laboratory will maintain proper certifications for all sub-categories of solid and hazardous waste.

Field audits are conducted periodically by the PM. The PM monitors subcontractors and field personnel to ensure appropriate procedures are being utilized.

9.0 PREVENTATIVE MAINTENANCE

J.M. Associates personnel will check all field equipment to make sure that it is in good working order prior to field sampling activities (cleaned, charged, calibrated correctly). The calibration and documentation procedures discussed in previous sections will also be followed. The maintenance of equipment is tracked and routine maintenance procedures are followed. J.M. Associates will ensure that subcontractors inspect their equipment and ensure it is in proper working order.

10.0 CORRECTIVE ACTION

The QA/QC program enables problems with the data or field procedures to be identified, controlled, and corrected. Any person identifying an unacceptable condition will bring the problem to the attention of the QAO and PM. The occurrence will be documented in the field log as well as any corrective action taken.

Deviations or problems identified by the laboratory will be documented in the data package. Corrective action may be taken and will also be documented. Corrective actions may include re-sampling, reanalysis of samples, or modifying the project procedures.

11.0 QA/QC REPORTS

Communication is an important aspect of a QA/QC Program and is integral to implementation of this QAPP. Reports will be prepared as needed by the QAO for submittal to the PM and the Volunteer's Project Manager. These reports will include a periodic assessment of the precision, accuracy and completeness of the sampling, results of audits, corrective actions taken, QA/QC problems noted and resolutions to problems encountered and recommendations to outstanding issues.

Laboratory noncompliance reports will be filed with the laboratory project manager. The reports will include accuracy and precision data, quality problems and the status of corrective actions implemented. QA/QC problems encountered will be discussed between laboratory management and QA personnel and appropriate corrective action measures will be implemented.

Table 1
Data Quality Objectives
Samples to be Collected

Media	Location	Type	Frequency	Analysis	Analytical Method	Other sampling	Objective
Soil	Sidewall of excavation	Grab	1 per 30 linear feet	VOCs	EPA 8021	PID, visual inspection	To confirm excavation of petroleum contaminated soil
				SVOCs	EPA 8270		
	Bottom of excavation	Grab	1 per 900 square feet	VOCs	EPA 8021	PID, visual inspection	To confirm excavation of petroleum contaminated soil
				SVOCs	EPA 8270		
Soil Gas	Adjacent buildings	Continuous	5 samples	VOCs	EPA 8021		To determine if contamination has migrated off-site
Groundwater	Throughout Site	Grab		VOCs	EPA 8021		To determine extent of groundwater contamination
				SVOCs	EPA 8270		

Table 2
Quantitation Limits and SCGs

Parameter	Soil Quantitation Limit ppb	Groundwater Quantitation Limit ppb	SCGs Soil (ppm) / Groundwater (ppb)
1,2,4-Trimethylbenzene	5	1	10 / 5
1,3,5-Trimethylbenzene	5	1	3.3 / 5
Benzene	5	1	0.06 / 1
Ethylbenzene	5	1	5.5 / 5
Isopropylbenzene	5	1	2.3 / 5
Naphthalene	5	1	13 / 10
n-Butylbenzene	5	1	10 / 5
n-Propylbenzene	5	1	3.7 / 5
o-Xylene	10	2	2.3 / 5
p & m Xylenes	10	2	2.3 / 5
p-Isopropyltoluene	5	1	10 / 5
sec-Butylbenzene	5	1	10 / 5
tert-Butylbenzene	5	1	10 / 5
Toluene	5	1	1.2 / 5
Total Xylenes	10	2	2.3 / 5
Acenapthene	330	1	50 / 20
Anthracene	330	1	50 / 50
Benzo(a)anthracene	330	1	0.224 / 0.002
Benzo(a)pyrene	330	1	0.061 / ND
Benzo(b)fluoranthene	330	1	0.220 / 0.002
Benzo(g,h,i)perylene	330	1	50 / --
Benzo(k)fluoranthrene	330	1	0.220 / 0.002
Chrysene	330	1	0.4 / 0.002
Dibenz(a,h)anthracene	330	1	0.0143 / --

Fluoranthene	330	1	50 / 50
Fluorene	330	1	50 / 50
Indeno(1,2,3-cd)pyrene	330	1	3.2 / 0.002
Naphthalene	330	1	13 / 10
Phenanthrene	330	1	50 / 50
Pyrene	330	1	50 / 50

*SCGs for soil are in accordance with NYSDEC TAGM 4046 and for groundwater are in accordance with NYCRR Part 703

Table 3
Quality Control Samples

Media	Field QC Sample				Laboratory QC Samples		
	Field Duplicate	Field Blank	Trip Blank	Rinsate Blank	Reagent Blank	Matrix Spike	Matrix Spike Duplicate
Soil	5% (1 per 20 samples)	5% (1 per 20 samples)	1/day or shipment (whichever greater)	As necessary	1 per analysis batch	1 per analysis batch	5% or 1 per analysis batch
Groundwater	5% (1 per 20 samples)	5% (1 per 20 samples)	1/day or shipment (whichever greater)	As necessary	1 per analysis batch	1 per analysis batch	5% or 1 per analysis batch

Table 4
Sample Preservation, Storage and Holding Times

Media	Parameter	Container	Preservative	Maximum Holding Time
Soil	VOCs	Glass, Teflon lined septum cap	4 deg C	7 days
	SVOCs	4 oz glass jar with Teflon lined cap	4 deg C	10 days after VTSR to extraction; 40 days for analysis
Soil Gas	VOCs	Tedlar Bag or SUMMA Canister	--	24 hours
Groundwater	VOCs	(2) 40 ml vials with teflon lined septum cap	4 deg C	7 days
	SVOCs	1-liter glass amber jar with Teflon lined cap	4 deg C	5 days after VTSR to extraction; 40 days for analysis

APPENDIX A

York Laboratory Qualifications

YORK
ANALYTICAL LABORATORIES, INC.

YORK
ANALYTICAL LABORATORIES, INC.

Statement of Qualifications

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

I. Introduction

I. Introduction

York's charter is to provide superior service for a wide range of analysis needs to consulting engineers, industry and government, in support of regulated activities under the applicable environmental regulations

York Analytical Laboratories, Inc. is a full service independent analytical laboratory providing analyses of water, wastewater, soil, solid waste, hazardous waste and air in support of environmental needs.

A. Background of the Firm

York Analytical Laboratories, Inc. (YORK), is an independent, privately owned analytical laboratory. Our charter is to provide superior service for a wide range of analysis needs in support of regulated activities under the applicable environmental regulations including Underground Storage Tank programs, Resource Conservation and Recovery Act, The Clean Water Act, CERCLA/SARA, TSCA, Clean Air Act, and specific Land Transfer requirements (ECRA, Super Lien, etc.). As one of the pioneers in the air pollution measurement field, our former sister company, York Services Corporation (YSC) was one of the first full service air quality firms in the country. During the late 1960's and early 1970's YSC developed numerous methodologies for the sampling and analysis of air and emissions from a number of different industrial sources. Additionally, we were one of first commercial laboratories to be involved in groundwater, solid waste, hazardous waste, soils, and air. These environmental laboratory analysis operations, which were an outgrowth of our air quality monitoring studies, were incorporated as York Analytical Laboratories, Inc. in 1990.

B. Staffing and Facilities

York's key management personnel each have over twenty years of experience in environmental analysis. This extensive experience includes all aspects of sampling and analysis. All of our staff have earned graduate and/or undergraduate degrees in various related disciplines including chemistry, biology, engineering and environmental sciences. This team of experienced professionals is equipped with the multi-disciplinary expertise, to provide a high level of support to our clients. Our staff provides technical support to assist clients with Quality Assurance Project Plans, definition of proper methodologies and data quality objectives, and data interpretation. These value-added services are a point of differentiation from other analytical laboratories, we routinely offer as an investment in our client relationships.

Our new Stratford, Connecticut laboratory and offices, includes 8,500 sq. ft. of working laboratory area with an additional 3,500 sq. ft. available for future expansion. The laboratory facilities are equipped with modern state-of-the-art instrumentation and equipment to address the analysis of all environmental matrices. Our laboratory facility is designed to reduce the potential for cross contamination. Separate laboratory environments are provided for volatiles, sample preparation, and sample control to minimize cross-contamination potential. The instrumentation laboratories are segregated by discipline (organics analysis, sample preparation, wet chemistry and atomic spectroscopy)

and are provided with separate recirculating air conditioning systems to reduce cross-contamination from common laboratory solvents (methylene chloride, acetone, hexane and toluene) used in sample extractions. The laboratory maintains comprehensive licenses in various states including New York, Connecticut, New Jersey, Pennsylvania and Rhode Island.

York's expert staff provides technical support to assist our clients with Quality Assurance Project Plans, definition of proper methodologies and data quality objectives, and data interpretation. These value-added services are a point of differentiation, from other laboratories, that we routinely offer as an investment in our relationships with our clients.

C. Services

York provides analysis for all environmental matrices in support of the environmental regulations under the following guidelines or regulations:

- Resource Conservation and Recovery Act (RCRA)
- Clean Water Act (CWA)
- CERCLA/SARA (Superfund)
- Clean Air Act (CAA)
- OSHA/NIOSH
- Land Transfer Regulations
- NYSDEC STARS/USTand T.A.G.M. programs

Key instrumentation and equipment in support of the methods to address analyses for these regulations include:

- Gas Chromatography/Mass Spectrometry
- Gas Chromatography
- Furnace and Flame Atomic Absorption
- Inductively Coupled Plasma
- Infrared Spectrophotometry
- Ion Chromatography
- Full wet chemistry and microbiology laboratories

The foundation for the quality of information and data generated by our laboratory is the company's Quality Assurance Program which is implemented through comprehensive Standard Operating Procedures. These procedures ensure that the client's data quality objectives are both fully understood and delivered, on a timely basis.

Data Validation and Technical Support Services

York, also provides independent data validation and technical support services. These services which are independent from York's traditional laboratory services focus on performing professional services in the areas of analytical data validation and review and interpretation of analytical data related to environmental investigations (i.e. Site and/or Remedial investigations).

Data validation and QA/QC issues associated with technical support are performed by highly qualified personnel certified by the USEPA for data validation. Additionally, members of our staff have had experience in both laboratory analysis and field sampling which provides in depth understanding of work plan development including:

- Analytical requirements
- Project Specific data quality objectives
- State and Federal Data Validation Guidelines

D. Key Clients

We define service as "providing quality data within the time frame committed with superior technical support at a fair price."

York serves engineering consulting firms, major municipalities, utilities and industry, without geographical limitations, including:

Consulting Engineers/Remediation Firms

- IT Corporation/PMS Construction/NYCDDC
- Lro-Kassner/NYCDDC
- Eder Associates/Gannett-Fleming
- Clean Harbors
- Lehrer, McGovern, Bovis
- Malcolm Pirnie, Inc.
- Metcalf & Eddy, Inc.
- Ira D. Conklin
- Fleet Environmental
- Roy F. Weston
- Lenard Engineering
- Leggette Brashears and Graham
- Conestoga-Rovers
- Handex Environmental
- Fanning Phillips & Molnar
- TRC Environmental
- Waste Management

Municipalities

- New York City Department of Environmental Protection
- Connecticut Department of Environmental Protection
- Connecticut Department of Transportation
- Hartford Metropolitan District, Connecticut
- New York City Department of Design and Construction

Utilities

- Central Hudson Gas and Electric Company
- Consolidated Edison, New York
- Niagra Mohawk Power Corporation, New York

Industry

- Connecticut-American Water Company
- Clairol, Inc.
- Cytec, Inc.
- Crompton Manufacturing Corp. (Uniroyal Chemical)
- General Motors
- IBM
- Metro- North Railroad
- Long Island Railroad

E. Summary

We pride ourselves on our level of service to our client. We define service as "providing quality data within the time frame committed with superior technical support at a fair price."

The balance of this document provides brief insight into our ability to provide superior service by describing our capabilities, specific project experience, staff equipment and quality assurance practices.

II. Services, Facilities and Experience

II. Services, Facilities and Experience

With over 30 years of dedicated service to the environmental consulting industry, YAL can provide unparalleled experience to meet your analytical needs.

York Analytical Laboratories, Inc. (YORK), is an independent, privately owned analytical laboratory which provides superior service for a wide range of analysis needs in support of regulated activities under the applicable environmental regulations.

A. Services

York's combination of extensive experience and modern instrumentation provides the ability to support a wide range of analyses. Our in-house capabilities address all the analyses in support of programs under the following guidelines or regulations:

- Resource Conservation and Recovery Act
- Clean Water Act
- CERCLA/SARA (Superfund)
- Clean Air Act
- OSHA/NIOSH
- Land Transfer Regulations
- NYSDEC STARS/UST/TAGM programs

1. Resource Conservation and Recovery Act (RCRA)

York provides analysis of groundwater, soils, solid waste and hazardous waste and air in support of RCRA requirements. These analyses most often include determination of potential contaminants in the categories of target volatile organics, semi-volatile (Base/Neutral/Acid extractable) organics, pesticides, PCBs, herbicides, metals, cyanide, sulfide, ignitability, corrosivity, reactivity, and total petroleum hydrocarbons.

Analyses are conducted in accordance with EPA mandated procedures described in the methods manual designated as "SW-846." York maintains these procedures on our computer database through ChemSoft, Inc. Who provides automatic updating of methods as changes are released by EPA.

The analytical methods most commonly employed in our laboratory include direct analysis of the sample or TCLP extraction followed by methods 601/602, 8021 or 8260 for volatiles using Gas Chromatography and Gas Chromatography/Mass Spectrometry (GC/MS); methods 625 or 8270 for base/neutral/acid extractables (GC/MS); methods 8081 and 8082 for pesticides/PCB (GC); method 8151 for herbicides (GC) and the 6000 and 7000 series for metals (ICP and/or Furnace/Flame Atomic Absorption).

2. Clean Water Act (CWA)

Under the CWA York provides analyses supporting the effluent guidelines of the National Pollutant Discharge Elimination System (NPDES or SPDES) and the Safe Drinking Water Act (SDWA). Analyses offered include Volatiles, BNAs, Pesticides, PCBs, Trace Metals and conventional parameters such as BOD_5, COD and other wet chemistry parameters. Analyses are performed in accordance with the EPA methods described in the Federal Register (EPA 600 Series, 500 series and others) and Standard Methods for the Examination of Water and Wastewater, 19th edition.

Under the NPDES programs (40 CFR122), Volatiles are determined by GC/MS according to EPA method 624; BNAs are determined by GC/MS using method 625, Pesticides/PCBs are determined by method 608, and other parameters are determined in accordance with the EPA Chemical Analysis of Water and Wastes or Standard Methods.

For SDWA support, York provides routine analyses of water quality parameters including microbiological analyses (coliforms), Certificate of Occupancy parameters and determination of other regulated parameters in accordance with the EPA methodologies.

3. CERCLA/SARA (Superfund)

York can provide analysis in support of projects under these programs. We are fully versed with current EPA Contract Laboratory Program protocols for organics and inorganics. We are staffed to provide the hard copy deliverables on an as-required basis for the Target Compound List (TCL) and Target Analyte List (TAL) organics and inorganics respectively.

4. Clean Air Act (CAA)

York's long history of providing air quality monitoring services allows us to offer a significant expertise in this area. Analysis in support of the CAA and ambient air monitoring programs include full capabilities for sampling and analysis for:

- Velocity, moisture, particulates, CO, CO_2, Sox, Nox, volatile organics, semivolatiles, heavy metals, total hydrocarbons and HCL using EPA Methods 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 (and related continuous emissions monitoring methods) 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23 (sampling), 24, 25, 25A , 26 & 29
- Sampling and analysis for organics and inorganics in support of BIF regulations for the burning of hazardous wastes in industrial furnaces and boilers

- Sampling and analysis of ambient and process air for organics using VOST sampling methodology with GC/MS analysis
- Sampling and analysis for ambient air target and non-target volatile organics utilizing EPA Methods TO-14A and TO-15 SUMMA passivated canisters with analysis by GC/MS techniques
- Odor studies utilizing multi-disciplinary approaches

In addition to regulated airborne contaminants, York also provides the following services:

- Odor identification using GC/MS techniques
- Indoor Air Quality studies in commercial and residential facilities

An area of specialization at York involves characterization and quantitation of target and non-target volatile organics employing SUMMA passivated canisters using critical orifice sampling techniques. York can provide sampling of ambient air for parts per trillion levels of volatiles using GC/MS/SIM techniques. In addition, for ambient air, York can provide volatiles determination in land-fill gas, geoprobe samples, and process gas for volatile constituents.

5. OSHA/NIOSH

York provides sampling and analysis for workplace atmospheres for most common organics and inorganics used in industrial environments. Sampling is conducted routinely using personal sampling pumps and analysis of sampling media using gravimetric, GC, AA and spectrophotometric techniques with NIOSH methods.

6. Land Transfer Regulations

York provides full analytical support to meet our client's needs for the various state regulations governing commercial land transfers such as Super Lien (CT), and ECRA (NJ), etc. Analysis of groundwater, soil, building materials, storage tanks (USTs and ASTs) and air are performed in accordance with EPA SW-846 protocols where applicable. Typical analyses provided include Volatiles, PCB, Metals, and TPH can be customized to meet the history of a particular site as determined by Phase I investigations.

York is thoroughly versed in the data deliverable requirements for the various states under their particular programs.

7. NYSDEC STARS/SPOTS Program

York has extensive experience with the NYSDEC Petroleum Contamination Guidance Documents known as the STARS Memorandum and SPOTS Memorandum. York routinely conducts analyses to determine whether groundwater or soil under these guidance documents are hazardous and/or petroleum contaminated. York applies state-of-the-art GC/MS instrumentation to achieve the lower detection limit required for the target compounds listed in these memoranda. York also provides related data packages for NYSDEC ASP A and ASP B formats to support these data.

B. Facilities

York Is a full service laboratory, located at 120 Research Drive, Stratford, CT. This highly accessible location is within a two hour drive from most points of service to effectively service our clients in the northern New Jersey, New York, Connecticut, Massachusetts and Rhode Island areas.

York maintains a 12,000 sq. ft. Office and laboratory facility at its Stratford, CT location. Of this total, 8,500 sq. ft. is dedicated to laboratory activities. The layout of the laboratory is shown at the end of this Section as Figure 2.1. Separate recirculating air conditioning systems are in place in the various laboratories to minimize cross-contamination between the various analysis disciplines.

York also maintains its own machine shop for various applications and to expedite fabrication of specialized sampling equipment.

1. Analytical Equipment

York maintains all of the analytical instrumentation and support equipment to provide analysis in support of our client's needs. A substantial inventory of stock chemicals, gases, commercially purchased standards, glassware and the like is also available.

York utilizes a Windows 2000 Server network with a Microsoft SQL Server 7.0-based Laboratory Information Management System (LIMS) to provide for sample log-in, sample tracking, data and results entry, and final laboratory report generation.

Our instrumentation laboratories are equipped with state-of-the-art analysis systems including the most prominent equipment as follows:

- Gas Chromatography/Mass Spectrometry/Data Systems
  Hewlett Packard 5790, 5971, 5972 Systems-Windows Chemstations

- Gas Chromatographs
  Hewlett Packard 5890-Chemstation Systems
  Perkin Elmer Auto System GC with TURBOCHROM

- Atomic Absorption Spectrophotometers
  Perkin Elmer 1100, 4100ZL Systems

- Inductively Coupled Plasma Spectrometers
  Perkin Elmer Optima 3000XL (Axial)

- Ion Chromatograph
  Dionex 120 with AS40 autosampler

- Infrared Spectrophotometer

- Total Organic Carbon Analyzer

- Computerized gas mass flow controller dilution systems

In addition to instrumentation, our laboratories maintain numerous ancillary sample preparation equipment including TCLP extraction systems, including zero-head space extractors, fume hoods and analytical balances. Table 2.1 at the end of this Section contains a detailed listing of instrumentation and ancillary equipment.

2. Certifications/Licenses

York is currently certified to perform analyses in support of environmental programs in the following states:

- State of Connecticut License No. PH-0723
- State of New York NELAP/ELAP No. 10854
- State of New Jersey No. CT-401
- State of Rhode Island No. 93
- State of Pennsylvania No. 68-3123

Also, by virtue of the January 24, 2001 initiation of the NELAP (National Environmental Laboratory Approval Program), York is also reciprocally licensed in 8 other NELAC accrediting authority states (CA, FL,NH, IL, KS, LA, OR, UT).

Our licenses support analysis of air, water, wastewater, and solid and hazardous waste for:

- Volatiles
- Semi-volatiles (BNA)
- Pesticides/PCBs/Herbicides
- Metals
- Conventional parameters (including Biological)

3. Quality Assurance Program

York provides analytical laboratory services that conform to the needs of our clients and satisfies regulatory requirements.

To meet this standard of service, York has developed a Quality Assurance Program which defines our day to day operations in the Laboratory through the execution of comprehensive Standard Operating Procedures. This program is fully documented, endorsed by company management, and available for review.

Analytical data is used for many purposes including: compliance with regulatory requirements, determination of the presence, concentration and movement of potentially hazardous materials in the environment, potential effects on determination of protection required for individuals, and possible actions necessary for the disposal or treatment of hazardous materials. In all cases, data for any application must be of known quality.

It is the purpose of the York Quality Assurance Program to provide data of known quality which conforms to the requirements of specific protocols. To achieve this objective, a QA program is in place which controls procedures for:

- Preservation of samples
- Receipt and handling of samples
- Preparation and analysis of samples
- Analytical equipment maintenance
- Data rejection/acceptance/verification
- Data reporting

The broad objectives of the York QA Program are achieved by implementation of the following key program elements:

1. Maintain an effective, ongoing quality control program which measures and verifies laboratory performance.
2. Meet data requirements for accuracy, precision, recovery and completeness through strict adherence to SOPs which reflect approved methodologies.
3. Recognize and provide corrective actions for any factor that affect data quality.
4. Maintain complete records of sample submital, client communications, laboratory performance, and completed analyses and support data to provide data quality verification.

The specific related actions are detailed in the York QA Manual and related Standard Operating Procedures.

Other related Quality Assurance practices at York include participation in various state laboratory performance evaluation sample analyses and site inspections, various client site inspections, the use of external controls where available, and participation in the EPA WP and WS performance evaluation audits.

C. Experience

As stated previously, York has had significant experience in all aspects of environmental analysis. Our experience has developed a successful client mix comprised of industry, remediation firms, consulting engineers, and governmental agencies.

Listed below is a cross section of our client base, noting some recent projects, which illustrates our capabilities to handle multi-discipline projects dealing with simple to complex matrices.

1. **Metro North Commuter Railroad** - Full analytical support for SPDES permits, groundwater remediation systems, RIFS programs, and emergency response support.
2. **Marin Environmental** - Full support analyses for Brownfields Redevelopment projects for Stop & Shop and Rite-Aid
3. **New York City DEP/Associated Engineers** - Multi-year ambient air study involving sampling and analysis of approx. 1,000 samples for airborne particulate (PM10), metals, sulfate, and volatile organics using SUMMA canisters-TO-14
4. **Cytec Industries** - Developed a direct aqueous injection GC/MS/SIM Method for the determination of methyl carbamate in river water to determine plume of contamination down to a 5 ppb lower limit detection.
5. **Black & Veatch/IBM** - In conduction with Black & Veatch, York performed analyses of groundwater and industrial effluents throughout a major manufacturing facility. Analyses included volatiles, semi-volatiles, metals and TOC.
6. **SEA Consultants/U.S. Postal Service** - Project involved analytical support for major U.S. Postal Service waste characterization program in the northeastern part of the country. Program involved numerous TCLP analyses for volatiles, semi-volatiles, pesticides/herbicides and metals along with physical characteristics.
7. **Lehrer McGovern Bovis/Thacker Engineering J.V./New York City Department of General Services** - Project involves analytical support for a major underground storage tank decommissioning program in the five boroughs of NYC. Analysis includes volatiles, semi-volatiles, metals, TCLP parameters, and geoprobe gas analysis. All analytical work done with NYSDEC ASP Category A and B deliverables.
8. **IT Corp./PMS Construction-New York City Dept. Of Design and Construction** - Conducted numerous analyses in support of multi-

year/ multi-New York City borough petroleum-impacted sites. Required ASP-B deliverables.

9. **Environmental Concepts, Inc./Consolidated Edison** - Analytical support for comprehensive facility UST program in all New York City locations.

10. **Rockland County, New York** - Conducted odor study involving compound identification using GC/MS techniques.

11. **BMS/Clairol, Inc.** - Weekly analysis of wastewater treatment plant effluent for conventional parameters.

12. **Roy F. Weston Corp.** - Analysis of numerous Summa Canister whole air samples in the environs of a remediation project for TO-14 constituents. Project involved NYSDEC ASP B-like deliverables packages.

13. **Edgeboro Disposal, Inc., New Jersey** - Comprehensive sampling and analysis program to characterize raw landfill gas for volatiles, semi-volatiles, pesticides and PCB's. PCB methods involved EPA M680 (SIM).

14. **State of Connecticut DEP** - Master Services Agreement to provide on-call laboratory services for State facilities and agencies.

15. **State of Connecticut DOT** - Master Services Agreement to provide on-call laboratory support services for DOT

16. **Malcolm-Pirnie, Inc.** - Analysis of ground water, soil and building materials for volatiles, PCBs and metals at a major Bridgeport, CT chemical facility. Project required EPA Level III deliverables.

17. **General Motors Delco Chassis Div.** - Routine analysis of wastewater, waste oil and storm water for 1.2 million S.F. facility.

18. **Fort Drum, NY/Malcolm Pirnie** - Task order contract for analysis support for U.S Army facility. Project involved analysis of wastes, soil and groundwater with ASP B deliverables.

19. **Metcalf & Eddy/Swiss Bank** - York provided hundreds of analyses of soil and water in support of major land transfer project. Analyses involved 4 hour turn-around for QA/QC deliverables.

20. **Numerous Consulting/Engineering Firms** - Analysis of landfill monitoring wells samples and surface waters for regulated parameters in support of Superfund activities as well as routine state requirements (i.e. NYCRR Part 360)

SCALE 1" = 10'

YORK ANALYTICAL LABS

120 RESEARCH DRIVE STRATFORD, CT 02/2004

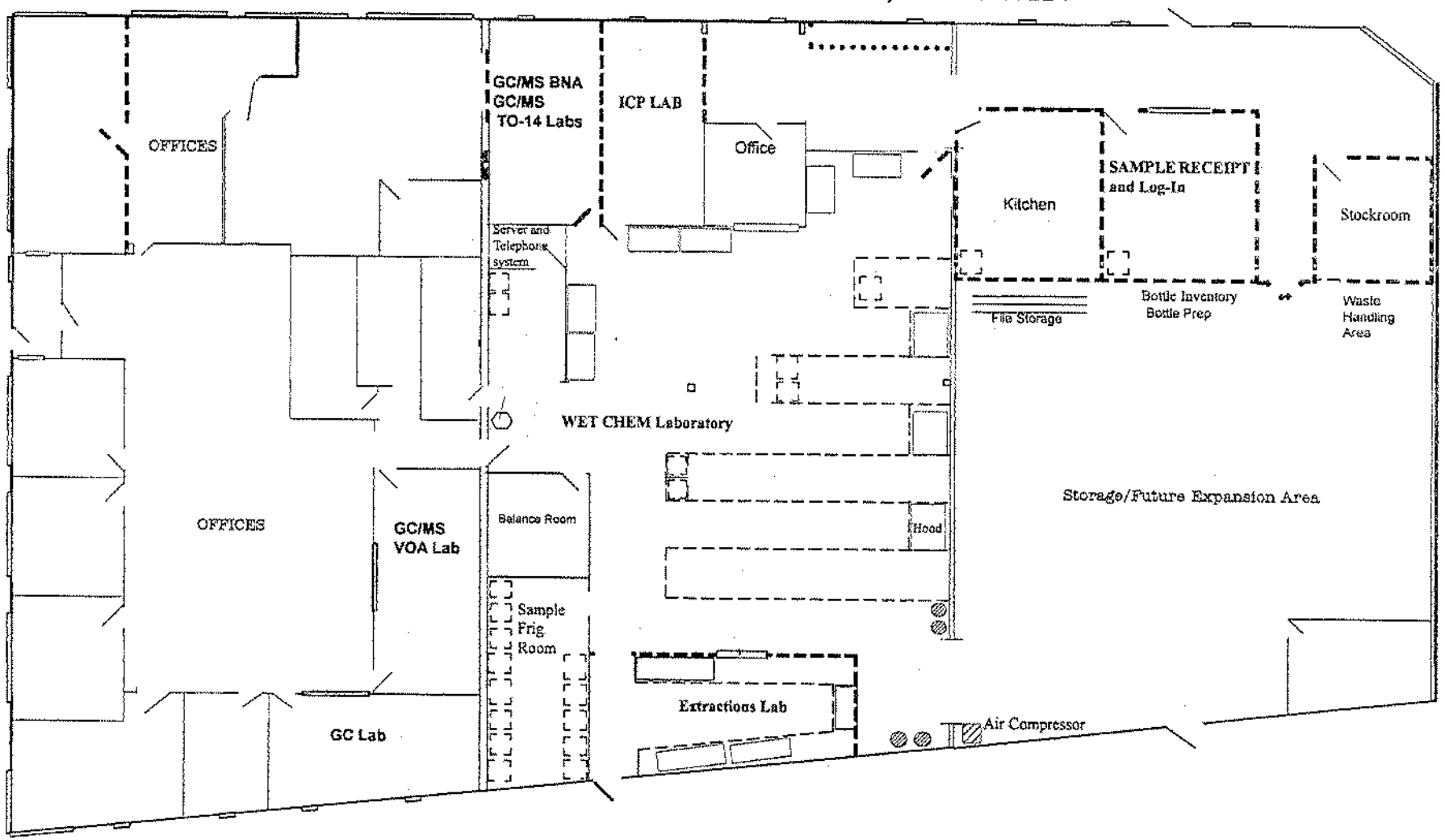


Figure 2-1

Table 2-1

Equipment & Instrumentation	Quantity
Atomic Absorption Hollow Cathode Lamps (Buck & PE)	29
Atomic Absorption System (Perkin Elmer PE 1100, B AAS)	1
Atomic Absorption System (Perkin Elmer PE 1100)	1
Atomic Absorption System, FAA (Perkin Elmer PE 4100, Zeeman GFAA)	1
Autoclave (National Autoclave)	1
Autoclave (National Steril-Quuik 1975)	1
Autoclave, 1 CF (Sybron/Barnstead, C-2260)	1
Autosampler for O.I. System (MPM-16)	1
Autosampler Heater System for O.I. System (MHC-16)	1
Autosampler for VOCs Tekmar LSC2000/2016 ALS	2
Autosampler for VOCs ARCHON/Tekmar LSC-3000	1
Balances, Analytical (Mettlers AE100 H45),Balance (Mettler AT 200)	3
Balance, Analytical (Mettler H-51)	1
Balance, Analytical (S/P 120, ASP, Inc.)	1
Balance, Analytical, Air Pollution (Mettler H-15)	1
Balance, Top Loading (ASP Z-3000, ASP, Inc.)	1
Balance, Top Loading (Mettler PM-4600)	1
Balance, Triple Beam (Ohaus)	1
Barometer (Airguide Model 211B)	1
Centrifuge, Clinical (IEC)	1
Chart Recorder, 10" (Linear 1200)	1
Class S Weights, 10 mg to 100 g (Troemner, Inc.)	1
Clean-up System-Florisil/Alumina- 12 Position (Supelco, Inc.)	1
Cold Vapor Mercury/Hydride System (Buck Scientific, Inc.)	1
Computer (Digital 2001 Computer, Monitor, Keyboard)	1
Computer (Digital Dec Station 3IGSX Computer, Monitor and Keyboard)	3
Computers (Pentium systems)	25
Conductance Meter, Field/Laboratory Model (YSI)	1
Conductivity Meter (YSI)	1

Equipment & Instrumentation	Quantity
Coolers, 2 qt. (Rubbermaid)	10
Coolers, 5 qt. (Igloo)	20
Coolers, 30 qt. (Coleman)	50
Data Station System (Varian CDS 401 #CDS402-1341)	1
Dec Station (Digital 316 SX)	1
Dessicator, Stainless Steel, 1 CF (Boekel)	2
Dessicator, Stainless Steel, 3 CF (Boekel)	1
Diazomethane generator, Wheaton/Aldrich DIAZALD KIT	1
Dispensing Pipet, 1.0 mL (Eppendorf, Inc.)	1
Dispensing Pipet, 5 L-100 L (Eppendorf, Inc.)	1
Distillation System, Ammonia (Wheaton)	2
Draeger Bellows Pump	1
Extraction Apparatus, Liquid-Liquid (Supelco, Inc.)	1
Extractors, Zero Headspace	8
Eye Wash Station, Portable (Bel-Art, Inc.)	1
Eyewash System (Speakman Company)	1
Flash Point Apparatus (Pensky-Martin, Closed Cup)	1
Funnel Rack, Wooden, 12 Position (MacAlaster Bicknell)	2
Furnace (Thermolyne Type 1500)	1
Furnace, Muffle Furnace, 1.5 CF (Gardsmen)	1
Gas Chromatograph (HP 5890 ECD,FID ALS7673,HP ChemSta.)	1
Gas Chromatograph (HP 5890 dual ECD dual ALS7673,HP ChemSta.)	1
Gas Chromatograph (HP 5890II,G.S.V.FPD,TCD)	1
Gas Chromatograph (Perkin Elmer PE 1000 HallPID Detectors)	1
Gas Chromatograph (Perkin Elmer PE 8410 FID,GP100 Printer)	1
Gas Chromatograph (Perkin Elmer PE 8500 GC SN 041426006068)	1
Gas Chromatograph, Portable (AID621,FID)	1
Gas Chromatograph/Mass Spectrometer/Data System (HP 5890 II/5971 &5972/ Chem Station)	4
Gas Chromatograph/Mass Spectrometer/Data System (HP 5890 II/5970/w/ ALS 7673	2
Gas Concentration System/Interface TO-14/15-ENTECH 7000	1
Gas Dilution System (Environics Model 2000)	1
Gas Leak Detector (GM 21-250)-Helium detector	1
Gas Regulators, Brass (Airco, Inc.)	10
Gas Regulators, SS (Airco,Inc.)	7
Gel Permeation Chromatograph -OI AP-1000 18 sample autosystem-GPC	1
Glass Desiccator	4
Heater (Lab-Line Multi Boil Heater No. 2090)	1
Hot Plate (Corning PC-100 1 SF)	6
Hot Plate (Thermolyne Type 2200)	1
Hot Plate/Stirrer (Cimarec 3, Thermolyne)	1

Equipment & Instrumentation	Quantity
Hot Plate/Stirrer (Corning PC-351)	1
Hot Plate/Stirrer (Nuova II, Sybron/Nalge)	1
Hot Plate/Stirrer (Thermolyne Cimarec 2)	1
Hot Plate/Stirrer (Thermolyne Cimarec 3)	1
Incubator (Lab-line No. 3554-17)	2
Incubator, 20C, BOD (VWR 2005)	1
Incubator, Electric (Hotpack 28912)	1
Incubator, Low Temp., 2 CF (Blue M)	1
Inductively Coupled Plasma (OES-PE-Optima 3000XL-Axial)	1
Ion Chromatograph Dionex 120 with AS40 ALS-PeakNet 6 software	1
Laboratory Hoods (Labconco, others)	9
LIMS System (Labworks Windows NT/98/2000 LIMS 25 User NT Server	1
Microbial Air Sampler, 2 Stage (Anderson ,Inc.)	1
Microscope (Olympus CH-2)	1
Microscope, Stereoscope (STEREOZOOM-3, B& L)	1
Oven, 1 CF (Blue M)	1
Oven, 3 CF (Baxter S/P Tempcon)	1
Oven, 5 CF (Blue M)	1
Oven, CEM Microwave (MDS-2000)	1
Oven, Radiant Heat (Lab-Line Imperial II)	1
Oxygen Meter/BOD Probe (VWR 122372)	1
pH/ISE Meter, Portable (Orion Serial)	1
pH Meter (Corning Model 10)	1
pH Meter (Orion EA 940)	1
pH Meter/Specific Ion Meter (Orion SA-720)	1
Photocopier (Cannon NP4835S)	2
Printer (HP Laserjet 2100, 2 MB RAM)	4
Printer (HP Laserjet IV, 2 MB RAM)	4
Printer (HP LaserJet 4000N)	4
Printer (Okidata Microline 320)	1
Printer, Color Inkjet (Epson Stylus 900)	1
Printer, Laser 1200 dpi Resolution (Lexmark Optra R+)	1
Pump, Liquid, Peristaltic, 4 gpm (Cole-Parmer)	1
Pump, Vacuum (GE)	1
Pump, Vacuum (GE)	1
Pumps, Personal Sampling (SKC & Gilian)	6
Purge & Trap (Tekmar ALS 2016)	1
Purge & Trap (Tekmar LCS 2000)	1
Purge & Trap autosampler systems-Archon 51 position samplers	3
Purge & Trap systems-Tekmar 3000	3
Reflux/Distillation System	5

Equipment & Instrumentation	Quantity
Refrigeration Freezer (Kenmore)	1
Refrigerator (Sanyo)	1
Refrigerator (Summit)	1
Refrigerator (VWR Scientific)	1
Refrigerator (Welbilt 1.5 C.F.)	3
Refrigerator (Westinghouse)	1
Refrigerator, 10 CF (Sears)	1
Refrigerator, 14 CF (Gibson)	2
Refrigerator, Flammable Materials Storage (GCA Corp. Precision 813)	1
Refrigerator(Sanyo,1.5 C.F.)	2
Sample Concentrator (Nutech Model 8533-TO-14/VOST)	1
Sample Concentrator (O.I 4460A)	1
Sample Concentrator (Supelco, Inc. Mini-VAP-6)	1
Sample Concentrator (Zymak Turbo VAP II ZW8001)	1
Sample Concentrator (Zymark Tubro VAP II ZW8001)	1
Sample Concentrator (Zymark Turbo VAP II SN 04051)	1
Sonic Cleaning System (Branson 1200)	1

Equipment & Instrumentation	Quantity
Sonic Disruptor (Tekmar)	3
Sonic Disruptor & Sound Enclosure (Heat Systems, Inc.)	3
Sonic Disruptor Sound Chamber	3
Soxhlet Extraction Apparatus, 3 Bay w/Setups (Electro, Inc.)	1
Specific Ion Electrode, Chloride (Orion)	1
Specific Ion Electrode, Chlorine (Orion)	1
Specific Ion Electrode, Flouride (Orion)	1
Spectrophotometer (Bausch & Lomb Spectronic 20)	1
Spectrophotometer, Visible (Milton-Roy, SPEC-20)	1
Steam Bath (Boekel)	1
Steam Washer (Labconco)	1
Stirrer, Gang, 6 Position (Phipps & Bird)	1
Storage Cabinet (Se-Cur-All)	2
Storage Cabinet, Solvent, Safety (Justrite, Inc.)	2
TCLP Extraction Pressure Filtration System (Millipore)	2
TCLP Extraction System (Millipore, Inc.)	4
TCLP Rotator, 12 Position (Assoc. Design & Mfg 12)	1
TCLP Spinner (Millipore)	2
TCLP-ZHE Volatile Extraction System	12
Thermometers, NBS(NIST)Traceable (ASP, Inc.)	2
Thermometers, Various Ranges (ASP, Inc.)	10
Total Organic Carbon Analyzer (ALS- Shimadzu)	1
TPH-Oil-in-Water Analyzer (Buck Scientific HC-404)	1
Turbidity Meter (Lamotte Model 2008)	1
Vortex - Genie SI)	1
Water Bath (25-100C, ASP, Inc.)	1
Water Bath for Incubator (Millipore)	1
Water Purification System (MILLI-Q, Millipore, Inc.)	1
Water Sampling System, Automatic/Compositing (ISCO, Inc.)	1

III. Key Personnel Resumes

III. Key Personnel Resumes

Robert Q. Bradley

Managing Director

Mr. Bradley has over 25 years experience as an analytical chemist, and in the management of laboratory operations. He is fully versed with all current methods of analysis of water, wastewater, solid and hazardous waste and air using classical as well as instrumental techniques.

As Managing Director of York Analytical Laboratories, Inc., Mr Bradley is responsible for all operations of the lab. His extensive experience as both an analytical chemist, and in the management of laboratory facilities provides a combination of technical knowledge and managerial insight that is unequaled in the industry. His specialized expertise includes:

- Laboratory Management
- Analytical Chemistry
- Data Evaluation and Validation
- Environmental Chemistry
- Air Analysis

Mr. Bradley is fully versed with all current methods of analysis of water, wastewater, solid and hazardous waste and air using classical as well as instrumental techniques. He has extensive instrumental experience in the areas of Gas Chromatography, Gas Chromatography/Mass Spectrometry, Infrared Spectrophotometry, Atomic Spectroscopy and wet chemistry techniques.

Mr. Bradley also has had extensive experience involving hazardous waste assessments according to RCRA and CERCLA guidelines. He has spearheaded mobile laboratory programs at major New England landfills where hundreds of drums of hazardous waste were assessed.

He has had extensive experience in the sampling and analysis of airborne emissions from municipal and hazardous waste landfills. This experience is centered around sampling and analysis for target and non-target volatile and semi-volatile organics, as well as target trace metals.

He has had extensive experience in the analysis techniques related to industrial hygiene and ambient air studies including NIOSH, EPA, APHA, and other methods. He also has had significant experience in the sampling and analysis of water, wastewater, and particulate and gaseous emissions employing ASME, EPA, NYSDEC, EPA CLP and other methodologies.

Mr. Bradley has also been instrumental in the development of gas chromatographic/mass spectrometry methods for the evaluation of organic contaminants in the process waste streams of various industries. These developments include rapid screening methods, methods for removal of circumvention of potential interferences, and novel approaches to the quantification and identification of organic compounds. His other developments include gas chromatographic techniques for the sample analysis of sulfur gases from refineries, Kraft paper mills, and coke oven gas systems; procedure for sampling and analysis in the fiber glass industry; development of ion-specific filter medium determining the character of ambient particulate in proximity with stationary sources; development of gas chromatography procedures for quantifying gasoline contamination of surface waters; development of qualitative procedures for the determination of gasoline brand and fuel oil types when found in well supplies and aquifers.

He has had experience in the evaluation of many products including hazardous waste adsorbents; water purification devices; air filtration media and plastics.

Mr. Bradley is experienced in the supervision of technical and sales staff providing the analytical services required for environmental analyses. He has analyzed and interpreted data and prepared reports for various industrial and government clients. He is experienced in the evaluation, selection, and cost control of analytical procedures developed and used in the laboratory, the establishment and maintenance of quality control/quality assurance programs for analytical methods and the training of personnel in the performance of analytical procedures. He has also developed, specified and implemented various LIMS products for analysis and process control laboratories.

Education

- B.S. Chemistry Georgetown University, Washington, D.C.
- M.S.Chemistry(addt'l course work) Georgetown University, Washington, D.C.
- Additional Course Work

Professional Affiliations

- American Chemical Society
- American Water Works Association
- Association of Official Analytical Chemists
- American Management Association
- American Society for Testing and Materials
- Association of Consulting Chemists
- Environmental Assessment Association
- Spill Control Association of America

Selected Publications

New Approach to the Synthesis of 2-aryl Substituted Aziridinium Salts and Reactivity Studies, given at the American Chemical Society Meeting, 1972, New York by D.R. Crist, Georgetown University, Washington, D.C.

R.Q. Bradley, The Chemistry of Nitrogen and Sulfur Oxides, 1977, York Research Corporation, In-house paper.

R.Q. Bradley, A Routine Gas Chromatographic Method for the Determination of Gasoline in Water in the parts per billion (ppb) Range, York Research Corporation, In-house paper.

R.Q. Bradley, R.S. Kearton, Oil and Gas Spill Source Identification, The Petroleum Marketer Magazine, September-October, 1977.

R.Q. Bradley, Dynamic Headspace Hydrocarbon Concentration versus "Real" Gasoline Concentration in Water, York Research/Exxon Co., U.S.A. proprietary report, 1976.

R.Q. Bradley, D.A. Sommerer, Magnesia FGD Process Testing on a Coal-fired Power Plant, Environmental Protection Technology Series, EPA-600/2-77-165, August 1977.

R.Q. Bradley, Analytical Techniques for the Characterization of Raw and Treated Coke Oven Gas, In-house manual, January, 1979.

R. Q. Bradley, Strategies for the Sampling & Analysis of Volatile Organics in Air, Connecticut's Environment, March 1995

III. Key Personnel Resumes

Philip A, Murphy, III

Laboratory Operations Manager / QA/QC Officer

As Operations Manager at York, Mr. Murphy is responsible for the day-to-day operations of the laboratory. His specialized expertise includes:

- Laboratory Operations Management
- Drinking Water Analysis
- Inorganics Analysis (Metals, Classic Chemistry)
- Microbiological Analysis
- Air Analysis using applicable Protocols
- Indoor Air Quality Studies
- QA/QC Implementation

Mr. Murphy has over 15 years experience in environmental analysis. He has extensive experience in the analysis of wastewater for microbiological, metals and general wet chemistry parameters.

Mr. Murphy has over fifteen years experience in environmental analysis. He has extensive experience in the analysis of wastewater for microbiological, metals and general wet chemistry parameters. He has conducted numerous indoor air quality evaluations, sampling and analyzing for fungi and molds, volatile organic compounds and inorganic parameters in industrial, commercial and residential environments.

Mr. Murphy also has extensive experience with USEPA Standard Method analyses in support of NPDES, SPDES, RCRA, CWA, SWDA and CAA Programs. His experience includes wet chemistry, physical and microbiological procedures, as well as graphite furnace, flame atomic absorption and gas chromatography.

Mr. Murphy is also a certified Laboratory Director for public health applications in the State of Connecticut, and has expertise in sample handling and chain-of-custody procedures.

Education

- B.S./Aquatic Biology University of Connecticut
- M.S./Environmental Biology University of Bridgeport, Connecticut

Professional Affiliations

- American Microbiological Society
- American Chemical Society
- Trout Unlimited, Mianus, C (Served as President, Secretary, Stream Action Committee Chair and on the Board of Directors)

III. Key Personnel Resumes

Richard H. August

Senior Chemist/Manager - Client Services

Mr.August has over 18 years of environmental laboratory experience with all current methods of analysis for water, wastewater, solid, hazardous waste and air, as well as experience as a Laboratory Manager with large Massachusetts based company. He has extensive experience with methods development and documentation in the areas of Gas Chromatography, Gas Chromatography/Mass Spectrometry, infrared. Spectrophotometry and wet chemistry techniques.

Mr. August has over eighteen years of environmental laboratory experience. He has extensive experience with all current methods of analysis for water, wastewater, solid, hazardous waste and air. Having had five years of experience as a Laboratory Manager with large Massachusetts based company, Mr. August has extensive experience with methods development and documentation in the areas of Gas Chromatography, Gas Chromatography/Mass Spectrometry, infrared. Spectrophotometry and wet chemistry techniques. He also has had experience in analytical methods (NIOSH, OSHA, EPA) associated with Indoor Air Quality and Industrial Hygiene studies. His areas of specialization include:

- Environmental Regulations (EPA, RCRA, STARS, SPOTS, UST)
- Client Service and Laboratory Analysis for Volatiles and Semi-Volatiles
- OSHA/NIOSH Analysis
- QA/QC Programs

Mr. August has also been involved with the development, implementation and maintenance of laboratory Quality Assurance/Quality control programs.

Mr. August has had extensive experience in Hazardous Waste Assessments in accordance with RCRA and CERCLA, and has been involved with analysis and classification of hundreds of drums of unknown waste.

At YAL, Mr. August is responsible for client services. His responsibilities include sales and marketing of laboratory services as well as business development. He provides technical support to clients for specific compliance purposes, specific analysis strategies, guidance on appropriate analytical methods and helps to ensure that all data quality objectives are met. He is also involved with the organics analysis, analysis and interpretation of data as well as the preparation of technical reports for various industrial and governmental clients.

Education

- B.S./Biology, Southern Connecticut State University
- Continuing Graduate Studies, Environmental Science Program, University of New Haven, New Haven, CT

III. Key Personnel Resumes

Johanna Pozzi-Woodfield

Group Leader - Gas Chromatography

Ms. Pozzi has over 15 years experience in environmental laboratory analysis with a specialized expertise in Organics Analysis, Gas Chromatography/Mass, Spectrometry and Gas Chromatography Methods

Ms. Pozzi has over fifteen years of experience in environmental laboratory analysis. Previously, she was Manager of Organics Analyses for an environmental laboratory. Her responsibilities included the overall supervision of the Organics Department for the analysis of water, wastewater, soil, sediment and oil. In addition, she held full responsibility for the in-house Quality Control Program.

Ms. Pozzi has extensive experience in the analyses of organics in accordance with SW-846 Methods, 8010/8015/8020/8021, 8240, 8260, 8270, 8151, 8015M and 8081. She is also familiar with troubleshooting analytical systems.

Prior to her environmental laboratory experience, she was a Quality Control Supervisor in the Specialty Chemical and Plating industries.

At York, Ms. Pozzi is responsible for all organics analyses with special emphasis on Gas Chromatography methods. These methods are applied to all environmental matrices, including air.

Her instrumental experience includes use of gas chromatography utilizing many detectors including: electron capture, flame photometric, nitrogen/phosphorous, flame ionization and thermal conductivity.

Education

- B.S./Chemistry, University of New Haven

III. Key Personnel Resumes

John R. Gale

Assistant Laboratory Operations Manager / Safety & Health Officer

Mr. Gale has had over 20 years of experience in the analysis of water, wastewater, solid and hazardous waste for conventional pollutants in accordance with Standard Methods, EPA Methods and SW-846 Methods.

He is also highly versed in all OSHA and laboratory safety guidelines.

Mr. Gale has over 20 years experience in the analysis of water, wastewater, solid and hazardous waste and specialized expertise in volatiles analysis (water, soil, air) by GC/MS, wet chemistry analysis and OSHA regulations.

He has an extensive background in the preparation and analysis of varied matrices for inorganic species and purgeable organic compounds, extractable base-neutral and acid organic compounds, pesticides and PCB's according to EPA Methods. He is thoroughly versed in the clean-up of pesticide/PCB extracts utilizing column chromatography methods. Mr. Gale also has extensive experience in extraction techniques - liquid/liquid continuous extractions and sonic disruption extractions. Mr. Gale is also experienced with analyses of samples for volatiles and semi-volatiles by GC/MS using USEPA Contract Lab Program Protocols and is involved with routine maintenance and troubleshooting of the GC/MS systems and Gas Chromatographs.

His experience also includes the analysis of petroleum products and fossil fuels by ASTM and ASME methods including bomb calorimetry and elemental analysis.

At York Mr. Gale is responsible for all inorganics analysis and sample preparation and extraction staff in the laboratory.

Education

- A.S./Chemistry Sacred Heart University, Bridgeport, CT

Occupational Certifications

- 40 Hour HAZMAT OSHA Certified

III. Key Personnel Resumes

Michael Woodfield

Group Leader, Metals Preparation and Analysis

Mr. Woodfield has over ten years of experience in environmental laboratory analysis. Previously, Mr. Woodfield was involved in inorganics analysis using common spectroscopic methods. He also has performed organics analyses including Gas Chromatography and Gas Chromatography/Mass Spectrometry. He is fully versed in all the related SW-846 analysis.

Mr. Woodfield has over 10 years experience in laboratory analysis with specialized expertise in Zeeman Atomic Absorption, Inductively Coupled Plasma (Axial & Radial), Flame Atomic Absorption and Organics Analysis.

Mr. Woodfield also has extensive experience in metals analysis utilizing flame atomic absorption(AA), Zeeman graphite furnace AA and Inductively Coupled Plasma (ICP).

He also has extensive experience in sampling of groundwater and effluents relative to CTDEP requirements. Mr. Woodfield is also experienced with all wet chemistry procedures typically utilized in the industry.

At York Mr. Woodfield is currently responsible for all analyses of trace metals utilizing ICP, GFAA, FAA and Mercury. He has extensive experience in all related QA/QC procedures. In addition, he is responsible for QA/QC and client interface as a secondary role.

Education

- B.S./Chemistry, Paul Smith's College, Paul Smith's, NY

III. Key Personnel Resumes

Johanna Pozzi-Woodfield

Group Leader - Gas Chromatography

Ms. Pozzi has over 10 years experience in environmental laboratory analysis with a specialized expertise in Organics Analysis, Gas Chromatography/Mass, Spectrometry and Gas Chromatography Methods

Ms. Pozzi has over ten years of experience in environmental laboratory analysis. Previously, she was Manager of Organics Analyses for an environmental laboratory. Her responsibilities included the overall supervision of the Organics Department for the analysis of water, wastewater, soil, sediment and oil. In addition, she held full responsibility for the in-house Quality Control Program.

Ms. Pozzi has extensive experience in the analyses of organics in accordance with SW-846 Methods, 8010/8015/8020, 8240, 8260, 8260, 8150, 8015M and 8080. She is also familiar with troubleshooting analytical systems.

Prior to her environmental laboratory experience, she was a Quality Control Supervisor in the Specialty Chemical and Plating industries.

At York, Ms. Pozzi is responsible for all organics analyses with special emphasis on Gas Chromatography methods. These methods are applied to all environmental matrices, including air.

Her instrumental experience includes use of gas chromatography utilizing many detectors including: electron capture, flame photometric, nitrogen/phosphorous, flame ionization and thermal conductivity.

Education

- B.S./Chemistry, University of New Haven

III. Key Personnel Resumes

Nezar Mejalli

Senior Systems Engineer/LIMS Administrator/MIS Professional

Mr. Mejalli has over 5 years experience in computer hardware and software applications with special emphasis on environmental laboratory software and network/work station systems

Mr. Mejalli has over five years of experience in the environmental industry serving in various capacities including air quality engineering and computer systems design, build and training.

As an environmental engineer at York, his role involved the following.

1. Designed and automated a Continuous Emissions Monitoring Network for ambient air encompassing Manhattan's North River Water Pollution Control Facility, utilizing a total of eight different data sites within the plant and in the surrounding community.
2. Designed and automated a prototype Air Quality Monitoring Station for hydrogen sulfide and implemented into the existing Continuos Emissions Monitoring Network.
3. Authored numerous monthly reports, quarterly reports and annual reports with respect to the data generated by the monitoring system.
4. Directly responsible to the New York City Department of Environmental Protection Agency and the New York State Department of Environmental Conservation for the upkeep of the Monitoring Network, and the validity of data.
5. Engineered vital components to monitor for Dioxins throughout the State of Connecticut via semi-volatile organic compounds (SVOC) samplers.
6. Directly responsible for field samples, data collection and data validity.
7. Directly responsible for the maintenance of Air Quality Monitoring Stations.
8. Operated and maintained numerous samplers for inhalable particulate (PM_{10}), semi-volatile organic compounds (SVOC) and volatile organic compounds (VOC).

As Network/Computer Administrator he was

9. Directly responsible for troubleshooting, maintaining and safeguarding Pentium based PC desktop workstations and the Pentium based network server.
10. Directly responsible for the troubleshooting and maintenance of all the computers in the companies.

In his present role as Senior Systems Engineer he has full MIS responsibility and has

- Designed and implemented 4 twenty-five user Novell Network and Windows NT 4 into Sister Company to optimize data evaluation, report generation and overall company production.
- Managed a one hundred thousand-dollar budget for the implementation of the Novell and Windows NT Networks.

Education

B.S./Electrical Engineering, Manhattan College, Riverdale, NY

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
Antonia C. Novello, M.D., M.P.H., Dr.P.H.

Expires 12:01 AM April 01, 2005
Issued April 01, 2004
Revised June 08, 2004

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD CT 06615 United States

NY Lab Id No: 10854
EPA Lab Code: CT00106

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Drinking Water Metals I	
Arsenic, Total	EPA 200.7
Barium, Total	EPA 200.7
Cadmium, Total	EPA 200.7
Chromium, Total	EPA 200.7
Copper, Total	EPA 200.7
Iron, Total	EPA 200.7
Lead, Total	SM 18-19 3113B
Manganese, Total	EPA 200.7
Mercury, Total	EPA 245.1
Selenium, Total	SM 18-19 3114B
Silver, Total	EPA 200.7
Zinc, Total	EPA 200.7
Drinking Water Metals II	
Antimony, Total	ASTM D3697-92
Beryllium, Total	EPA 200.7
Nickel, Total	EPA 200.7
Thallium, Total	EPA 200.8
Drinking Water Miscellaneous	
Methyl tert-butyl ether	EPA 524.2
Drinking Water Non-Metals	
Color	SM 18-20 2120B
Corrosivity	SM 18-19 2330
Drinking Water Non-Metals	
Cyanide	EPA 335.4
Fluoride, Total	EPA 300.0
Hydrogen Ion (pH)	EPA 150.1
Nitrate (as N)	EPA 300.0
Solids, Total Dissolved	SM 18-20 2540C
Drinking Water Trihalomethanes	
Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Volatile Aromatics	
1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2

Serial No.: 23619

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Volatile Aromatics	
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
o-Xylene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Volatile Halocarbons	
1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2

Volatile Halocarbons	
1,3-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

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All approved analytes are listed below:

Benzidines	
3,3 -Dichlorobenzidine	EPA 625
	SW-846 8270C
Benzidine	EPA 625
	SW-846 8270C
Chlorinated Hydrocarbon Pesticides	
4,4 -DDE	EPA 608
	SW-846 8081A
4,4 -DDT	EPA 608
	SW-846 8081A
4,4-DDD	EPA 608
	SW-846 8081A
Aldrin	EPA 608
	SW-846 8081A
alpha-BHC	EPA 608
	SW-846 8081A
beta-BHC	EPA 608
	SW-846 8081A
Chlordane Total	EPA 608
	SW-846 8081A
delta-BHC	EPA 608
	SW-846 8081A
Dieldrin	EPA 608
	SW-846 8081A
Chlorinated Hydrocarbon Pesticides	
Endosulfan I	EPA 608
	SW-846 8081A
Endosulfan II	EPA 608
	SW-846 8081A
Endosulfan sulfate	EPA 608
	SW-846 8081A
Endrin	EPA 608
	SW-846 8081A
Endrin aldehyde	EPA 608
	SW-846 8081A
Heptachlor	EPA 608
	SW-846 8081A
Heptachlor epoxide	EPA 608
	SW-846 8081A
Lindane	EPA 608
	SW-846 8081A
Toxaphene	EPA 608
	SW-846 8081A
Chlorinated Hydrocarbons	
1,2,4-Trichlorobenzene	EPA 625
	SW-846 8260B
	SW-846 8270C
2-Chloronaphthalene	EPA 625

Serial No.: 23620

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Chlorinated Hydrocarbons	
2-Chloronaphthalene	SW-846 8270C
Hexachlorobenzene	EPA 625
	SW-846 8270C
Hexachlorobutadiene	EPA 625
	SW-846 8260B
	SW-846 8270C
Hexachlorocyclopentadiene	EPA 625
	SW-846 8270C
Hexachloroethane	EPA 625
	SW-846 8270C
Chlorophenoxy Acid Pesticides	
2,4,5-T	EPA 1978, p.115
	SM 18-20 6640B
	SW-846 8151A
2,4,5-TP (Silvex)	EPA 1978, p.115
	SM 18-20 6640B
	SW-846 8151A
2,4-D	EPA 1978, p.115
	SM 18-20 6640B
	SW-846 8151A
Dicamba	EPA 1978, p.115
	SW-846 8151A
Demand	
Biochemical Oxygen Demand	EPA 405.1
Haloethers	
4-Bromophenylphenyl ether	EPA 625
	SW-846 8270C
4-Chlorophenylphenyl ether	EPA 625
	SW-846 8270C
Bis (2-chloroisopropyl) ether	EPA 625
	SW-846 8270C
Bis(2-chloroethoxy)methane	EPA 625
	SW-846 8270C
Bis(2-chloroethyl)ether	EPA 625
	SW-846 8270C
Nitroaromatics and Isophorone	
2,4-Dinitrotoluene	EPA 625
	SW-846 8270C
2,6-Dinitrotoluene	EPA 625
	SW-846 8270C
Isophorone	EPA 625
	SW-846 8270C
Nitrobenzene	EPA 625
	SW-846 8270C

Serial No.: 23620

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
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Revised June 08, 2004

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD CT 06615 United States

NY Lab Id No: 10854
EPA Lab Code: CT00106

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Nitrosoamines	
N-Nitrosodi-n-propylamine	EPA 625
	SW-846 8270C
N-Nitrosodiphenylamine	EPA 625
	SW-846 8270C
Nutrient	
Ammonia (as N)	EPA 350.3
Nitrate (as N)	EPA 300.0
Nitrite (as N)	EPA 300.0
Phosphorus, Total	EPA 365.2
Phthalate Esters	
Benzyl butyl phthalate	EPA 625
	SW-846 8270C
Bis(2-ethylhexyl) phthalate	EPA 625
	SW-846 8270C
Diethyl phthalate	EPA 625
	SW-846 8270C
Dimethyl phthalate	EPA 625
	SW-846 8270C
Di-n-butyl phthalate	EPA 625
	SW-846 8270C
Di-n-octyl phthalate	EPA 625
	SW-846 8270C
Polychlorinated Biphenyls	
PCB-1016	EPA 608
	SW-846 8082
PCB-1221	EPA 608
	SW-846 8082
PCB-1232	EPA 608
	SW-846 8082
PCB-1242	EPA 608
	SW-846 8082
PCB-1248	EPA 608
	SW-846 8082
Polynuclear Aromatics	
Acenaphthene	EPA 625
	SW-846 8270C
Acenaphthylene	EPA 625
	SW-846 8270C
Anthracene	EPA 625
	SW-846 8270C
Benzo(a)anthracene	EPA 625
	SW-846 8270C
Benzo(a)pyrene	EPA 625
	SW-846 8270C
Benzo(b)fluoranthene	EPA 625
	SW-846 8270C

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Polynuclear Aromatics	
Benzo(ghi)perylene	EPA 625
	SW-846 8270C
Benzo(k)fluoranthene	EPA 625
	SW-846 8270C
Chrysene	EPA 625
	SW-846 8270C
Dibenzo(a,h)anthracene	EPA 625
	SW-846 8270C
Fluoranthene	EPA 625
	SW-846 8270C
Fluorene	EPA 625
	SW-846 8270C
Indeno(1,2,3-cd)pyrene	EPA 625
	SW-846 8270C
Naphthalene	EPA 625
	SW-846 8270C
Phenanthrene	EPA 625
	SW-846 8270C
Pyrene	EPA 625
	SW-846 8270C
Priority Pollutant Phenols	
2,4,5-Trichlorophenol	EPA 625
	SW-846 8270C
Priority Pollutant Phenols	
2,4,6-Trichlorophenol	EPA 625
	SW-846 8270C
2,4-Dichlorophenol	EPA 625
	SW-846 8270C
2,4-Dimethylphenol	EPA 625
	SW-846 8270C
2,4-Dinitrophenol	EPA 625
	SW-846 8270C
2-Chlorophenol	EPA 625
	SW-846 8270C
2-Methyl-4,6-dinitrophenol	EPA 625
	SW-846 8270C
2-Nitrophenol	EPA 625
	SW-846 8270C
4-Chloro-3-methylphenol	EPA 625
	SW-846 8270C
4-Nitrophenol	EPA 625
	SW-846 8270C
Pentachlorophenol	EPA 625
	SW-846 8270C
Phenol	EPA 625
	SW-846 8270C

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Purgeable Aromatics	
1,2-Dichlorobenzene	EPA 624
	SW-846 8260B
	SW-846 8270C
1,3-Dichlorobenzene	EPA 624
	SW-846 8260B
	SW-846 8270C
1,4-Dichlorobenzene	EPA 624
	SW-846 8260B
	SW-846 8270C
Benzene	EPA 624
	SW-846 8260B
Chlorobenzene	EPA 624
	SW-846 8260B
Ethyl benzene	EPA 624
	SW-846 8260B
Toluene	EPA 624
	SW-846 8260B
Total Xylenes	EPA 624
	SW-846 8260B
Purgeable Halocarbons	
1,1,1-Trichloroethane	EPA 624
	SW-846 8260B
1,1,2,2-Tetrachloroethane	EPA 624

Purgeable Halocarbons	
1,1,2,2-Tetrachloroethane	SW-846 8260B
1,1,2-Trichloroethane	EPA 624
	SW-846 8260B
1,1-Dichloroethane	EPA 624
	SW-846 8260B
1,1-Dichloroethene	EPA 624
	SW-846 8260B
1,2-Dichloroethane	EPA 624
	SW-846 8260B
1,2-Dichloropropane	EPA 624
	SW-846 8260B
2-Chloroethylvinyl ether	SW-846 8260B
Bromodichloromethane	EPA 624
	SW-846 8260B
Bromoform	EPA 624
	SW-846 8260B
Bromomethane	EPA 624
Carbon tetrachloride	EPA 624
	SW-846 8260B
Chloroethane	EPA 624
	SW-846 8260B
Chloroform	EPA 624
	SW-846 8260B

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Purgeable Halocarbons	
Chloromethane	EPA 624
	SW-846 8260B
cis-1,3-Dichloropropene	EPA 624
	SW-846 8260B
Dibromochloromethane	EPA 624
	SW-846 8260B
Dichlorodifluoromethane	EPA 624
	SW-846 8260B
Methylene chloride	EPA 624
	SW-846 8260B
Tetrachloroethene	EPA 624
	SW-846 8260B
trans-1,2-Dichlorcethene	EPA 624
	SW-846 8260B
trans-1,3-Dichloropropene	EPA 624
	SW-846 8260B
Trichloroethene	EPA 624
	SW-846 8260B
Trichlorofluoromethane	SW-846 8260B
Vinyl chloride	EPA 624
	SW-846 8260B
Residue	
Solids, Total Suspended	EPA 160.2

TCLP Additional Compounds	
Cresol	SW-846 8270C
Methylethyl ketone (2-butanone)	SW-846 8260B
Pyridine	SW-846 8270C
Wastewater Metals I	
Barium, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 6010B
Cadmium, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 3020-A
	SW-846 6010B
Chromium, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 3020-A
	SW-846 6010B
Copper, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 6010B
Iron, Total	SW-846 3005A

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All approved analytes are listed below:

Wastewater Metals I	
Iron, Total	SW-846 3010A
	SW-846 6010B
Lead, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 3020-A
	SW-846 6010B
Magnesium, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 6010B
Manganese, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 6010B
Nickel, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 3020-A
	SW-846 6010B
Silver, Total	EPA 200.7
	SW-846 3005A
	SW-846 6010B

Wastewater Metals II	
Aluminum, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 6010B
Antimony, Total	EPA 200.7
	SW-846 3005A
	SW-846 6010B
Arsenic, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 6010B
Beryllium, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 3020-A
	SW-846 6010B
Chromium VI	EPA 218.4
	SM 18-19 3111C
	SW-846 7190
Mercury, Total	EPA 245.1
	EPA 245.2
	SW-846 7470A
Selenium, Total	EPA 200.7

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All approved analytes are listed below:

Wastewater Metals II	
Selenium, Total	SW-846 3005A
	SW-846 3010A
	SW-846 6010B
Vanadium, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 3020-A
	SW-846 6010B
Zinc, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 6010B
Wastewater Metals III	
Molybdenum, Total	EPA 200.7
	SW-846 3005A
	SW-846 3020-A
	SW-846 6010B
Thallium, Total	EPA 200.7
	SW-846 3005A
	SW-846 3010A
	SW-846 3020-A
	SW-846 6010B

Wastewater Miscellaneous	
Cyanide, Total	EPA 335.2
Oil & Grease Total Recoverable	EPA 413.1
Surfactant (MBAS)	SM 18-20 5540 C

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All approved analytes are listed below:

Characteristic Testing	
Corrosivity	SW-846 1110
E.P. Toxicity	SW-846 1310
Ignitability	SW-846 1010
Reactivity	SW-846 Ch7, Sec. 7.3
TCLP	SW-846 1311
Chlorinated Hydrocarbon Pesticides	
4,4 -DDE	SW-846 8081A
4,4 -DDT	SW-846 8081A
4,4-DDD	SW-846 8081A
Aldrin	SW-846 8081A
alpha-BHC	SW-846 8081A
beta-BHC	SW-846 8081A
Chlordane Total	SW-846 8081A
delta-BHC	SW-846 8081A
Dieldrin	SW-846 8081A
Endosulfan I	SW-846 8081A
Endosulfan II	SW-846 8081A
Endosulfan sulfate	SW-846 8081A
Endrin	SW-846 8081A
Endrin aldehyde	SW-846 8081A
Heptachlor	SW-846 8081A
Heptachlor epoxide	SW-846 8081A
Lindane	SW-846 8081A
Chlorinated Hydrocarbon Pesticides	
Methoxychlor	SW-846 8081A
Chlorinated Hydrocarbons	
1,2,4-Trichlorobenzene	SW-846 8270C
2-Chloronaphthalene	SW-846 8270C
Hexachlorobenzene	SW-846 8270C
Hexachlorobutadiene	SW-846 8270C
Hexachlorocyclopentadiene	SW-846 8270C
Hexachloroethane	SW-846 8270C
Chlorophenoxy Acid Pesticides	
2,4,5-T	SW-846 8151A
2,4,5-TP (Silvex)	SW-846 8151A
2,4-D	SW-846 8151A
Dicamba	SW-846 8151A
Haloethers	
Bis (2-chloroisopropyl) ether	SW-846 8270C
Bis(2-chloroethoxy)methane	SW-846 8270C
Metals I	
Barium, Total	SW-846 6010B
Cadmium, Total	SW-846 6010B
Chromium, Total	SW-846 6010B
Lead, Total	SW-846 6010B

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DOH-3317 (3/97)

APPENDIX B

Resume for DUSR

Carole A. Corrado-Tomlins
The Data Quality Indicator & Associates, Inc.

AREAS OF EXPERIENCE/EXPERTISE

Interpretation of laboratory analytical data, analytical method design/evaluation, sampling techniques and design, project quality assurance/quality control, laboratory auditing, data validation/integrity/usability, and laboratory program management.

EDUCATION

BS (Biology/Ecology) 1986; State University of New York at Plattsburgh
AA (Chemistry) 1986; State University of New York at Plattsburgh
AA (Environmental Science) 1986; State University of New York at Plattsburgh
AA (Coral Reef Productivity); 1985/1986 State University of New York, Overseas Program in Oceanography – San Salvador, Bahamas

CERTIFICATIONS/REGISTRATIONS

USEPA Data Quality Objectives (February 1997)
USEPA Integrating Quality Assurance into Project Development (March 1998)
USEPA Orientation to Quality Assurance (February 1997)
EPA Region II Inorganic Data Validation (March 1995)
EPA Region II Organic Data Validation (October 1994)
OSHA 40-Hour Hazardous Waste Operations Safety Training
OSHA 8-Hour Supervisor Training
New York State Emergency Medical Technician (#137223)
Standard First Aid and CPR
PADI Open Water Diver (#87233839)
Hewlett Packard GC/MS Training (July 1993)
Restek's Capillary Chromatography Seminar (September 1992)
Hewlett Packard GC/MS and other hyphenated techniques (January 1991)

MEMBERSHIPS/POSITIONS

Poughkeepsie Area Chamber of Commerce
Dutchess County Legislature: Board of Directors - Resource Recovery Agency Board

PROFESSIONAL SOCIETIES

American Society for Quality (member)

Courses Completed:
Basic Skills Used in Auditing
Internal Auditing Basics
Auditing Fundamentals I
Auditing Fundamentals II
Process Auditing Techniques

35 Pawling Lake
Pawling, NY 12564
845-855-9007
845-855-3636

CONFERENCES

"Fecal Coliform Collection and Data Interpretation": Presented at the Mississippi Water Environment Association, Jackson, MS (June 2002).

PUBLICATIONS

"How to Hire an Environmental Testing Laboratory": Featured in *The Environmental Manager's Compliance Advisor* (Issue EM 559, January 21, 2002).

"Drinking Water Labs Face Stricter Regs- Recommendations to Improve Operations and QA/QC": Featured in *The Environmental Manager's Compliance Advisor* (Issue EM 566, May 6, 2002).

GENERAL EXPERIENCE

Environmental Laboratory
Performed laboratory analyses in Inorganic and Organic parameters, including classical chemistry, metals, volatiles, semivolatiles, pesticides, herbicides, and PCB analyses. Additionally, served in management and Quality Assurance Officer roles within laboratories.

A/E Engineering-Consulting
Performed the following: data validation and usability reports for State and Federal Programs, expert reports for purposes of litigation, on-site project specific laboratory audits, field sampling collection, and project design to meet discharge permit requirements, quality assurance manager, and company Data Quality Assurance expert.

DETAILED EXPERIENCE

2002 to Date — The Data Quality Indicator & Associates, Inc.

- **Hudson River PCBs Site.** Assisted in the preparation of the Quality Assurance Project Plan for the Design Support Sediment Sampling and Analysis Oversight. Assisted MPI, EPA, and USACE with the following: document review of laboratory specific extraction/analysis SOPs for PCB homolog analysis; performed three separate on-site audits of the government oversight laboratory; and performed data validation of over 250 split sediment samples analyzed via EPA Method 680 using data validation guidelines developed by General Electric.
- **Mississippi Department of Environmental Quality.** Contracted to evaluate Bacteriological data generated from sampling conducted at Targeted Pathogen TMDL Locations in the Pearl River and South Independent Stream Basins (Non-Contact Recreational Season – Nov-Dec 2000). Data assessment consisted of precision measurements and statistical examination of fecal coliform data.
- **Mississippi Department of Environmental Quality.** Contracted to evaluate Bacteriological data generated from sampling conducted at Targeted Pathogen TMDL Locations in the Pearl River and South Independent

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DETAILED EXPERIENCE (Continued)

- Stream Basins (Contact Recreational Season – Sept-Oct 2001). Data assessment consisted of precision measurements and statistical examination of fecal coliform data.
- **Mississippi Department of Environmental Quality.** Contracted to evaluate Bacteriological data generated from sampling conducted at Targeted Pathogen TMDL Locations in the Yazoo River Basin (Contact Recreational Season – Sept-Oct 2001). Data assessment consisted of precision measurements and statistical examination of fecal coliform data.

- **Mississippi Department of Environmental Quality.** Contracted to evaluate Bacteriological data generated from sampling conducted at Targeted Pathogen TMDL Locations in the Pearl River and South Independent Stream Basins (Non-Contact Recreational Season – Nov-Dec 2001). Data assessment consisted of precision measurements and statistical examination of fecal coliform data.
- **Mississippi Department of Environmental Quality.** Contracted to evaluate Bacteriological data generated from sampling conducted at Targeted Pathogen TMDL Locations in the Yazoo River Basin (Non-Contact Recreational Season – Nov-Dec 2001). Data assessment consisted of precision measurements and statistical examination of fecal coliform data.
- **Mississippi Department of Environmental Quality.** Contracted to evaluate Bacteriological data generated from sampling conducted at Targeted Pathogen TMDL Locations in the Pascagoula, Pearl, Tombigbee, Big Black, Tennessee and Northern Independent Stream Basins (Non-Contact Recreational Season – Nov 2001-Feb 2002). Data assessment consisted of precision measurements and statistical examination of fecal coliform data.
- **Philips Lighting Company:** Contracted by Hampton-Clarke to review approximately 250 arsenic, lead, and mercury data to determine the health risk evaluation and environmental impacts. Data validation performed in accordance with EPA Region III - Innovative Approaches to Data Validation finalized June 1995.
- **Former Metal Finishing Corporation Site (Toa Baja, Puerto Rico):** Contracted to review total metals data in soil and groundwater to determine the health risk evaluation and environmental impacts.
- **Quality Electroplating Corporation Site (Toa Baja, Puerto Rico):** Contracted to review total metals, semivolatiles, and pesticide/PCB data in soil and groundwater samples to determine the health risk evaluation and environmental impacts.
- **City of Sacramento:** Contracted to assist in the preparation of a technical memorandum to investigate potential sources of cyanide contamination at WWTP within the City of Sacramento County, Ca.
- **New Rochelle:** Contracted to review classical chemistry and organic analysis on a quarterly basis to monitor environmental conditions in groundwater samples due to contaminated from Underground Storage Tanks.

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DETAILED EXPERIENCE (Continued)

- **New York City Department of Environmental Protection: VOC & Odor Emissions Studies at Dewatering Facilities / New York NY.** Performed data validation, evaluation, and usability analysis of laboratory-generated data analyses submitted from sample collection of odor control systems at Wards Island, Tallman Island, and Jamaica Water Pollution Control Plants. Building and process air entering and exiting the wet scrubbers and activated carbon vessels were analyzed for hydrogen sulfide, odorous organic compounds, VOCs, and ammonia. The efficiency and performance of the odor control systems were evaluated on the basis of the analytical data. In addition, performed an on-site visit to laboratory facility to resolve laboratory data issues.

- **New York City Department of Environmental Protection: Engine Emissions Studies / New York NY.** Performed data validation, evaluation, and usability analysis of on-site and off-site laboratory-generated data analyses submitted from sample collection of engine testing program at the Tallman Island and Coney Island Water Pollution Control Plants. Data analyses consisted of methods performed to determine the emissions of criteria pollutants and VOCs from internal combustion engines burning digester gas, natural gas, and diesel fuels. Testing results were used in Title V permitting development.

- **New York City Department of Environmental Protection: Kensico Flow Control Modifications – Aerator No. 2 (Delaware Aerator) / Town of Mt. Pleasant NY.** Prepared a Sampling and Analytical Plan (SAP) describing field tasks required to compete the Supply and Discharge Conduit assessment located at Aerator No. 2, Kensico, New York. The SAP outlined field activities, laboratory analyses, and control and disposal of contaminated materials.

- **NYC Transit Authority: Kingsbridge – Phase II.** Conducted a Phase II investigation of a vehicle storage lot to be acquired by NYC Transit. Prepared a Field Work Plan, over-sighted the direct push contractor, collected subsurface soil and groundwater samples, and validated analytical data. Assisted with preparation of findings report that summarized field observations and compared detected contaminant concentrations to state regulatory standards.

- **Puerto Rico Aqueduct and Sewer Authority: Title V Services for 14 Facilities / PR.** Performed data validation, evaluation, and usability analysis of laboratory generated data analyses submitted from sample collection of 12 wastewater treatment plants, 2 water treatment plants, and 2 maintenance facilities owned by the Authority. The data were used to evaluate the applicability of Title V regulations to each facility (major and nonmajor source status). In addition, performed an on-site visit to laboratory facility in San Juan, PR to resolve laboratory data issues.

- **Mississippi Department of Environmental Quality.** Responsible for evaluating Bacteriological data generated from sampling conducted at Targeted Pathogen TMDL Locations in the Pearl River and South Independent Stream Basins. Data assessment consisted of precision measurements and statistical examination of fecal coliform data.

- **USACE, Baltimore District: Remedial Investigation at the Skaneateles Weekend Training Site for the 77th Regional Support Command:** Served as site chemist performing laboratory coordination, site sampling, and data validation for activities related to historical release from gasoline underground storage tanks.

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845-855-9007
845-855-3636

DETAILED EXPERIENCE (Continued)

- **USACE, Baltimore District: Remedial Investigation/Remedial Design, Hancock Field Army Complex:** Coordinated and assisted with soil, surface water, and groundwater field investigations. Performed data validation and data usability reports, and, prepared final investigation reports.

- **USACE, Baltimore District: Sampling and Analysis at Fort Drum:** Responsible for data validation of analytical data from sampling of soil, groundwater, sediment, pure product, dust, and paint chips. Data validation was performed in accordance with USEPA National Functional Guidelines with Region II modifications and adapted to NYS analytical protocols and SW-846 methodologies.

- **USACE, Fort Worth District: Fort Wingate Depot: Soil Background Investigation:** Served as site chemist for an investigation of background concentrations of 30 constituents in the surface soil at a 22,000-acre former munitions storage facility. Prepared Chemical Data Acquisition Plan, performed data validation of over 100 samples (total metals, total phosphorus, nitrate/nitrite, total kjeldahl nitrogen, ammonia-nitrogen, sulfate, and pH), and prepared the Quality Control Summary Report of that investigation. In addition, provided support regarding usability of the data to the USACE statistician.

- **USACE, Fort Worth District: Lone Star Army Ammunition Plant, G and O Pond Units – Affected Property Assessment:** Served as site chemist for a RCRA facility investigation to further characterize the G and O Pond Units. Prepared Chemical Data Acquisition Plan, performed data validation of over 200 samples (total recoverable metals, total metals, SPLP metals, cyanide, hexavalent chromium, TOC, TOX, phenols, explosives, volatiles, semivolatiles, nitrate, nitrite, sulfate, and chloride), and prepared the Quality Control Summary Report of that investigation.

- **USACE, Kansas City District: Brewster Wellfield Superfund Site: Groundwater Treatment and Design:** Performed a bench-scale study of viable treatability technology for groundwater softening. The study included the use of raw groundwater from the site in order to set up the bench-scale process. Rigorous sampling was conducted and field kits were used to assess design parameters.

- **USACE, Kansas City District: Sampling and Analysis at Fort Drum:** Project leader for a responsive sampling and analysis services project. The work consisted of: Proposal preparation for numerous sampling assignments; Coordination of field sampling personnel and analytical laboratory; Collection of samples for evaluation under RCRA and New York State guidelines for hazardous waste; and Analysis of chemical data and report preparation.

- **USACE, Omaha District: Former Glasgow Air Force Base: Remedial Investigation:** Evaluated analytical data collected during remedial activities at 16 former tank sites to evaluate the aerial and vertical extent of contaminated soils and groundwater, resulting from past use of the underground and aboveground storage tanks at the former tank locations. Performed data validation and usability summaries and prepared a Quality Control Summary Report for the USACE.

- **USEPA, Region 2: Franklin Burns Superfund Site:** During the RI/FS, evaluated dioxin-furan groundwater data.

35 Pawling Lake
Pawling, NY 12564
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845-855-3636

DETAILED EXPERIENCE (Continued)

- **USEPA, Region 2: White Chemical Corporation Superfund Site:** During the RI/FS, evaluated dioxin-furan data.

- **USEPA, Region 2: ARCS Preremedial Program:** Compilation of the information/data gathered into a sire inspection prioritization (SIP) report for submittal to the USEPA. A recommendation was provided based on existing data stating whether the site needed further investigation.

- **USEPA, Region 2: ARCS Preremedial Program:** Performance of sampling activities which included the collection of surface soil samples to determine the absence or presence of contamination on-site.

- **USEPA, Syosset Landfill TMA Investigation:** On this controversial project, evaluated data to identify whether trimellitic anhydride (TMA) was being emitted from the Syosset Landfill, a former Superfund Site, and poisoning local residents. Worked with the EPA and OSHA to develop a modified protocol which could detect TMA at low levels. Assisted in the report preparation process.

- **City Of White Plains: Drum Investigation Activities:** Responsible for the following: define data quality objectives, procurement of certified laboratory, drum sampling, data validation and usability of analytical data, and preparation of final Report of Findings including recommendations to the NYSDEC.

- **City Of White Plains: Drum Removal Activities:** Removal of over 45 hazardous and non-hazardous drums. As task leader, responsible for the following: define data quality objectives, procurement of certified laboratory, prepared specifications for drum removal and soil removal activities, provided oversight of all field activities, pre and post excavation sampling, data validation and usability of analytical data, and preparation of final Report of Findings to the NYSDEC.

- **Central Contra Costa Sanitary District (CCCSD):** Cyanide Assessment: Served as chemist to evaluate and address cyanide analytical methods and concentrations within CCCSD's WWTP.

- **Cytec Industries: NPDES Permit Issues:** Evaluated usability of analytical laboratory data in accordance with the methods performed.

- **Stone & Webster Environmental Technology and Services: FUSRAP Maywood Superfund Site, PDI Work Plan: Preliminary Design Investigation Work Plan:** Twenty-four commercial and government properties, which potentially contained deposits of radioactive residues and/or hazardous chemicals in surface and subsurface soil. The PDI plan was developed to identify all data gaps and summarize the field activities necessary to acquire the additional information necessary to complete the remedial design action for each property. Site-specific information, including civil/property surveys, foundation designs, underground utilities, safety and logistical issues were examined. Radiological, chemical, geotechnical, and design gaps were identified. Properties were grouped into clusters and maps were prepared. To fill data gaps, specific methods and quantities of predesign data collection activities were developed for each cluster. Performed an RPD comparison study measuring reproducibility between the on-site and offsite laboratory data.

- **New York City Department of Environmental Protection: Newtown Creek Water Pollution Control Plant Upgrade: Aquifer Pumping Tests:** Evaluated data collected from a series of aquifer pumping tests which were conducted at the former Exxon, Mobil, and Williamburg Steel sites.

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Pawling, NY 12564
845-855-9007
845-855-3636

DETAILED EXPERIENCE (Continued)

- **USACE, Kansas City District: Fried Industries Superfund Site – Remedial Design Investigation and Conceptual Design:** Evaluated soil and groundwater data collected from areas of concern.

1994 EA Engineering, Science, and Technology

As Scientist II:

- **USACE, Baltimore District, Fort Drum NY (Gasoline Alley):** Responsible for preparation of Chemical Data Acquisition Plan in accordance with the USCOE's technical guidelines.
- **USACE, Kansas City District, Ellsworth Air Force Base NE:** Responsible for validating organic, inorganic, and miscellaneous analyses using the National Functional Guidelines for Organic and Inorganic Data Review.
- **USACE, Baltimore District, Fort Drum NY:** As field chemist, provided support during on-site investigation. Responsible for on-site laboratory setup, maintenance and troubleshooting, sample analysis, sample reporting, and data review and interpretation.
- **Idaho National Environmental Laboratory:** Responsible for preparing in-house data validation guidelines for polychlorinated dibenzo-p-dioxin (PCDD) and dibenzofuran (PCDF) analyses.

1990-1993 Pace, Inc.

- **As Gas Chromatography/Mass Spectrometry (GC/MS) Supervisor:** Provided technical training and support in areas of troubleshooting, data review, and spectral interpretation.
- **As GC/MS Volatile/Semivolatile Analyst:** Performed a wide spectrum of volatile and semivolatile analyses using state-of-the-art analytical instrumentation.

November 1987-March 1990 Nanco Environmental Services, Inc.

- **As Metals Analyst:** Performed analysis of heavy metals for diverse sample types including drinking water, groundwater, core samples, and soil samples.

June-November 1987 Institute of Ecosystem Studies
The New York Botanical Garden

- **As Research Assistant I:** Responsible for inorganic analysis of on-going acid rain study conducted on the Hubbard Brook Ecosystem samples using a wide range of analytical equipment.

35 Pawling Lake
Pawling, NY 12564
845-855-9007
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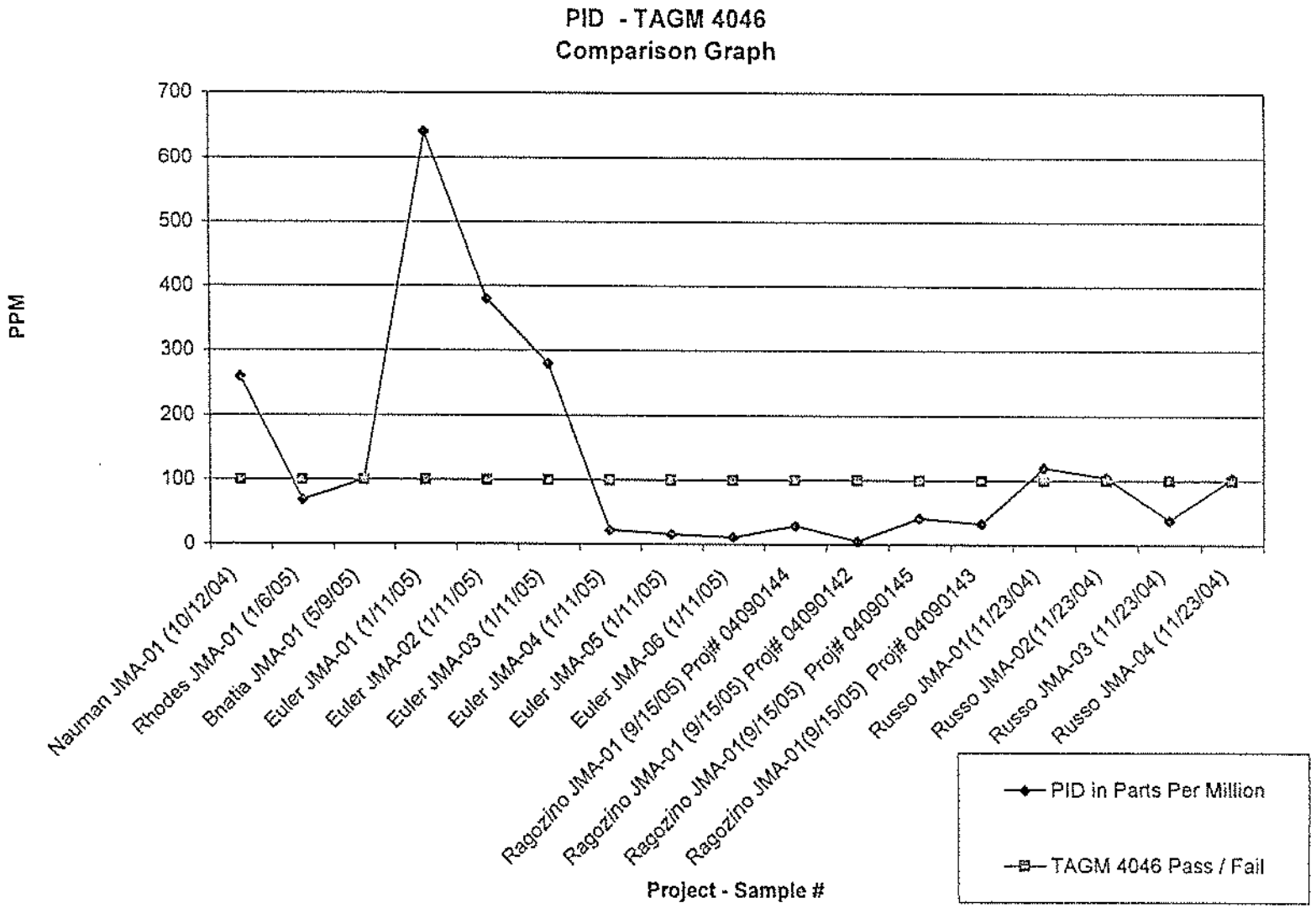
APPENDIX C

PID Calibration Data


PID - TAGM 4046
Comparison Graph
PPM
700
600
500
400
300
200
100
0
Nauman JMA-01 (10/12/04)
Rhodes JMA-01 (1/6/05)
Bhatia JMA-01 (5/9/05)
Euler JMA-01 (1/11/05)
Euler JMA-02 (1/11/05)
Euler JMA-03 (1/11/05)
Euler JMA-04 (1/11/05)
Euler JMA-05 (1/11/05)
Euler JMA-06 (1/11/05)
Ragozino JMA-01 (9/15/05) Proj# 04090144
Ragozino JMA-01 (9/15/05) Proj# 04090142
Ragozino JMA-01(9/15/05) Proj# 04090145
Ragozino JMA-01(9/15/05) Proj# 04090143
Russo JMA-01(11/23/04)
Russo JMA-02(11/23/04)
Russo JMA-03 (11/23/04)
Russo JMA-04 (11/23/04)
Project - Sample #
PID in Parts Per Million
TAGM 4046 Pass / Fail

The data on the following pages support that the PID can be used to indicate the levels of soil contamination at the site. Sets of analytical data are included, which show that PID readings of less than 100 ppm correlate with analytical results below TAGM objectives. These datasets used to make this correlation are listed on the Comparison Chart that precedes the laboratory reports.

Additional analytical reports for soil samples taken from the site show that the laboratory sampling results with PID readings below 100 ppm have all met TAGM Recommended Soil Cleanup Levels.

JM Associates, INc.
225 Railroad Avenue
Bedford Hills, NY 10507

PID Levels - TAGM 4046
Comparison Chart
(Various Sites)

Project ID	*Sample # (Date)*	*PID*	*TAGM 4046 Pass/Fail*
Nauman	JMA-01 (10/12/04)	260 ppm	Fail
Rhodes	JMA-01 (1/6/05)	70 ppm	Pass
Bnatia	JMA-01 (5/9/05)	101 ppm	Fail
Euler	JMA-01 (1/11/05)	640 ppm	Fail
Euler	JMA-02 (1/11/05)	380 ppm	Fail
Euler	JMA-03 (1/11/05)	280 ppm	Fail
Euler	JMA-04 (1/11/05)	23 ppm	Pass
Euler	JMA-05 (1/11/05)	16 ppm	Pass
Euler	JMA-06 (1/11/05)	11.5 ppm	Pass
Ragozino	JMA-01 (9/15/05) Proj# 04090144	1-30 ppm	Pass
Ragozino	JMA-01 (9/15/05) Proj# 04090142	1-5.6 ppm	Pass
Ragozino	JMA-01(9/15/05) Proj# 04090145	1-42 ppm	Pass
Ragozino	JMA-01(9/15/05) Proj# 04090143	34 ppm	Pass
Russo	JMA-01(11/23/04)	120 ppm	Fail
Russo	JMA-02(11/23/04)	105 ppm	Fail
Russo	JMA-03 (11/23/04)	40 ppm	Pass
Russo	JMA-04 (11/23/04)	104 ppm	Pass

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 10/12/2004
Re: Client Project ID: Naumann
York Project No.: 04100094

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 NJ License No. CT401

nelac nelap

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 10/12/2004
Client Project ID: Naumann
York Project No.: 04100094

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 10/05/04. The project was identifed as your project "Naumann ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			JMA-01	
York Sample ID			04100094-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			11000	100
1,3,5-Trimethylbenzene			290	100
Benzene			Not detected	100
Ethylbenzene			660	100
Isopropylbenzene			590	100
Naphthalene			13000	100
n-Butylbenzene			1900	100
n-Propylbenzene			810	100
o-Xylene			2100	200
p- & m-Xylenes			3300	200
p-Isopropyltoluene			720	100
sec-Butylbenzene			590	100
tert-Butylbenzene			Not detected	100
Toluene			340	100
Total Xylenes			5400	200

YORK

Client Sample ID			JMA-01	
York Sample ID			04100094-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			1500	480
Anthracene			Not detected	320
Benzo[a]anthracene			Not detected	460
Benzo[a]pyrene			Not detected	480
Benzo[b]fluoranthene			Not detected	380
Benzo[g,h,i]perylene			Not detected	550
Benzo[k]fluoranthene			Not detected	910
Chrysene			Not detected	450
Dibenz[a,h]anthracene			Not detected	470
Fluoranthene			Not detected	410
Fluorene			2600	600
Indeno[1,2,3-cd]pyrene			Not detected	540
Naphthalene			6100	380
Phenanthrene			6000	450
Pyrene			880	560

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 04100094

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 10/12/2004

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

04100004

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
JM Associates, Inc.		→	Naumann (1486 Old Logging Rd. Yorktown Heights, NY)	JM Manfredi / John Manfredi

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
JMA-01	North Base by Electric 260 ppm	10/4/04		X			8270 + 8021 as per STARS Table #2	8oz.

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	10/5/04 1130
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time
		Sample Received by	10/5/04
		LAB	10:52:40

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 1/6/2005
Re: Client Project ID: Rhodes
York Project No.: 05010037

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 NJ License No. CT401

nelac nelap

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 1/6/2005
Client Project ID: Rhodes
York Project No.: 05010037

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custod received in our laboratory on 01/04/05. The project was identifed as your project "Rhodes ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detaile in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which i explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			JMA1		JMA2	
York Sample ID			05010037-01		05010037-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	Not detected	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
Total Xylenes			Not detected	10	Not detected	10

YORK

Client Sample ID			JMA1		JMA2	
York Sample ID			05010037-01		05010037-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	48	Not detected	48
Anthracene			32	32	Not detected	32
Benzo[a]anthracene			Not detected	46	Not detected	46
Benzo[a]pyrene			Not detected	48	Not detected	48
Benzo[b]fluoranthene			Not detected	38	Not detected	38
Benzo[g,h,i]perylene			Not detected	55	Not detected	55
Benzo[k]fluoranthene			Not detected	91	Not detected	91
Chrysene			Not detected	45	Not detected	45
Dibenz[a,h]anthracene			Not detected	47	Not detected	47
Fluoranthene			Not detected	41	Not detected	41
Fluorene			Not detected	60	Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54	Not detected	54
Naphthalene			61	38	Not detected	38
Phenanthrene			180	45	Not detected	45
Pyrene			Not detected	56	Not detected	56

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05010037

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 1/6/2005
Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

05010037

Company Name	Report To:	Invoice To:	Project ID/No.
JM Associates, Inc			Rhodes

Samples Collected By (Signature)

Emilio Garcia
Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
JMA 1	Center of remediated area 14'-16' PID = 70ppm	1/3/05		X			8021 & 8270 as per STARS tbl 2	8 oz glass
JMA 2	24'-26' no groundwater PID = 0ppm	1/3/05		X			" "	" "

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	1/3/05 11:20pm	Sample Received by	1/4/05 10:45
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	4.5°C Date/Time

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 5/9/2005
Re: Client Project ID: Bnatia
York Project No.: 05050153

CT License No. PH-0723 New York License No. 10854

nelac nelap

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 5/9/2005
Client Project ID: Bnatia
York Project No.: 05050153

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custod received in our laboratory on 05/04/05. The project was identifed as your project "Bnatia ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detaile in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			N/W Corner-Near Ledge (101 on		Southwall Near Base	
York Sample ID			05050153-01		05050153-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			2400	1	Not detected	5.0
1,3,5-Trimethylbenzene			570	1	Not detected	5.0
Benzene			Not detected	1	Not detected	5.0
Ethylbenzene			43	1	Not detected	5.0
Isopropylbenzene			170	1	Not detected	5.0
Naphthalene			7300	1	Not detected	5.0
n-Butylbenzene			800	1	Not detected	5.0
n-Propylbenzene			300	1	Not detected	5.0
o-Xylene			170	2	Not detected	10
p- & m-Xylenes			170	2	Not detected	10
p-Isopropyltoluene			460	1	Not detected	5.0
sec-Butylbenzene			700	1	Not detected	5.0
tert-Butylbenzene			Not detected	1	Not detected	5.0
Toluene			Not detected	1	Not detected	5.0

YORK

Client Sample ID			N/W Corner-Near Ledge (101 on		Southwall Near Base	
York Sample ID			05050153-01		05050153-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Xylenes			340	2	Not detected	10
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			1300	240	Not detected	48
Anthracene			750	160	40	32
Benzo[a]anthracene			Not detected	230	120	46
Benzo[a]pyrene			Not detected	240	61	48
Benzo[b]fluoranthene			Not detected	190	59	38
Benzo[g,h,i]perylene			Not detected	280	Not detected	55
Benzo[k]fluoranthene			Not detected	460	92	91
Chrysene			Not detected	230	85	45
Dibenz[a,h]anthracene			Not detected	240	Not detected	47
Fluoranthene			360	210	240	41
Fluorene			2300	300	Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	270	Not detected	54
Naphthalene			4400	190	Not detected	38
Phenanthrene			5400	230	190	45
Pyrene			1500	280	200	56

Client Sample ID			S/W Wall Comp. Near Base	
York Sample ID			05050153-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
Benzene			Not detected	5.0
Ethylbenzene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Toluene			Not detected	5.0
Total Xylenes			Not detected	10
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	48
Anthracene			Not detected	32
Benzo[a]anthracene			Not detected	46
Benzo[a]pyrene			Not detected	48
Benzo[b]fluoranthene			Not detected	38
Benzo[g,h,i]perylene			Not detected	55
Benzo[k]fluoranthene			Not detected	91
Chrysene			Not detected	45
Dibenz[a,h]anthracene			Not detected	47

YORK

Client Sample ID			S/W Wall Comp. Near Base	
York Sample ID			05050153-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Fluoranthene			Not detected	41
Fluorene			Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54
Naphthalene			Not detected	38
Phenanthrene			Not detected	45
Pyrene			Not detected	56

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05050153

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 5/9/2005

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 1

05050053

Company Name	Report To:	Invoice To:	Project ID/No.	
JM ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES, INC.	Bhatia	Samples Collected By (Signature) / Chris Slagle Name (Printed)

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
JMA-01	N/W Corner - Near Ledge - (101 on P.D)	5/3/05		X			8021/8270 cm plus STARS table #2	8 oz.
JMA-02	Southwall Near Base	5/3/05		X			8021/8270 cm plus STARS (fail) ?	8oz
JMA-03	(S/W) Southwall comp. Near Base	5/3/05		X			8021/8270 cmpl STARS #2	8oz

Chain-of-Custody Record

Bottles Relinquished From Lab by	Date/Time	Sample Relinquished by: Chris Slagle	Date/Time: 5/3/05
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time
Sample Received by	Date/Time	Sample Received in LAB by	Date/Time

Comments/Special Instructions

Turn-Around Time (5 - Day)
X Standard ___ RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 1/11/2005
Re: Client Project ID: Euler
York Project No.: 05010036

CT License No. PH-0723 New York License No. 10854 Mass License No. M-CT106 Rhode Island License No. 93 NJ License No. CT401

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 1/11/2005
Client Project ID: Euler
York Project No.: 05010036

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 01/04/05. The project was identifed as your project "Euler ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

PID GRO

Client Sample ID			JMA1		JMA2	
York Sample ID			05010036-01		05010036-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			290000	1000	130000	200
1,3,5-Trimethylbenzene			81000	1000	38000	200
Benzene			3400	1000	840	200
Ethylbenzene			56000	1000	21000	200
Isopropylbenzene			15000	1000	6500	200
Naphthalene			330000	1000	140000	200
n-Butylbenzene			68000	1000	23000	200
n-Propylbenzene			41000	1000	16000	200
o-Xylene			110000	2000	44000	400
p- & m-Xylenes			230000	2000	94000	400
p-Isopropyltoluene			20000	1000	8900	200
sec-Butylbenzene			23000	1000	9100	200
tert-Butylbenzene			Not detected	1000	Not detected	200
Toluene			88000	1000	29000	200
Total Xylenes			340000	2000	138000	400

YORK

Client Sample ID			JMA1		JMA2	
York Sample ID			05010036-01		05010036-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			70000	24000	34000	6000
Anthracene			48000	16000	16000	4000
Benzo[a]anthracene			Not detected	23000	Not detected	5800
Benzo[a]pyrene			Not detected	24000	Not detected	6000
Benzo[b]fluoranthene			Not detected	19000	Not detected	4800
Benzo[g,h,i]perylene			Not detected	28000	Not detected	6900
Benzo[k]fluoranthene			Not detected	46000	Not detected	11000
Chrysene			Not detected	23000	Not detected	5600
Dibenz[a,h]anthracene			Not detected	24000	Not detected	5900
Fluoranthene			Not detected	21000	6700	5100
Fluorene			120000	30000	52000	7500
Indeno[1,2,3-cd]pyrene			Not detected	27000	Not detected	6800
Naphthalene			370000	19000	150000	4800
Phenanthrene			300000	23000	110000	5600
Pyrene			54000	28000	29000	7000

250 25

Client Sample ID			JMA3		JMA4	
York Sample ID			05010036-03		05010036-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			6000	25	Not detected	5.0
1,3,5-Trimethylbenzene			2300	25	Not detected	5.0
Benzene			Not detected	25	Not detected	5.0
Ethylbenzene			470	25	Not detected	5.0
Isopropylbenzene			250	25	Not detected	5.0
Naphthalene			13000	25	Not detected	5.0
n-Butylbenzene			1600	25	Not detected	5.0
n-Propylbenzene			620	25	Not detected	5.0
o-Xylene			(1500)	50	Not detected	10
p- & m-Xylenes			(1900	50	Not detected	10
p-Isopropyltoluene			610	25	Not detected	5.0
sec-Butylbenzene			540	25	Not detected	5.0
tert-Butylbenzene			Not detected	25	Not detected	5.0
Toluene			74	25	Not detected	5.0
Total Xylenes			(3400)	50	Not detected	10
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			660	240	Not detected	48
Anthracene			390	160	Not detected	32
Benzo[a]anthracene			Not detected	230	Not detected	46
Benzo[a]pyrene			Not detected	240	Not detected	48
Benzo[b]fluoranthene			Not detected	190	Not detected	38
Benzo[g,h,i]perylene			Not detected	280	Not detected	55
Benzo[k]fluoranthene			Not detected	460	Not detected	91
Chrysene			Not detected	230	Not detected	45
Dibenz[a,h]anthracene			Not detected	240	Not detected	47
Fluoranthene			Not detected	210	Not detected	41
Fluorene			1100	300	Not detected	60

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Client Sample ID			JMA3		JMA4	
York Sample ID			05010036-03		05010036-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Indeno[1,2,3-cd]pyrene			Not detected	270	Not detected	54
Naphthalene			2200	190	86	38
Phenanthrene			2700	230	97	45
Pyrene			610	280	Not detected	56

Client Sample ID			JMA5		JMA6	
York Sample ID			05010036-05		05010036-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			23	5.0	Not detected	5.0
1,3,5-Trimethylbenzene			5	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0
Naphthalene			58	5.0	Not detected	5.0
n-Butylbenzene			6	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
Total Xylenes			Not detected	10	Not detected	10
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	48	Not detected	48
Anthracene			Not detected	32	Not detected	32
Benzo[a]anthracene			Not detected	46	Not detected	46
Benzo[a]pyrene			Not detected	48	Not detected	48
Benzo[b]fluoranthene			Not detected	38	Not detected	38
Benzo[g,h,i]perylene			Not detected	55	Not detected	55
Benzo[k]fluoranthene			Not detected	91	Not detected	91
Chrysene			Not detected	45	Not detected	45
Dibenz[a,h]anthracene			Not detected	47	Not detected	47
Fluoranthene			Not detected	41	Not detected	41
Fluorene			Not detected	60	Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54	Not detected	54
Naphthalene			Not detected	38	45	38
Phenanthrene			Not detected	45	Not detected	45
Pyrene			Not detected	56	Not detected	56

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Notes for York Project No. 05010036

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 1/11/2005
Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
One Research Drive
Stamford, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

0501 0036

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
JM Associates, Inc.	→	→	Euler	Emilio Garcia

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
JMA 1	X1 PID=640 ppm	1/3/05		X			8021 & 8270 as per STARS tbl #2	8oz glass
JMA 2	X2 PID=380ppm	1/3/05		X			↓	↓
JMA 3	X3 PID=280ppm	↓		↓				
JMA 4	X4 PID=93 ppm							
JMA 5	X7 PID=16 ppm							
JMA 6	X9 PID=11.5ppm	↓		↓			↓	↓

Chain-of-Custody Record

	Date/Time		Date/Time		Date/Time
Bottles Relinquished from Lab by		Sample Relinquished by	1/3/05 11:30pm	Sample Received by	1/4/05
Bottles Received in Field by		Sample Relinquished by		Sample Received in LAB by	4.5C

Comments/Special Instructions

Turn-Around Time
X Standard RUSH(define)

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 9/15/2004
Re: Client Project ID: Ragozino
York Project No.: 04090144

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT806 Rhode Island License No. 93 NJ License No. CT001

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 9/15/2004
Client Project ID: Ragozino
York Project No.: 04090144

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/07/04. The project was identifed as your project "Ragozino ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			1-30PPM	
York Sample ID			04090144-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
Benzene			Not detected	5.0
Ethylbenzene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Toluene			Not detected	5.0
Total Xylenes			Not detected	10

YORK

Client Sample ID			1-30PPM	
York Sample ID			04090144-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	96
Anthracene			Not detected	64
Benzo[a]anthracene			Not detected	92
Benzo[a]pyrene			Not detected	96
Benzo[b]fluoranthene			Not detected	76
Benzo[g,h,i]perylene			Not detected	110
Benzo[k]fluoraothene			Not detected	180
Chrysene			Not detected	90
Dibenz[a,h]anthracene			Not detected	94
Fluoranthene			Not detected	82
Fluorene			Not detected	120
Indeno[1,2,3-cd]pyrene			Not detected	110
Naphthalene			Not detected	76
Phenanthrene			Not detected	90
Pyrene			140	110

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 04090144

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 9/15/2004

YORK

0409044

YORK

ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ___

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
JM ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	RAGOZINO	J. MANFREDI

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
1-30 PPM	TRENCH UNDER FOOD & RAISIN LINE	9/2/04		X			8021 + 8270 as per STARS Table #2	8 OZ
	FROM NEST UNDER DECK TO POOL							
	HEATER							

Chain-of-Custody Record

Bottles Relinquished From Lab by ___ Date/Time ___

Bottles Received in Field by ___ Date/Time ___

Sample Relinquished by ___ Date/Time ___

Sample Relinquished by ___ Date/Time ___

Sample Received by ___ Date/Time 9/7 7:00

Sample Received in LAB by ___ Date/Time 9/7 4PM 1.3C

Comments/Special Instructions

Turn-Around Time
✓ Standard ___ RUSH (define) ___

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 9/15/2004
Re: Client Project ID: Ragozino
York Project No.: 04090142

CT License No. PH-0223 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 NJ License No. CT401

nelac nelap

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 9/15/2004
Client Project ID: Ragozino
York Project No.: 04090142

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/07/04. The project was identifed as your project "Ragozino ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			1-516PPM	
York Sample ID			04090142-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
Benzene			Not detected	5.0
Ethylbenzene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Toluene			Not detected	5.0
Total Xylenes			Not detected	10

YORK

Client Sample ID			1-516PPM	
York Sample ID			04090142-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	48
Anthracene			Not detected	32
Benzo[a]anthracene			Not detected	46
Benzo[a]pyrene			Not detected	48
Benzo[b]fluoranthene			Not detected	38
Benzo[g,h,i]perylene			Not detected	55
Benzo[k]fluoranthene			Not detected	91
Chrysene			Not detected	45
Dibenz[a,h]anthracene			Not detected	47
Fluoranthene			Not detected	41
Fluorene			Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54
Naphthalene			Not detected	38
Phenanthrene			Not detected	45
Pyrene			Not detected	56

Units Key: For Water/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 04090142

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 9/15/2004
Robert Q. Bradley
Managing Director

YORK

04040142

YORK

ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ___

Company Name	Report To:	Invoice To:	Project ID/No.	
JM ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	RAGOZINO	Samples Collected By (Signature): J. MANFREDI (Name Printed)

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
1-5.6 PPM	TRENCH UNDER FEED & RETURN LINE	9/2/04		X			8021 + 8270 as per STARS Table #2	8 oz.
	FROM DIST UNDER DECK TO POOL							
	HEATER							

Chain-of-Custody Record

Bottles Relinquished From Lab by / Date/Time	Sample Relinquished by / Date/Time	Sample Received by / Date/Time 9/7 0959
Bottles Received in Field by / Date/Time	Sample Relinquished by / Date/Time	Sample Received in LAB by / Date/Time 9/7 1424.3C

Comments/Special Instructions

Turn-Around Time
X Standard ___ RUSH(define)___

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 9/15/2004
Re: Client Project ID: Ragozino
York Project No.: 04090145

CT License No. PH-0721 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 NJ License No. CT401

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 9/13/2004
Client Project ID: Ragozino
York Project No.: 04090145

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/07/04. The project was identifed as your project "Ragozino ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			1-42PPM	
York Sample ID			04090145-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
Benzene			Not detected	5.0
Ethylbenzene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Toluene			Not detected	5.0
Total Xylenes			Not detected	10

YORK

York Sample ID			04090145-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	240
Anthracene			Not detected	160
Benzo[a]anthracene			Not detected	230
Benzo[a]pyrene			Not detected	240
Benzo[b]fluoranthene			Not detected	190
Benzo[g,h,i]perylene			Not detected	280
Benzo[k]fluoranthene			Not detected	460
Chrysene			Not detected	230
Dibenz[a,h]anthracene			Not detected	240
Fluoranthene			Not detected	210
Fluorene			Not detected	300
Indeno[1,2,3-cd]pyrene			Not detected	270
Naphthalene			Not detected	190
Phenanthrene			Not detected	230
Pyrene			Not detected	280

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 04090145

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 9/15/2004

YORK

0-J9011

YORK

ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ___

Company Name	Report To:	Invoice To:	Project ID/No.
J.M ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	RAGOZINO

Samples Collected By (Signature): [signature]
J. MANFREDI
Name (Printed)

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
1 - 4 ffm	TRENCH UNDER FOOD RUNNER LINE	9/2/04		X			8021 + 8270 as per STARS Table #2	8 oz
	FROM MAST UNDER DECK TO POOL							
	HEATER							

Chain-of-Custody Record

Bottles Relinquished From Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time

Comments/Special Instructions

Turn-Around Time
_✓_ Standard ___ RUSH (define)

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 9/15/2004
Re: Client Project ID: Ragozino
York Project No.: 04090143

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 NJ License No. CT401

nelac nelap

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 9/15/2004
Client Project ID: Ragozino
York Project No.: 04090143

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/07/04. The project was identifed as your project "Ragozino ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			1-34-22PPM	
York Sample ID			04090143-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
Benzene			Not detected	5.0
Ethylbenzene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Naphthalene			23	5.0
n-Butylbenzene			18	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Toluene			Not detected	5.0
Total Xylenes			Not detected	10

YORK

Client Sample ID			Water Side of Dike	
York Sample ID			04110466-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	240
Anthracene			630	160
Benzo[a]anthracene			1800	230
Benzo[a]pyrene			2100	240
Benzo[b]fluoranthene			1900	190
Benzo[g,h,i]perylene			Not detected	280
Benzo[k]fluoranthene			2700	460
Chrysene			1700	230
Dibenz[a,h]anthracene			Not detected	240
Fluoranthene			4600	210
Fluorene			340	300
Indeno[1,2,3-cd]pyrene			Not detected	270
Naphthalene			Not detected	190
Phenanthrene			2700	230
Pyrene			4500	280

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 04110466

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 11/23/2004

YORK

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ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ____

04110466

Company Name	Report To:	Invoice To:	Project ID/No.
ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	Russo

Samples Collected By (Signature): J. Manfredi
Name (Printed): J.Manfredi

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
1	WATER SIDE of DUCK Pid 110ppm	11/14/04		X			8021 + 8270 as per STARS	8 oz

Chain-of-Custody Record

Samples Relinquished From Lab by ____ Date/Time ____

Samples Received in Field by ____ Date/Time ____

Sample Relinquished by: J. Manfredi 11/17/04 Date/Time

Sample Relinquished by ____ Date/Time ____

Sample Received by ____ 11/17/04 Date/Time

Sample Received in LAB by ____ 11-17-04/1530 Date/Time

Comments/Special Instructions

4.4°C

Turn-Around Time
X Standard 5 days RUSH (days)

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 11/23/2004
Re: Client Project ID: Russo
York Project No.: 04110467

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 NJ License No. CT-001

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 11/23/2004
Client Project ID: Russo
York Project No.: 04110467

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 11/17/04. The project was identifed as your project "Russo ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			JMA-01		JMA-02	
York Sample ID			04110467-01		04110467-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			6	5.0	5	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0
Methyl-tert-butyl ether (MTBE)			Not detected	5.0	Not detected	5.0
Naphthalene			9	5.0	Not detected	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
Total Xylenes			Not detected	10	Not detected	10

YORK

Client Sample ID			JMA-01		JMA-02	
York Sample ID			04110467-01		04110467-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	96	Not detected	240
Anthracene			210	64	Not detected	160
Benzo[a]anthracene			330	92	Not detected	230
Benzo[a]pyrene			640	96	390	240
Benzo[b]fluoranthene			410	76	230	190
Benzo[g,h,i]perylene			170	110	Not detected	280
Benzo[k]fluoranthene			780	180	480	460
Chrysene			770	90	440	230
Dibenz[a,h]anthracene			82	94	Not detected	240
Fluoranthene			1100	82	600	210
Fluorene			130	120	Not detected	300
Indeno[1,2,3-cd]pyrene			180	110	Not detected	270
Naphthalene			Not detected	76	Not detected	190
Phenanthrene			900	90	360	230
Pyrene			970	110	570	280

Client Sample ID			JMA-03		JMA-04	
York Sample ID			04110467-03		04110467-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5.0	22	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	5	5.0
Benzene			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0
Methyl-tert-butyl ether (MTBE)			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	9	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	10	11	10
p- & m-Xylenes			Not detected	10	19	10
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
Total Xylenes			Not detected	10	30	10
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	48	Not detected	48
Anthracene			Not detected	32	Not detected	32
Benzo[a]anthracene			Not detected	46	51	46
Benzo[a]pyrene			Not detected	48	85	48
Benzo[b]fluoranthene			Not detected	38	62	38
Benzo[g,h,i]perylene			Not detected	55	Not detected	55
Benzo[k]fluoranthene			Not detected	91	110	91
Chrysene			Not detected	45	130	45
Dibenz[a,h]anthracene			Not detected	47	Not detected	47
Fluoranthene			Not detected	41	160	41

YORK

Client Sample ID			JMA-03		JMA-04	
York Sample ID			04110467-03		04110467-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluorene			Not detected	60	Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54	Not detected	54
Naphthalene			Not detected	38	Not detected	38
Phenanthrene			Not detected	45	91	45
Pyrene			Not detected	56	150	56

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 04110467

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 11/23/2004

Robert Q. Bradley
Managing Director

YORK

ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 1

04110467.

Company Name	Report To:	Invoice To:	Project ID/No.
JM ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	Russo

Samples Collected By (Signature): J. Manfredi

Name (Printed): J.Manfredi

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
MA-01	ENTRANCE PID 120 ppm	11/15/04		X			8021 + 8270 as per STARS	8 oz
02	BASE (1) PID 105 ppm							
03	BASE 2 PID 40 ppm							
04	WALL COMPOSITE PID 104 ppm							

Chain-of-Custody Record

Bottles Relinquished From Lab by — Date/Time

Bottles Received in Field by — Date/Time

J. MANFREDI — Sample Relinquished by: J. Manfredi — 13:30 11/16/04 — Date/Time

Sample Relinquished by — Date/Time

Sample Received by — 11/17/04 — Date/Time

Sample Received in LAB by — 11-17-04/1530 — Date/Time

Comments/Special Instructions

1 day T.A.T.

Turn-Around Time

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 3/30/2005
Re: Client Project ID: 221 MAIN
York Project No.: 05030746

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 3/30/2005
Client Project ID: 221 MAIN
York Project No.: 05030746

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 03/24/05. The project was identifed as your project "221 MAIN ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0
1,2-Dibromoethane			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0

YORK

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,2-Dichloropropane			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,3-Dichloropropane			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
2,2-Dichloropropane			Not detected	5.0
2-Chlorotoluene			Not detected	5.0
4-Chlorotoluene			Not detected	5.0
Benzene			Not detected	5.0
Bromobenzene			Not detected	5.0
Bromochloromethane			Not detected	5.0
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	5.0
Carbon tetrachloride			Not detected	5.0
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	5.0
Chloroform			Not detected	5.0
Chloromethane			Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dibromomethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Ethylbenzene			Not detected	5.0
Hexachlorobutadiene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Methylene chloride			Not detected	5.0
MTBE			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	5.0
p- & m-Xylenes			Not detected	5.0
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
Styrene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Tetrachloroethylene			Not detected	5.0
Toluene			Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0
Trichloroethylene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
Vinyl chloride			Not detected	5.0
BNA-8270 List soil	SW846-8270C	ug/Kg	---	---
1,2,4-Trichlorobenzene			Not detected	50
1,2-Dichlorobenzene			Not detected	50
1,3-Dichlorobenzene			Not detected	50
1,4-Dichlorobenzene			Not detected	50
2,4,5-Trichlorophenol			Not detected	50
2,4,6-Trichlorophenol			Not detected	50
2,4-Dichlorophenol			Not detected	50

YORK

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2,4-Dimethylphenol			Not detected	50
2,4-Dinitrophenol			Not detected	50
2,4-Dinitrotoluene			Not detected	50
2,6-Dinitrotoluene			Not detected	50
2-Chloronaphthalene			Not detected	50
2-Chlorophenol			Not detected	50
2-Methylnaphthalene			Not detected	50
2-Methylphenol			Not detected	50
2-Nitroaniline			Not detected	50
2-Nitrophenol			Not detected	50
3,3'-Dichlorobenzidine			Not detected	50
3-Methylphenol			Not detected	50
3-Nitroaniline			Not detected	50
4,6-Dinitro-2-methylphenol			Not detected	50
4-Bromophenyl phenyl ether			Not detected	50
4-Chloro-3-methyl phenol			Not detected	50
4-Chloroaniline			Not detected	50
4-Chlorophenyl phenyl ether			Not detected	50
4-Methylphenol			Not detected	50
4-Nitroaniline			Not detected	50
4-Nitrophenol			Not detected	50
Acenaphthene			Not detected	50
Acenaphthylene			Not detected	50
Aniline			Not detected	50
Anthracene			Not detected	50
Benzidine			Not detected	50
Benzo(a)anthracene			100	50
Benzo(a)pyrene			Not detected	50
Benzo(b)fluoranthene			Not detected	50
Benzo(g,h,i)perylene			Not detected	50
Benzo(k)fluoranthene			Not detected	50
Benzyl alcohol			Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50
Bis(2-chloroethyl)ether			Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50
Bis(2-ethylhexyl)phthalate			Not detected	50
Butyl benzyl phthalate			Not detected	50
Chrysene			130	50
Dibenz(a,h)anthracene			Not detected	50
Dibenzofuran			Not detected	50
Diethylphthalate			Not detected	50
Dimethylphthalate			Not detected	50
Di-n-butylphthalate			Not detected	50
Di-n-octylphthalate			Not detected	50
Fluoranthene			230	50
Fluorene			Not detected	50
Hexachlorobenzene			Not detected	50
Hexachlorobutadiene			Not detected	50
Hexachlorocyclopentadiene			Not detected	50
Hexachloroethane			Not detected	50
Indeno(1,2,3-cd)pyrene			Not detected	50

YORK

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Isophorone			Not detected	50
Naphthalene			Not detected	50
Nitrobenzene			Not detected	50
N-Nitrosodi-n-propylamine			Not detected	50
N-Nitrosodiphenylamine			Not detected	50
Pentachlorophenol			Not detected	50
Phenanthrene			170	50
Phenol			Not detected	50
Pyrene			180	50
Pyridine			Not detected	50
Lead	SW846-6010	mg/kG	14.6	0.500

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05030746

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 3/30/2005

YORK

YORK

ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ____

D5070146

Company Name	Report To:	Invoice To:	Project ID/No.
JM ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	321 MAIN

Samples Collected By (Signature)

J. MANFREDI
Name (Printed)

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
1	BASE 12-15' NATURAL SOIL	3/23/05		X			SOIL + TCLP 8021 + 8270 ~~as per STARS Table #2~~	SOZ
	under old Theater area							

Chain-of-Custody Record

Bottles Relinquished From Lab by ____ Date/Time ____

Bottles Received In Field by ____ Date/Time ____

Sample Relinquished by ____ Date/Time 3/24

Sample Relinquished by ____ Date/Time ____

Wayne 3/24 1230
Sample Received by ____ Date/Time

3.2 4.5 24.0 C
Sample Received in LAB by ____ Date/Time

Comments/Special Instructions

Turn-Around Time
___ Standard ✓ RUSH(define) 3 DAYS

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

Confirmatory lab Soils of outgoing Natural fuel —

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 3/30/2005
Re: Client Project ID: 221 MAIN
York Project No.: 05030746

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 3/30/2005
Client Project ID: 221 MAIN
York Project No.: 05030746

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 03/24/05. The project was identifed as your project "221 MAIN ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0
1,2-Dibromoethane			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0

YORK

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,2-Dichloropropane			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,3-Dichloropropane			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
2,2-Dichloropropane			Not detected	5.0
2-Chlorotoluene			Not detected	5.0
4-Chlorotoluene			Not detected	5.0
Benzene			Not detected	5.0
Bromobenzene			Not detected	5.0
Bromochloromethane			Not detected	5.0
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	5.0
Carbon tetrachloride			Not detected	5.0
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	5.0
Chloroform			Not detected	5.0
Chloromethane			Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dibromomethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Ethylbenzene			Not detected	5.0
Hexachlorobutadiene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Methylene chloride			Not detected	5.0
MTBE			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	5.0
p- & m-Xylenes			Not detected	5.0
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
Styrene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Tetrachloroethylene			Not detected	5.0
Toluene			Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0
Trichloroethylene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
Vinyl chloride			Not detected	5.0
BNA-8270 List soil	SW846-8270C	ug/Kg	---	---
1,2,4-Trichlorobenzene			Not detected	50
1,2-Dichlorobenzene			Not detected	50
1,3-Dichlorobenzene			Not detected	50
1,4-Dichlorobenzene			Not detected	50
2,4,5-Trichlorophenol			Not detected	50
2,4,6-Trichlorophenol			Not detected	50
2,4-Dichlorophenol			Not detected	50

YORK

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2,4-Dimethylphenol			Not detected	50
2,4-Dinitrophenol			Not detected	50
2,4-Dinitrotoluene			Not detected	50
2,6-Dinitrotoluene			Not detected	50
2-Chloronaphthalene			Not detected	50
2-Chlorophenol			Not detected	50
2-Methylnaphthalene			Not detected	50
2-Methylphenol			Not detected	50
2-Nitroaniline			Not detected	50
2-Nitrophenol			Not detected	50
3,3'-Dichlorobenzidine			Not detected	50
3-Methylphenol			Not detected	50
3-Nitroaniline			Not detected	50
4,6-Dinitro-2-methylphenol			Not detected	50
4-Bromophenyl phenyl ether			Not detected	50
4-Chloro-3-methyl phenol			Not detected	50
4-Chloroaniline			Not detected	50
4-Chlorophenyl phenyl ether			Not detected	50
4-Methylphenol			Not detected	50
4-Nitroaniline			Not detected	50
4-Nitrophenol			Not detected	50
Acenaphthene			Not detected	50
Acenaphthylene			Not detected	50
Aniline			Not detected	50
Anthracene			Not detected	50
Benzidine			Not detected	50
Benzo(a)anthracene			100	50
Benzo(a)pyrene			Not detected	50
Benzo(b)fluoranthene			Not detected	50
Benzo(g,h,i)perylene			Not detected	50
Benzo(k)fluoranthene			Not detected	50
Benzyl alcohol			Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50
Bis(2-chloroethyl)ether			Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50
Bis(2-ethylhexyl)phthalate			Not detected	50
Butyl benzyl phthalate			Not detected	50
Chrysene			130	50
Dibenz(a,h)anthracene			Not detected	50
Dibenzofuran			Not detected	50
Diethylphthalate			Not detected	50
Dimethylphthalate			Not detected	50
Di-n-butylphthalate			Not detected	50
Di-n-octylphthalate			Not detected	50
Fluoranthene			230	50
Fluorene			Not detected	50
Hexachlorobenzene			Not detected	50
Hexachlorobutadiene			Not detected	50
Hexachlorocyclopentadiene			Not detected	50
Hexachloroethane			Not detected	50
Indeno(1,2,3-cd)pyrene			Not detected	50

YORK

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Isophorone			Not detected	50
Naphthalene			Not detected	50
Nitrobenzene			Not detected	50
N-Nitrosodi-n-propylamine			Not detected	50
N-Nitrosodiphenylamine			Not detected	50
Pentachlorophenol			Not detected	50
Phenanthrene			170	50
Phenol			Not detected	50
Pyrene			180	50
Pyridine			Not detected	50
Lead	SW846-6010	mg/kG	14.6	0.500

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05030746

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 3/30/2005
Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ___

D03701460

Company Name	Report To:	Invoice To:	Project ID/No.
JM ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	271 MAIN

Samples Collected By (Signature)

J. MANFREDI
Name (Printed)

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
1	BASE 12-15' NATURAL SOIL.	3/23/05		X			SOIL + TCLP 8021 + 8270 ~~as per STARS Table #2~~	8oz
	Landfill Chester area							

Chain-of-Custody Record

Bottles Relinquished From Lab by ___ Date/Time ___

Bottles Received In Field by ___ Date/Time ___

Sample Relinquished by ___ Date/Time 3/24

Sample Relinquished by ___ Date/Time ___

Wayne 3/24 1230
Sample Received by ___ Date/Time

3/24 5pm 1.0C
Sample Received in LAB by ___ Date/Time

Comments/Special Instructions

Turn-Around Time
___Standard ___RUSH(define) 3 DAYS

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 3/30/2005
Re: Client Project ID: 221 MAIN
York Project No.: 05030746

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 3/30/2005
Client Project ID: 221 MAIN
York Project No.: 05030746

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 03/24/05. The project was identifed as your project "221 MAIN ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0
1,2-Dibromoethane			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0

YORK

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,2-Dichloropropane			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,3-Dichloropropane			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
2,2-Dichloropropane			Not detected	5.0
2-Chlorotoluene			Not detected	5.0
4-Chlorotoluene			Not detected	5.0
Benzene			Not detected	5.0
Bromobenzene			Not detected	5.0
Bromochloromethane			Not detected	5.0
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	5.0
Carbon tetrachloride			Not detected	5.0
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	5.0
Chloroform			Not detected	5.0
Chloromethane			Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dibromomethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Ethylbenzene			Not detected	5.0
Hexachlorobutadiene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Methylene chloride			Not detected	5.0
MTBE			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	5.0
p- & m-Xylenes			Not detected	5.0
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
Styrene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Tetrachloroethylene			Not detected	5.0
Toluene			Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0
Trichloroethylene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
Vinyl chloride			Not detected	5.0
BNA-8270 List soil	SW846-8270C	ug/Kg	---	---
1,2,4-Trichlorobenzene			Not detected	50
1,2-Dichlorobenzene			Not detected	50
1,3-Dichlorobenzene			Not detected	50
1,4-Dichlorobenzene			Not detected	50
2,4,5-Trichlorophenol			Not detected	50
2,4,6-Trichlorophenol			Not detected	50
2,4-Dichlorophenol			Not detected	50

YORK

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2,4-Dimethylphenol			Not detected	50
2,4-Dinitrophenol			Not detected	50
2,4-Dinitrotoluene			Not detected	50
2,6-Dinitrotoluene			Not detected	50
2-Chloronaphthalene			Not detected	50
2-Chlorophenol			Not detected	50
2-Methylnaphthalene			Not detected	50
2-Methylphenol			Not detected	50
2-Nitroaniline			Not detected	50
2-Nitrophenol			Not detected	50
3,3'-Dichlorobenzidine			Not detected	50
3-Methylphenol			Not detected	50
3-Nitroaniline			Not detected	50
4,6-Dinitro-2-methylphenol			Not detected	50
4-Bromophenyl phenyl ether			Not detected	50
4-Chloro-3-methyl phenol			Not detected	50
4-Chloroaniline			Not detected	50
4-Chlorophenyl phenyl ether			Not detected	50
4-Methylphenol			Not detected	50
4-Nitroaniline			Not detected	50
4-Nitrophenol			Not detected	50
Acenaphthene			Not detected	50
Acenaphthylene			Not detected	50
Aniline			Not detected	50
Anthracene			Not detected	50
Benzidine			Not detected	50
Benzo(a)anthracene			100	50
Benzo(a)pyrene			Not detected	50
Benzo(b)fluoranthene			Not detected	50
Benzo(g,h,i)perylene			Not detected	50
Benzo(k)fluoranthene			Not detected	50
Benzyl alcohol			Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50
Bis(2-chloroethyl)ether			Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50
Bis(2-ethylhexyl)phthalate			Not detected	50
Butyl benzyl phthalate			Not detected	50
Chrysene			130	50
Dibenz(a,h)anthracene			Not detected	50
Dibenzofuran			Not detected	50
Diethylphthalate			Not detected	50
Dimethylphthalate			Not detected	50
Di-n-butylphthalate			Not detected	50
Di-n-octylphthalate			Not detected	50
Fluoranthene			230	50
Fluorene			Not detected	50
Hexachlorobenzene			Not detected	50
Hexachlorobutadiene			Not detected	50
Hexachlorocyclopentadiene			Not detected	50
Hexachloroethane			Not detected	50
Indeno(1,2,3-cd)pyrene			Not detected	50

YORK

Client Sample ID			Base 12-15' Natural Soil	
York Sample ID			05030746-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Isophorone			Not detected	50
Naphthalene			Not detected	50
Nitrobenzene			Not detected	50
N-Nitrosodi-n-propylamine			Not detected	50
N-Nitrosodiphenylamine			Not detected	50
Pentachlorophenol			Not detected	50
Phenanthrene			170	50
Phenol			Not detected	50
Pyrene			180	50
Pyridine			Not detected	50
Lead	SW846-6010	mg/kG	14.6	0.500

Units Key: For Waters/Liquids: mg/L = ppm , ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05030746

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 3/30/2005
Robert Q. Bradley
Managing Director

YORK

YORK

ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06905
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ___

D5507046

Company Name	Report To:	Invoice To:	Project ID/No.
JM ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	271 MAIN

Samples Collected By (Signature)

J. MANFREDI

Name (Printed)

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
1	BASE 12-15' NATURAL SOIL	3/23/05		X			SOIL + TCLP 8260 + 8270 ~~as per STARS Table #2~~	8oz
	Under old Tuboscope area							

Chain-of-Custody Record

Bottles Relinquished From Lab by ___ Date/Time ___

Bottles Received in Field by ___ Date/Time ___

Sample Relinquished by ___ Date/Time 3/24

Sample Relinquished by ___ Date/Time ___

Wayne 3/24 1230
Sample Received by Date/Time

3/24/05 4.0°C
Sample Received in LAB by Date/Time

Comments/Special Instructions

Turn-Around Time
___ Standard ___ RUSH(define) 3 DAYS

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 5/11/2005
Re: Client Project ID: 221 Main St., Wt Plains
York Project No.: 05050262

F-8½

CT License No. PH-0723 New York License No. 10854

nelac nelap

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 5/11/2005
Client Project ID: 221 Main St., Wt Plains
York Project No.: 05050262

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 05/09/05. The project was identifed as your project "221 Main St., Wt Plains."

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			N-1/Natural Soil Excavated	
York Sample ID			05050262-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
Benzene			Not detected	5.0
Ethylbenzene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Toluene			Not detected	5.0
Total Xylenes			Not detected	10

YORK

Client Sample ID			N-1/Natural Soil Excavated	
York Sample ID			05050262-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	48
Anthracene			Not detected	32
Benzo[a]anthracene			Not detected	46
Benzo[a]pyrene			Not detected	48
Benzo[b]fluoranthene			Not detected	38
Benzo[g,h,i]perylene			Not detected	55
Benzo[k]fluoranthene			Not detected	91
Chrysene			Not detected	45
Dibenz[a,h]anthracene			Not detected	47
Fluoranthene			Not detected	41
Fluorene			Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54
Naphthalene			Not detected	38
Phenanthrene			Not detected	45
Pyrene			Not detected	56

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05050262

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 5/11/2005

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ____

05050202

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature)
JM ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	221 MAIN ST WT PLAINS	J. MANFREDI (Name Printed)

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
~~NS~~	NATURAL SOIL EXCAVATED	5/2/05		X			8021 + 8270 as per STARS Table #2	8 oz
F-8½								

Chain-of-Custody Record

Bottles Relinquished From Lab by / Date/Time	Sample Relinquished by / Date/Time	Sample Received by / Date/Time
Bottles Received in Field by / Date/Time	Sample Relinquished by / Date/Time	Samples Received in LAB by / Date/Time

5/9/05 5:10 PM 4.9C

Comments/Special Instructions

Turn-Around Time: ___Standard ✓ RUSH(define) 4 hrs

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 6/27/2005
Re: Client Project ID: 221 Main St.
York Project No.: 05060652

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/20/05. The project was identifed as your project "221 Main St. ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			Natural Fill	
York Sample ID			05060652-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
Benzene			Not detected	5.0
Ethylbenzene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Toluene			Not detected	5.0
Total Xylenes			Not detected	10

YORK

Client Sample ID			Natural Fill	
York Sample ID			05060652-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	48
Anthracene			Not detected	32
Benzo[a]anthracene			Not detected	46
Benzo[a]pyrene			Not detected	48
Benzo[b]fluoranthene			Not detected	38
Benzo[g,h,i]perylene			Not detected	55
Benzo[k]fluoranthene			Not detected	91
Chrysene			Not detected	45
Dibenz[a,h]anthracene			Not detected	47
Fluoranthene			Not detected	41
Fluorene			Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54
Naphthalene			Not detected	38
Phenanthrene			Not detected	45
Pyrene			Not detected	56

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05060652

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ **Date:** 6/27/2005

Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

05060652

Company Name	Report To:	Invoice To:	Project ID/No.
SM Associates	SMA	SMA	221 Main St

Samples Collected by (Signature)

Greg Scocchio
Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
SMA-01	Natural Fill	6/16/05		✓			8021 + 8270 as per Stars tab 2	8oz

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
			6/16/05 3pm		6/17/05 8:45 AM
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time

Comments/Special Instructions

Turn-Around Time
✓ Standard ___ RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 7/6/2005
Re: Client Project ID: 221 Main
York Project No.: 05060887

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/28/05. The project was identifed as your project "221 Main ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			H-15	
York Sample ID			05060887-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
Benzene			Not detected	5.0
Ethylbenzene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Toluene			Not detected	5.0
Total Xylenes			Not detected	10

YORK

Client Sample ID			H-15	
York Sample ID			05060887-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	48
Anthracene			Not detected	32
Benzo[a]anthracene			Not detected	46
Benzo[a]pyrene			Not detected	48
Benzo[b]fluoranthene			Not detected	38
Benzo[g,h,i]perylene			Not detected	55
Benzo[k]fluoranthene			Not detected	91
Chrysene			Not detected	45
Dibenz[a,h]anthracene			Not detected	47
Fluoranthene			Not detected	41
Fluorene			Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54
Naphthalene			Not detected	38
Phenanthrene			Not detected	45
Pyrene			Not detected	56

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05060887

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 7/6/2005

YORK

YORK

ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ____

05060887

Company Name	Report To:	Invoice To:	Project ID/No.
I ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	221 MAIN

Samples Collected By (Signature)
J. MANFREDI
Name (Printed)

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
1	H-15	6/24/05		X			8021 + 8270 as per STARS Table #2	8 oz

Chain-of-Custody Record

Sample Relinquished From Lab by — Date/Time

Sample Received in Field by — Date/Time

Sample Relinquished by — Date/Time

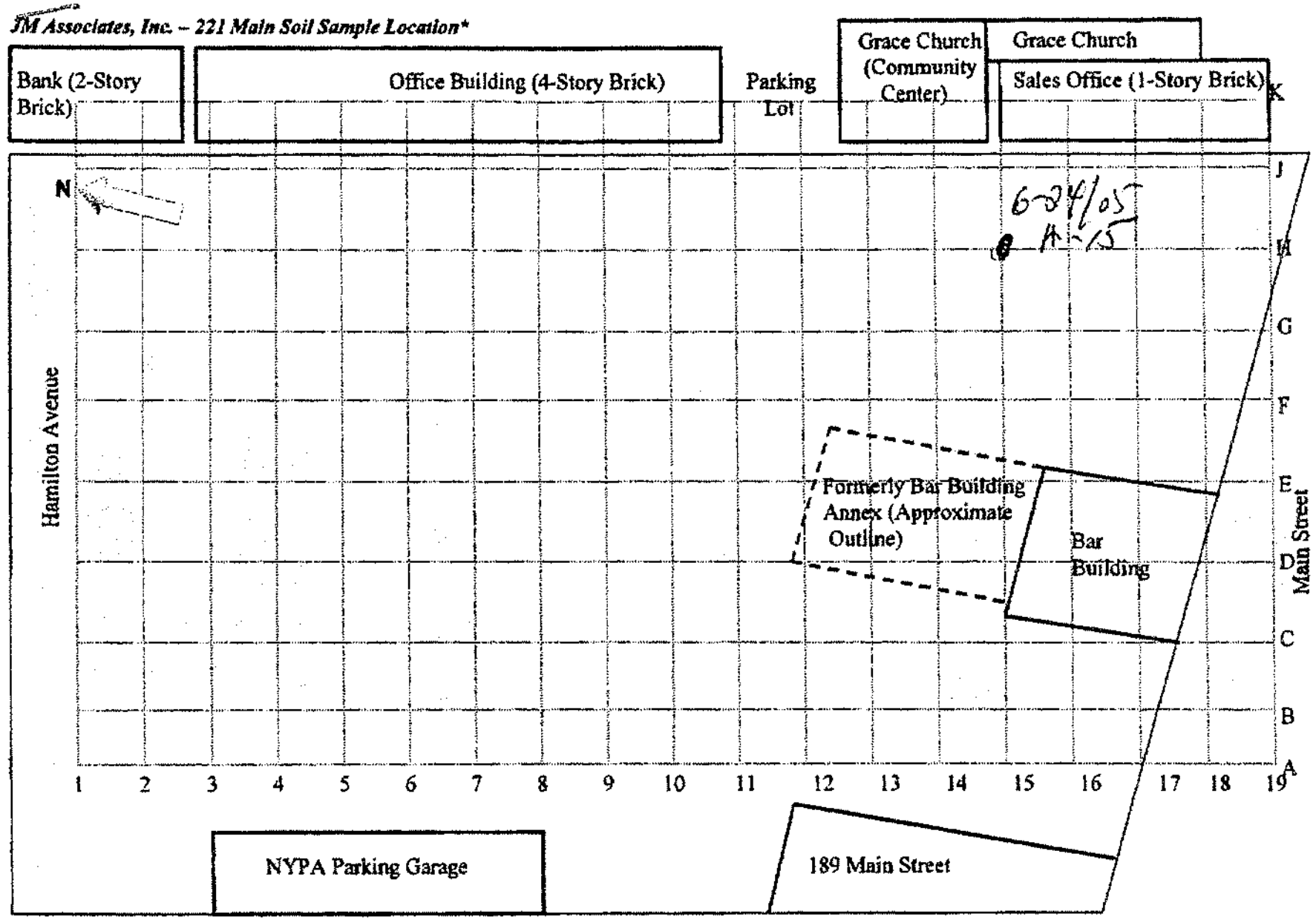
Sample Relinquished by — Date/Time

Sample Received by — Date/Time

Sample Received in LAB by — Date/Time

Comments/Special Instructions

Turn-Around Time
Standard RUSH(deflog)



221 Main Street – Brownfield Cleanup Program
***Sample Locations of Outgoing Natural Soils as per Schnabel Excavation Support Plan Dated 2/4/05**

C:\Data\Coppelli\Brownfields, Concord & 221 Main\221MainStreet.mem\Sketches\Out Going Soils\Outgoing Soil Sample Location Sketch.doc

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 7/26/2005
Re: Client Project ID: 221 Main
York Project No.: 05070465

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 7/26/2005
Client Project ID: 221 Main
York Project No.: 05070465

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/18/05. The project was identifed as your project "221 Main ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			E4	
York Sample ID			05070465-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
Benzene			Not detected	5.0
Ethylbenzene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Toluene			Not detected	5.0
Total Xylenes			Not detected	10

YORK

Client Sample ID			E4	
York Sample ID			05070465-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---
Acenaphthene			Not detected	48
Anthracene			Not detected	32
Benzo[a]anthracene			Not detected	46
Benzo[a]pyrene			Not detected	48
Benzo[b]fluoranthene			Not detected	38
Benzo[g,h,i]perylene			Not detected	55
Benzo[k]fluoranthene			Not detected	91
Chrysene			Not detected	45
Dibenz[a,h]anthracene			Not detected	47
Fluoranthene			Not detected	41
Fluorene			Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54
Naphthalene			Not detected	38
Phenanthrene			Not detected	45
Pyrene			Not detected	56

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05070465

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 7/26/2005

YORK

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

05070465.

Company Name	Report To:	Invoice To:	Project ID/No.	
JM Associates, Inc.	JM Associates, Inc.	JM Associates, Inc.	221 Main	Samples Collected By (Signature)
				Charlie Jones Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
SS-1	E4	7/18/05		X			8021 +8270 Aspeasters Table 1&2	8oz

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	7/18/05 Date/Time	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	7/18 5PM 4.6C Date/Time

Comments/Special Instructions

Turn-Around Time

___Standard ___RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 8/4/2005
Re: Client Project ID: 221 Main
York Project No.: 05070771

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/4/2005
Client Project ID: 221 Main
York Project No.: 05070771

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/28/05. The project was identifed as your project "221 Main ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			Grid #E-13 Front Pile Natural	
York Sample ID			05070771-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
SPLP Volatiles-8021 STARS Table 2	SW846-8260	ug/L	---	---
1,2,4-Trimethylbenzene			Not detected	1
1,3,5-Trimethylbenzene			Not detected	1
Benzene			Not detected	1
Ethylbenzene			Not detected	1
Isopropylbenzene			Not detected	1
Naphthalene			Not detected	1
n-Butylbenzene			Not detected	1
n-Propylbenzene			Not detected	1
o-Xylene			Not detected	2
p- & m- Xylenes			Not detected	2
p-Isopropyltoluene			Not detected	1
sec-Butylbenzene			Not detected	1
tert-Butylbenzene			Not detected	1
Toluene			Not detected	1
Total Xylenes			Not detected	2

YORK

Client Sample ID			Grid #E-13 Front Pile Natural	
York Sample ID			05070771-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
SPLP STARS Target Semi-Volatiles	SW846-8270	ug/L	---	---
Acenaphthene			Not detected	10
Anthracene			Not detected	10
Benzo[a]anthracene			Not detected	10
Benzo[a]pyrene			Not detected	10
Benzo[b]fluoranthene			Not detected	10
Benzo[g,h,i]perylene			Not detected	10
Benzo[k]fluoranthene			Not detected	10
Chyrsene			Not detected	10
Dibenz[a,h]anthracene			Not detected	10
Fluoranthene			Not detected	10
Fluorene			Not detected	10
Indeno[1,2,3-cd]pyrene			Not detected	10
Naphthalene			Not detected	10
Phenanthrene			Not detected	10
Pyrene			Not detected	10

Units Key: For Water/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05070771

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 8/4/2005

YORK

09210771

YORK

ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ____

Company Name	Report To:	Invoice To:	Project ID/No.
ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	221 MAIN

Samples Collected By (Signature)
J. MANFREDI
Name (Printed)

ample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
1	GRID # E-B FRONT P.I.E.	7/26/05		X			SPLP METHOD 8021 + 8270 as per STARS Table #2	8 oz
	NATURAL SOIL							

ain-of-Custody Record

les Relinquished From Lab by — Date/Time

les Received in Field by — Date/Time

Sample Relinquished by — 7/27/05 10 — Date/Time

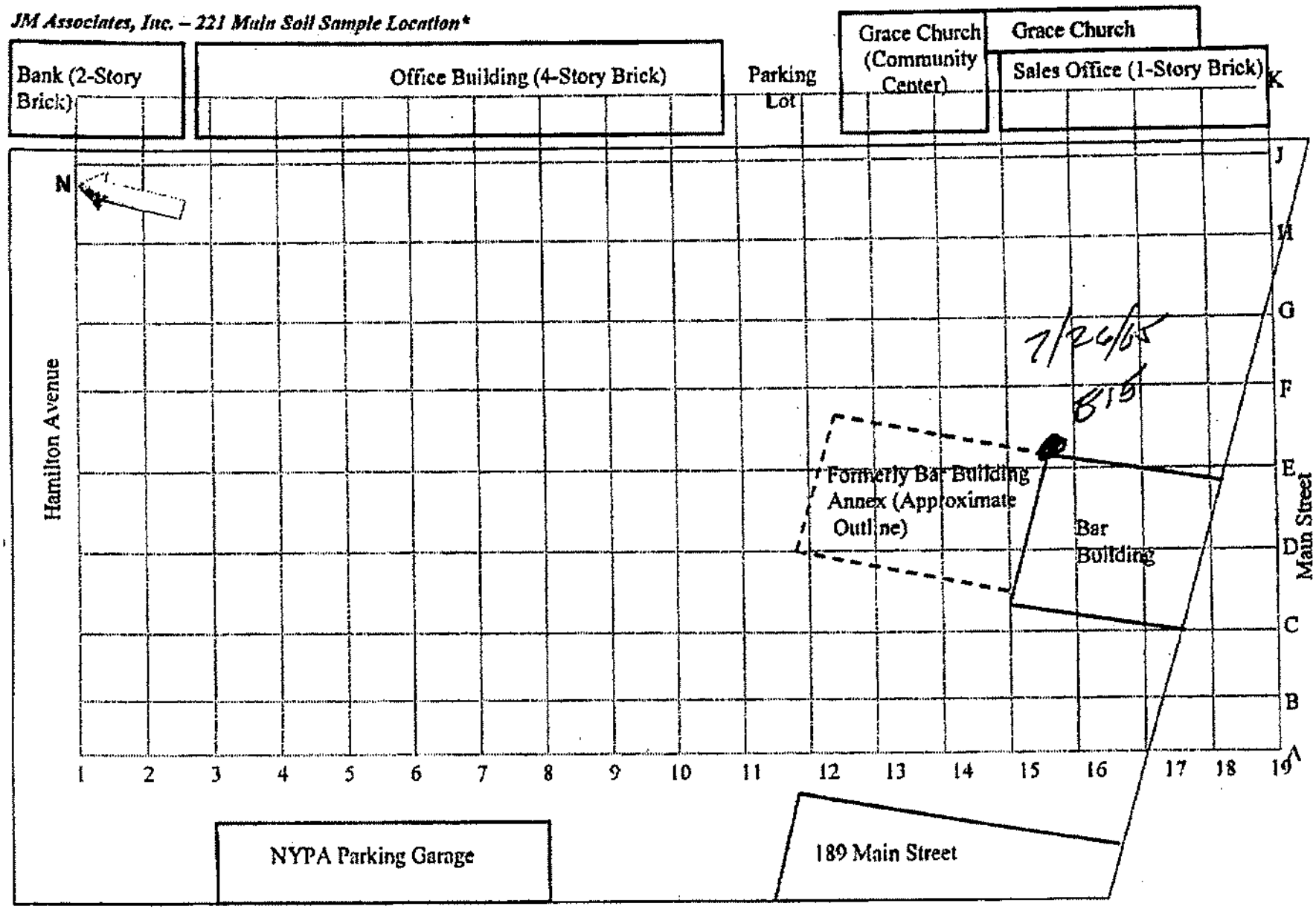
Sample Relinquished by — Date/Time

Sample Received by — Date/Time

Sample Received in LAB by — Date/Time

mments/Special Instructions

Turn-Around Time
Standard ____ RUSH(deline)____



221 Main Street – Brownfield Cleanup Program
***Sample Locations of Outgoing Natural Soils as per Schnabel Excavation Support Plan Dated 2/4/05**

C:\Data\Coppelli\Brownfields, Concord & 221 Main\221MainStreet.mem\Sketches\Out Going Soils\Outgoing Soil Sample Location Sketch.doc

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 9/7/2005
Re: Client Project ID: 221 Main St.
York Project No.: 05090121

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 9/7/2005
Client Project ID: 221 Main St.
York Project No.: 05090121

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/06/05. The project was identifed as your project "221 Main St. ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			24' Pile 110		22' Pile 108	
York Sample ID			05090121-01		05090121-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 STARS Table 2	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	Not detected	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
Total Xylenes			Not detected	10	Not detected	10

YORK

Client Sample ID			24' Pile 110		22' Pile 108	
York Sample ID			05090121-01		05090121-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	48	Not detected	48
Anthracene			Not detected	32	Not detected	32
Benzo[a]anthracene			Not detected	46	Not detected	46
Benzo[a]pyrene			Not detected	48	Not detected	48
Benzo[b]fluoranthene			Not detected	38	Not detected	38
Benzo[g,h,i]perylene			Not detected	55	Not detected	55
Benzo[k]fluoranthene			Not detected	91	Not detected	91
Chrysene			Not detected	45	Not detected	45
Dibenz[a,h]anthracene			Not detected	47	Not detected	47
Fluoranthene			Not detected	41	Not detected	41
Fluorene			Not detected	60	Not detected	60
Indeno[1,2,3-cd]pyrene			Not detected	54	Not detected	54
Naphthalene			Not detected	38	Not detected	38
Phenanthrene			Not detected	45	Not detected	45
Pyrene			Not detected	56	Not detected	56

Client Sample ID			E17 Water in Pit	
York Sample ID			05090121-03	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-BTEX water	SW846-8260	ug/L	---	---
Benzene			Not detected	1
Ethylbenzene			Not detected	1
o-Xylene			Not detected	1
p- & m-Xylene			Not detected	1
Toluene			Not detected	1

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05090121

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 9/7/2005

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

0509121 Page ___ of ___

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	
JM Associates, Inc.	JM Associates, Inc.	JM Associates, Inc.	221 Main St.	Samples Collected By (Signature)
				Robert Eaton Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
JMA-01	24' Pile 110	9/2/05		X			8021+8270 as per STARS TABLE #2	8oz
JMA-02	22' Pile 108	9/2/05		X			8021+8270 as per STARS Table #2	8oz.

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
		Robert Eaton	9/2/05 1510		9/6/05
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time
					9-6-05 1630

Comments/Special Instructions
4.6°C

Turn-Around Time
___ Standard ✓ RUSH (define) 24 hr. ASAP

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Report Date: 10/19/2005
Re: Client Project ID: 221 Main St.
York Project No.: 05100360

CT License No. PH-0723 New York License No. 10854

nelac nelap

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 10/19/2005
Client Project ID: 221 Main St.
York Project No.: 05100360

JM Associates, Inc.
225 Railroad Ave.
Bedford Hills, NY 10507
Attention: Mr. John Manfredi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 10/12/05. The project was identifed as your project "221 Main St. ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			Outgoing Soil (E13)	
York Sample ID			05100360-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
SPLP Volatiles-8021 STARS Table 2	SW846-8260	ug/L	---	---
1,2,4-Trimethylbenzene			Not detected	1
1,3,5-Trimethylbenzene			Not detected	1
Benzene			Not detected	1
Ethylbenzene			Not detected	1
Isopropylbenzene			Not detected	1
Naphthalene			Not detected	1
n-Butylbenzene			Not detected	1
n-Propylbenzene			Not detected	1
o-Xylene			Not detected	2
p- & m- Xylenes			Not detected	2
p-Isopropyltoluene			Not detected	1
sec-Butylbenzene			Not detected	1
tert-Butylbenzene			Not detected	1
Toluene			5	1
Total Xylenes			Not detected	2

YORK

Client Sample ID			Outgoing Soil (E13)	
York Sample ID			05100360-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
SPLP STARS Target Semi-Volatiles	SW846-8270	ug/L	---	---
Acenaphthene			Not detected	10
Anthracene			Not detected	10
Benzo[a]anthracene			Not detected	10
Benzo[a]pyrene			Not detected	10
Benzo[b]fluoranthene			Not detected	10
Benzo[g,h,i]perylene			Not detected	10
Benzo[k]fluoranthene			Not detected	10
Chyrsene			Not detected	10
Dibenz[a,h]anthracene			Not detected	10
Fluoranthene			Not detected	10
Fluorene			Not detected	10
Indeno[1,2,3-cd]pyrene			Not detected	10
Naphthalene			Not detected	10
Phenanthrene			Not detected	10
Pyrene			Not detected	10

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 05100360

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ Date: 10/19/2005

Robert Q. Bradley
Managing Director

YORK

ANALYTICAL LABORATORIES, INC.
ONE REASEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of ___

05120320

Company Name	Report To:	Invoice To:	Project ID/No.	
ASSOCIATES, INC.	JM ASSOCIATES, INC.	JM ASSOCIATES	121 Main ST	Samples Collected By (Signature): J. MANFREDI (Name Printed)

Sample No.	Location /ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	ANALYSES REQUESTED	Container Description(s)
S-3	OUTSIDE SOIL (E13)	10/11/05		X			SPLP 8021 + 8270 as per ~~STARS Table #2~~ Stars Table #2	8 oz.

Chain-of-Custody Record

Relinquished From Lab by	Date/Time	Sample Relinquished by: C. Crowley	Date/Time: 10/12/05
Received in Field by	Date/Time	Sample Relinquished by	Date/Time

Sample Received by: [illegible] Date/Time: 10/12/05

Sample Received in LAB by: [illegible] Date/Time: 10/12/05 9:40

Comments/Special Instructions

Turn-Around Time
Standard Rush (define)

IRM WORK PLAN
APPENDIX B

HEALTH AND SAFETY PLAN

HEALTH AND SAFETY PLAN

221 MAIN STREET SITE

221 Main Street
White Plains, NY 10601

OCTOBER 2004

Prepared for:

LC Main, LLC
115 Stevens Ave
Valhalla, NY 10595

Prepared By:

JM Associates, Inc.
225 Railroad Ave
Bedford Hills, NY 10507

TABLE OF CONTENTS

1.0 INTRODUCTION

JM Associates has prepared this Site-Specific Health & Safety Plan (HASP) for the Remedial Investigation (RI) and Interim Remedial Measures (IRM) that will be conducted at the 221 Main Street Site located at 221 Main Street, White Plains, New York ("the Site") under the New York State Brownfield Cleanup Program (BCP). This HASP has been prepared in accordance with the industry standards of the Federal Occupational Safety and Health Administration (OSHA) as outlined in Title 20 of the Code of Federal Regulations, Parts1910 and 1926 (20 CFR 1910 and 20 CFR 1926). The HASP is designed to establish site-specific health and safety procedures that will be followed during Site activities in order to minimize exposure of site workers and the community to physical and chemical hazards that may be present at the Site. The HASP will be adhered to be all personnel involved in the investigation. Procedures followed in this HASP are implemented to ensure that workers on the Site as well as people working near the site and the surrounding community are protected from exposures to site contaminants.

2.0 SITE DESCRIPTION

Site background information is discussed in the RI/IRM Work Plan. The site is located in the City of White Plains, Westchester County, New York as shown on Figure 1, and is occupied by commercial establishments and parking lots. The three main areas of the site include the Main Street Building (203-227 Main St) and the Annex building, the parking area located behind (north of) the Main Street Building (the Halpern Lot), and the City Lot, which is a municipal parking lot located west of the Halpern Lot and Annex. The three areas of the Site are shown on Figure 2.

Soil and groundwater at the Site are impacted by petroleum products due to leaking underground storage tanks (USTs). There are four suspected areas of concern (AOC) at the Site. The first area (AOC-1) is under the 221 Main Street Building, where USTs may remain. The second area of concern (AOC-2) is a UST located adjacent to the Annex building. AOC-3 is on the west side of the Halpern Lot, which could be related to the past use of the Lot as a filling station. The final area of concern (AOC-4) is the former location of a police department tank on the western side of the City Lot. Groundwater in AOC-4 is known to be contaminated. The general areas of the four AOCs are shown on Figure 2.

The Site comprises the majority of one city block. A Church and office building are located to the east of the site within the block, and are not considered part of the Site. A building known as the Bar Building is located within the Site, on the south side, between the Main St Building and the Annex Building. The Bar Building is not part of the Site and will remain intact. The surrounding area of the Site is comprised of commercial and office establishments. The New York State Power Authority Parking Garage is located adjacent to the Site, to the West.

The Site is fairly flat and contains no surface water bodies. The nearest surface water is the Bronx River, located approximately 1500 feet west of the Site. Groundwater is approximately 15 – 20 feet below ground surface (bgs) and flows west.

3.0 WORK OBJECTIVE

The objective of the work being performed at the Site is to remove contaminated soil and to evaluate the extent of contamination in soil gas and groundwater. The objectives of the work will be completed in two phases. The first phase is an IRM to remove contaminated soil at the site and any remaining USTs. The second phase is a RI to determine if soil vapor has migrated from the site and to determine the extent of groundwater contamination.

3.1 Work Activities

Specific work activities to be performed include:

- Excavation of contaminated soil;
- Confirmatory soil sampling;
- Monitoring well installation;
- Groundwater sampling;
- Soil gas sampling.

Safety procedures required for each of the acitivites to be performed are described in subsequent sections of this HASP.

4.0 PERSONNEL

Personnel at the Site include a project manager, a Health and Safety Officer (HSO), and subcontractors. Visitors may also be on the Site at various times.

4.1 Health and Safety Officer (HSO)

The Health and Safety Officer (HSO) is responsible for coordination of health and safety procedures and is responsible for compliance with the HASP. The HSO will ensure that all site personnel and visitors read and sign the HASP. All safety concerns should be referred to the HSO. The HSO will make any necessary modifications to the HASP should site conditions change. The HSO will communicate daily with the Project Manager. The HSO for this project is John McCarthy of ProSafety.

4.2 Project Manager

The Project Manager (PM) is responsible for the overall coordination of work at the Site. All subcontractors and other personnel report to the Project Manager. The Project Manager is required to read and sign the HASP and to adhere to HASP procedures. The

Project Manager communicates daily with the HSO. The Project Manager for this project is John Manfredi of JM Associates.

4.3 Subcontractors

J.M. Associates requires that all site contractors work under their own site-specific health and safety plans. J.M. Associates is not responsible for the health and safety of the site contactors. The site contractors will, however, be required to read and sign this site-specific HASP and agree to comply with the procedures outlined in this HASP.

4.4 Visitors

All visitors will be required to sign and read this HASP and agree to follow the procedures outlined in this HASP. Site visitors will not be allowed in designated areas of the Site where work in contaminated areas is being performed as outlined in this HASP.

4.5 Training

Training is required of all employees working in the exclusion and contamination reduction zones. The training requirements are as follows:

- 8 hour awareness class
- Three days of supervised field experience
- HASP training

Documentation of the required training for workers is kept in company files in the J.M. Associates main office.

5.0 SITE CONTROL

Prior to the start of field activities, the HSO will be responsible for the designation of the exclusion zone, contamination reduction zone and support zone.

The exclusion zone will defined as the immediate work area and the area within ten feet of the work area. The exclusion zone is the area where the greatest potential hazard exists. **Only authorized workers with the required training are allowed in this zone.**

A contamination reduction zone will be defined by the HSO daily. This zone will be located outside of the exclusion zone, and upwind of the exclusion zone whenever possible. The contamination reduction zone will be used for the storage of equipment and personnel decontamination.

The support zone will be defined as an outermost area outside the contamination reduction zone. The support zone is a clean area where administrative and support employees remain and where communications are held. Normal work clothes are

allowed in this zone. The support zone will be located upwind from high hazard areas as appropriate.

6.0 EMERGENCY INFORMATION

A map of the Site and designated work zones is included as Figure 3.

Site Address:	221 Main Street White Plains, NY 10601
Health and Safety Officer (HSO):	
General Emergency:	911
Police Department:	Non-emergency: (914) 422-6111 Emergency 911
Fire Department:	Non-emergency: (914) 422-6322 Emergency 911
Ambulance:	Non-emergency: (914) 422-6111 Emergency 911
Hospital:	New York Hospital 21 Bloomingdale Rd White Plains, NY (914) 682-9100

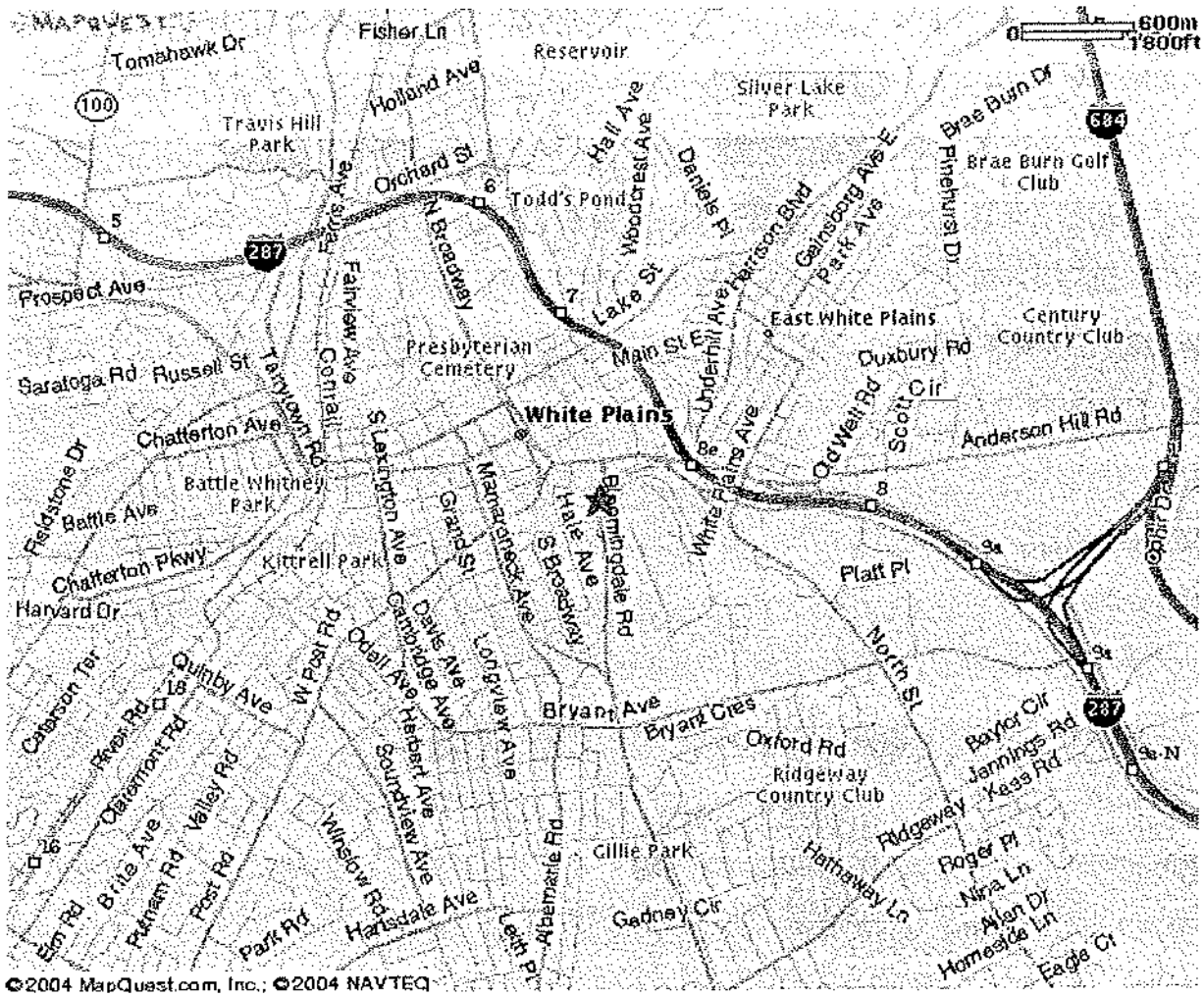
Directions to Hospital (see attached Map):

Start out by going Northeast on MAIN ST/NY-119 E toward CHURCH ST.
Turn RIGHT onto S BROADWAY/NY-22 S/NY-119 E.
Turn LEFT onto ARMORY PL/MITCHELL PL/NY-119 E.
Continue to follow NY-119 E.
Turn RIGHT onto BLOOMINGDALE RD.
End at 21 Bloomingdale Rd White Plains

Poison Control Center:	(914) 366-3030
J.M. Associates Information:	225 Railroad Ave Bedford Hills, NY 10507 (914) 241-3795
Signal for Emergency:	Warning Shout

HOSPITAL LOCATION

New York Hospital
21 Bloomingdale Rd



Point of Meeting for Emergency: J.M. Associates Project Vehicle

Communication: Cell Phones, Verbal Communication

7.0 HAZARD EVALUATION

The potential physical and chemical hazards for this project have been evaluated. Existing information including past experience and past sampling results were used in the evaluation process.

7.1 Physical Hazards

Physical hazards for this project include electrical exposure, mechanical exposure, fire/explosion, noise exposure and heat or cold stress. Precautions will be taken to avoid physical hazards and include general safe working practices and proper personal protective equipment. Heat stress and cold stress can be avoided by dressing appropriately and taking necessary work breaks.

7.2 Chemical Hazards

The chemical hazards for this site include contact with contaminated soil and groundwater and possibly with soil vapor. The chemicals known to be associated with the site are petroleum products. Chemicals to be introduced to the site include those from sampling activities, including sample preservatives, and from fuel and oil associated with on-site vehicles. Possible exposures to chemical hazards include dermal contact, inhalation and ingestion.

7.3 Health Risk Analysis

OSHA Permissible Exposure Limits (PELs) for the main contaminants of concern at the Site are outlined in Table 1 below. Specific Material and Safety Data Sheets (MSDSs) for these chemicals are included in Appendix B.

Compound	NIOSH PEL (ppm)	OSHA PEL (ppm)	NIOSH PEL (STEL) (ppm)
Toluene	100	200	150
Xylene	100	100	150

7.4 Task Risk Analysis

A summary of the tasks planned for this project and their associated potential hazards are listed in table 2 below. The protective measures anticipated for each hazard are also outlined.

Task	Hazard	Preventative Measure
Excavation, drilling, installation of monitoring wells	• Heavy equipment • Drmal and inhalation exposure to contaminants • Contact with underground utilities • Excavations	Level D with Levels C upgrade if ambient air VOC concentrations measured with a PID exceed 100 ppm. Do not enter excavations.
Soil and groundwater sampling	• Exposure to contaminants	Level D

7.5 Traffic Hazards

Traffic at the Site will be limited to necessary construction vehicles. Designated parking areas will be established and personal vehicles will be limited to the designated parking areas. Traffic will be monitored and additional safety measures and traffic control measures will be implemented as needed.

8.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Personal Protective Equipment (PPE) will be utilized by on-site personnel. It is anticipated that Level D will be sufficient at all times during constriction. The levels of PPE are outlined in Table 3 below, along with the conditions under which they will be utilized.

Level of PPE	Application
Level D Work uniform: • Long sleeve shirt and pants or coveralls • Hard Hat • Safety Glasses • Steel-toe work boots • Hearing protection (as required)	PID ≤ 100 ppm over 15 minute duration PID ≤ 200 ppm under 15 minute duration (Levels monitored above background levels)
Level C Respirator: • Full-face air purifying respirator with VOC cartridges and dust pre-filters Work Uniform: • Chemical resistant suit – Tyvek or equivalent • Hard Hat	PID > 100 ppm (or 250 ppm as above) PID < 750 ppm over 15 minute duration (Levels monitored above background levels)

• Safety Glasses • Steel-toe work boots with chemical resistant boot covers • Chemical resistant gloves • Hearing protection (as required) Procedures: • Buddy System • Two-way radios	

If conditions exceed Level C, work is stopped and emergency evacuation procedures followed.

9.0 AIR MONITORING

The RI and IRM activities will be completed outdoors, and will therefore be well-ventilated. Air monitoring will be completed in the exclusion zones to establish action levels for worker respiratory protection and to determine when upgraded PPE is necessary. Direct reading instruments will be used for initial and periodic air monitoring. All air monitoring equipment will be calibrated each day and will be inspected to ensure they are in good working condition. Table 4 below summarizes the air monitoring to be performed at the Site. Additional air monitoring is outlined in Section 13.1.

Instrument	Frequency	Action Level	Action
Photoionization Detector (PID)	When readings are detected	150 ppm (above background)	Upgrade PPE as indicated in Table 3 above.

10.0 DECONTAMINATION

It is not expected that PPE will require decontamination. Disposable gloves and sampling equipment will be used and containerized in drums for proper disposal. If Level C PPE is required, disposal boot covers, Tyvek suits, safety glasses, gloves and duct tape will be used. To decontaminate, the disposable materials will be drummed for proper testing and disposal. If necessary, heavy construction equipment will be decontaminated by steam-cleaning and washing with water spray prior to leaving the contamination reduction zone. All waste water would be containerized, tested and properly disposed of.

11.0 INCIDENT REPORTING

All injuries and incidences must be reported to the HSO. The HSO will take appropriate action to prevent further exposure or injury. Following an incident, an incident report will be completed. An example of the incident report is included in Appendix A. The HSO will investigate the event and take corrective action as needed. In the event of a

hazardous material spill or reportable release, the appropriate regulatory agencies will be notified by the HSO.

12.0 EMERGENCY RESPONSE

Hospital and emergency contact information is included in Section 6.0. For non-emergencies, a first-aid kit will be located on site in the J.M. Associates project vehicle.

If an upgrade to Level C PPE is necessary, verbal hazard communication may become difficult. Under those circumstances, a universal set of hand signals will be used as follows:

Hand gripping throat	Can't breathe
Grip partner's wrist	Leave work area immediately
Hand on top of head	Need assistance
Thumbs up	Okay, I'm alright, I understand
Thumbs down	No, negative, I do not understand

If Level C PPE is used, the buddy system will be put in place. The buddy system ensures that no employee works alone in the exclusion zone. When working under the buddy system, employees are paired and must always be in close proximity of each other. If one employee needs to leave the exclusion zone, both employees must leave,

12.1 Evacuation and Emergency Response

In the even of an emergency, notify the HSO immediately. The signal to evacuate is a warning shout. All personnel will evacuate to the J.M Associates project vehicle unless otherwise defined by the HSO at the start of the work day.

12.2 Spills

All spills and leaks must be reported to the HSO. If the spill is a threat to human health or the environment, the area should be evacuated and the HSP immediately notified.

13.0 COMMUNITY HEALTH AND SAFETY PLAN (CHASP)

Safe working procedures will be adhered to in accordance with this HASP to ensure protection of the surrounding community. There are several establishments in close proximity to the work area. Construction fencing will be erected around the work areas to ensure confinement of contaminated work areas. Signs will be posted to warn the public to stay out of designated areas.

APPENDIX A

Incident Report Form

REMEDIATION INCIDENT REPORTING FORM

COMPLETE & SUBMIT WITHIN HRS OF INCIDENT

INCIDENT/FILE # _____

☐ Employee ☐ Contractor ☐ 3rd Party ☐ Initial ☐ Final

☐ Safety ☐ Environmental

Business Client _____

☐ Fuels ☐ Upstream

☐ Refining ☐ Chemical

☐ Supply ☐ Lubes

☐ Other _____

Original To: _____

Copies To: _____

INCIDENT TYPE

Safety _____ Environmental _____

Type of Incident (check all that apply):

☐ Injury
☐ Illness
☐ Motor Vehicle Incident
☐ Lesson Learned
☐ Property/Equipment Damage
☐ Critical Safety Device Failure
☐ Other _____

☐ Fatality
☐ Lost Time
☐ Medical Treatment
☐ 1st Aid Administered
☐ Restricted Work Activity
☐ Other _____

Type of Incident (check all that apply):

☐ Environmental Release/Spill
☐ Exceedance
☐ Notice of Violation
☐ Environmental Fine/Penalty
☐ Consent Order
☐ Lesson Learned
☐ Other _____

BACKGROUND INFORMATION

Company Name _____

Location of Incident _____ (City, State) Site/Facility/Store# _____

Name _____ (First, Middle, Last)

Home Address _____ (No. & Street) (City) (State) Phone _____

Age _____ Gender _____

Occupation (Job Title) _____

Years Worked for Company _____

Supervisor's Name _____ Supervisor's Phone _____

EM Contact _____ EM Contact Phone _____

REMEDIATION INCIDENT REPORTING FORM

ROOT CAUSE ANALYSIS

☐ Human Performance ☐ Equipment Duifficulty

☐ Natural Phenomenon/Sabatoge ☐ Other

Body Part Injured

Injury Type / Illness

Type of Incident

Physical Agent

First Aid Received? Where?

Employee Comments and Description if Incident

I have reviewed this form with Representative

Employee/Contractor/3rd Party Signature Date

I have reviewd this form with above person

Representative Signature Date

APPENDIX B

Air Monitoring Log

Air Monitoring Log

Date	Time	Location	Instrument Reading	Comments

APPENDIX C

Acknowledgement of HASP

ACKNOWLEDGEMENT OF HASP

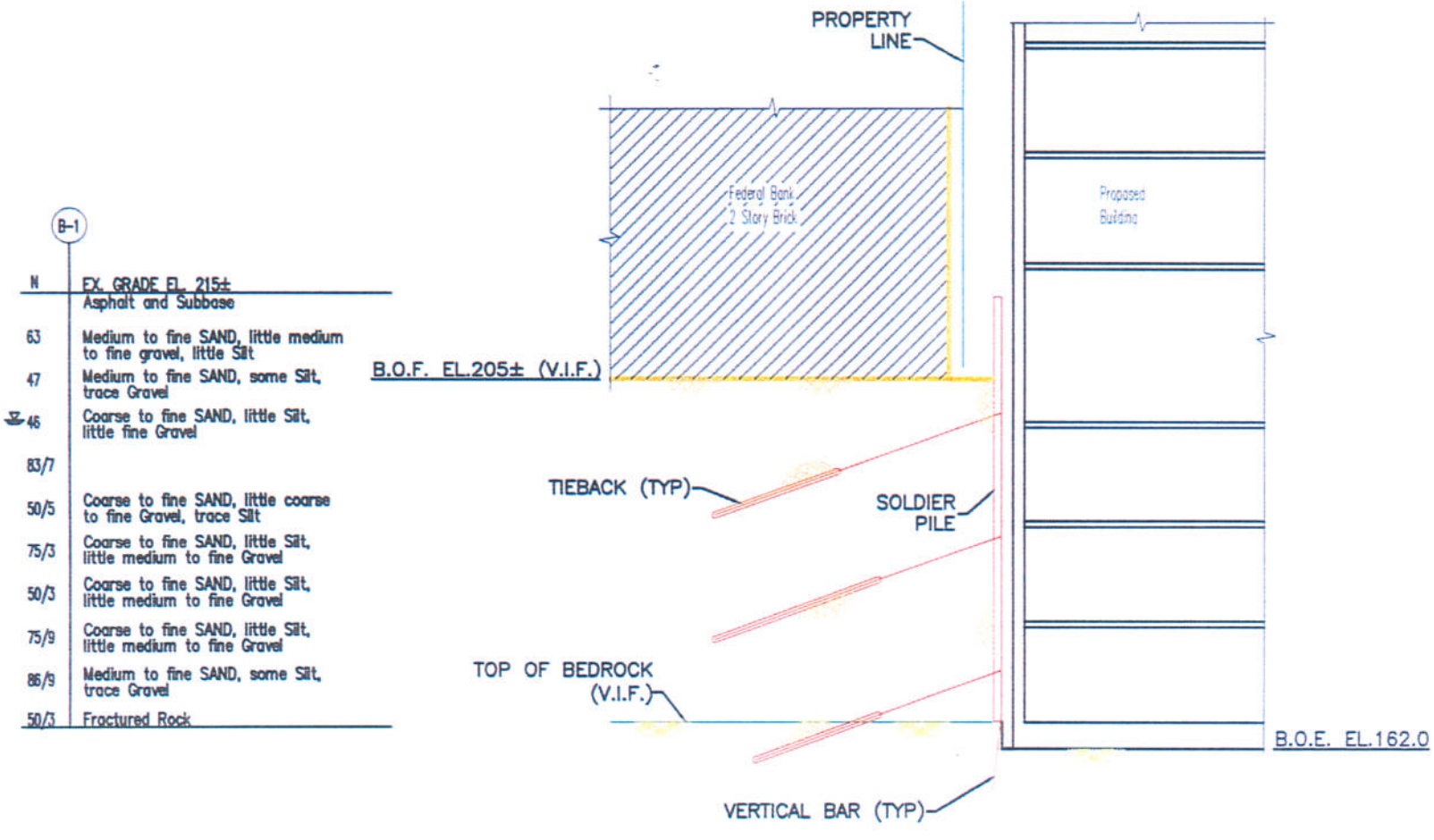
By signing below, I attest that I have read the Health and Safety Plan for the 221 Main Street Site and I agree to follow all procedures outlined therein.

Date	Name (Print)	Company Name, Address and Telephone Number	Signature

IRM WORK PLAN
APPENDIX E

ENGINEERING DRAWINGS, CROSS SECTIONS, AND EXCAVATION SUPPORT PLANS

X-REF: NAMES?
2005/Dec/Syr/jlk
J:\PROJECTS\N-xxxx\N500\N5023-Fuller-221 Main Street\Revised IRM WP\Figures\221 Main Fig E-1-E-10



Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

S&W Redevelopment of North America, LLC

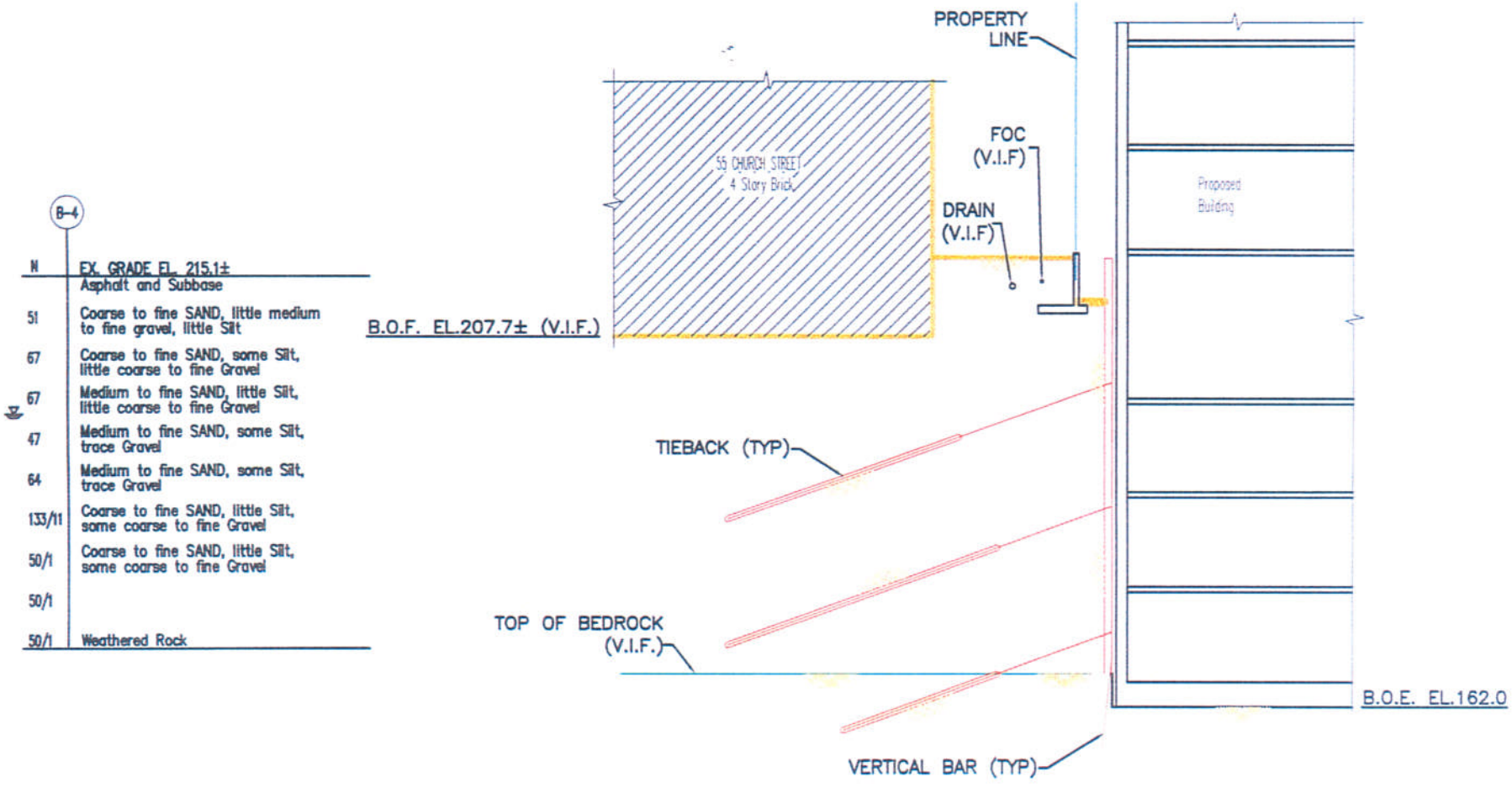
Syracuse, New York

DATE: 12/2005 JOB No: N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E-1
Soldier Pile Design

X-REF: NAMES?
2005/Dec/Syr/jlk
J:\PROJECTS\N-xxxx\N500\N5023-Fuller-221 Main Street\Revised IRM WP\Figures\221 Main Fig E-1-E-10



Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

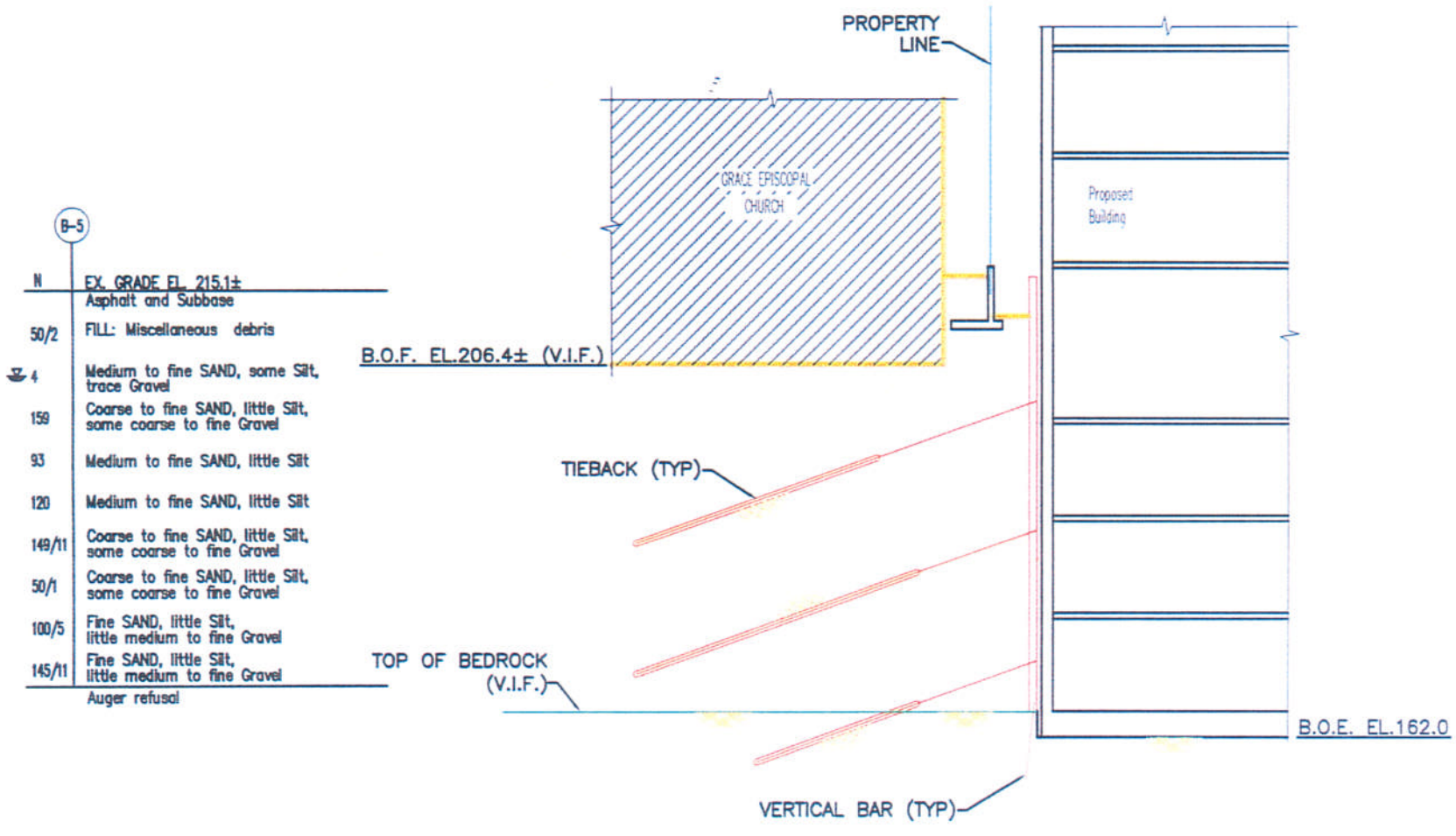
S&W Redevelopment of North America, LLC

Syracuse, New York

DATE: 12/2005 JOB No:N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E-2
Soldier Pile Design



Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

S&W Redevelopment of North America, LLC

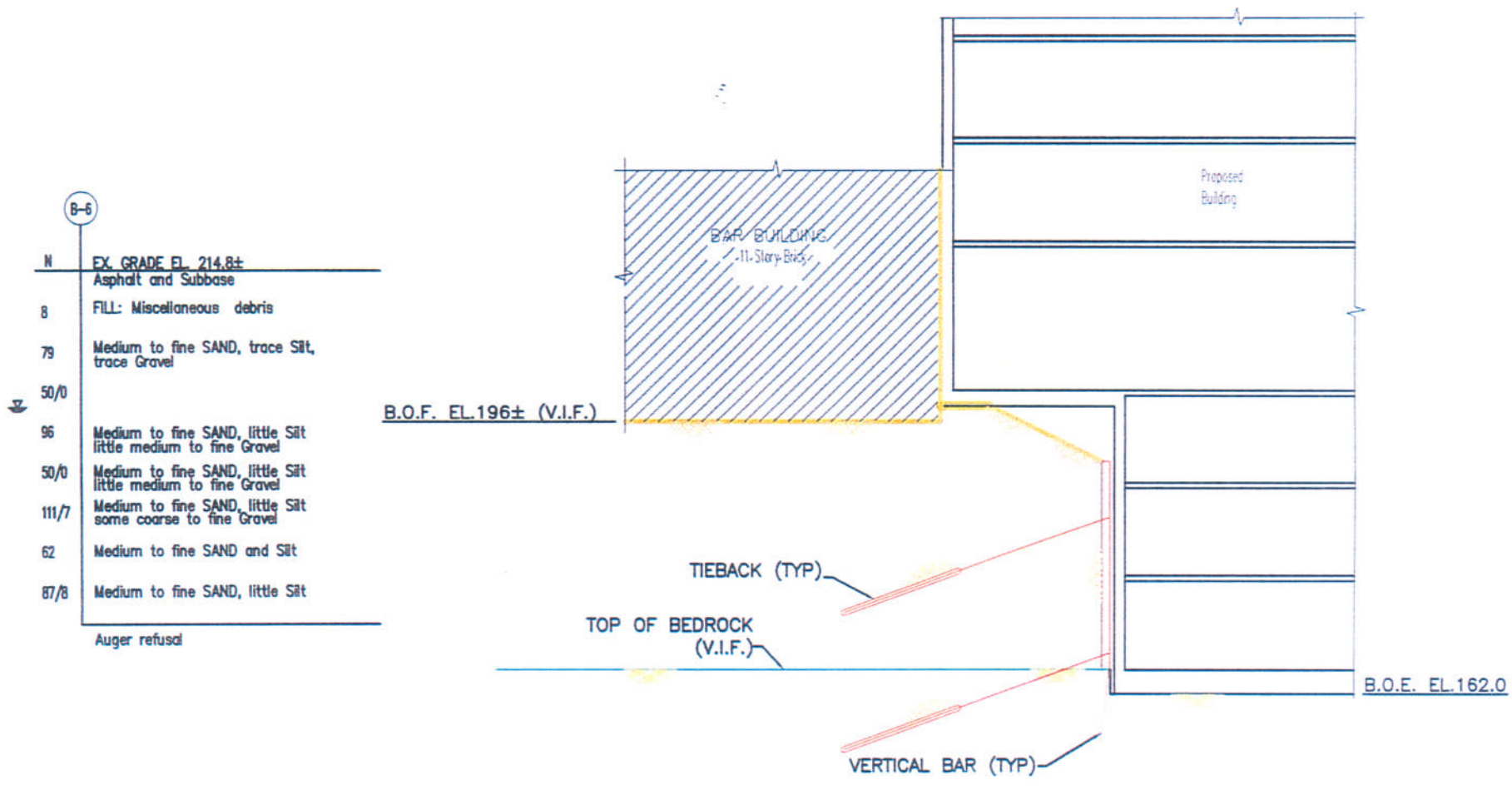
Syracuse, New York

DATE: 12/2005 JOB No: N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E-3
Soldier Pile Design

X-REF: NAMES?
2005/Dec/Syr/jlk
J:\PROJECTS\N-xxxx\N500\N5023-Fuller-221 Main Street\Revised IRM WP\Figures\221 Main Fig E-1-E-10



Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

S&W Redevelopment of North America, LLC

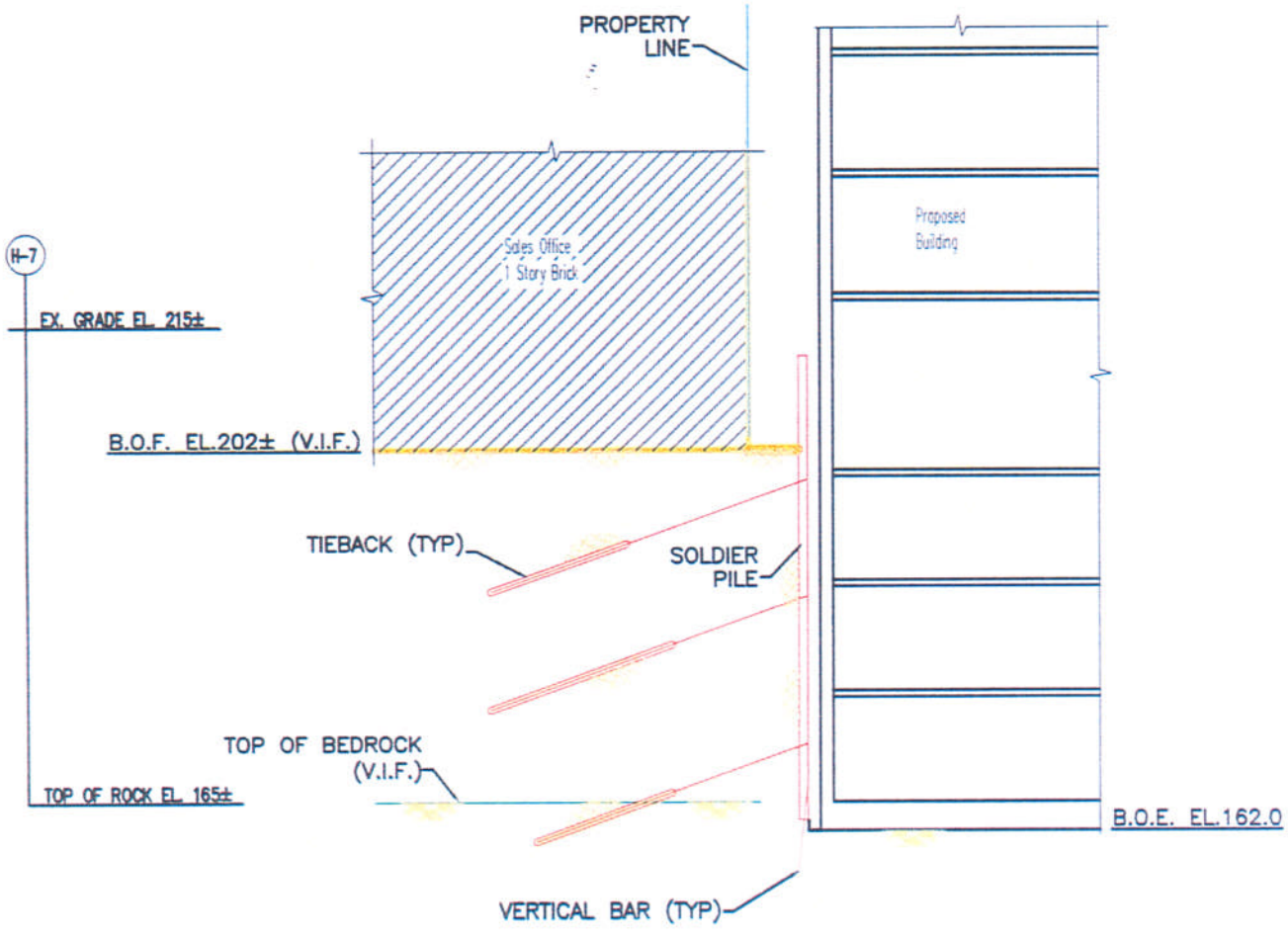
Syracuse, New York

DATE: 12/2005 JOB No:N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E-4
Soldier Pile Design

X-REF: NAMES?
2005/Dec/Syr/jlk
J:\PROJECTS\N-xxxx\N500\N5023-Fuller-221 Main Street\Revised IRM WP\Figures\221 Main Fig E-1-E-10



Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

S&W Redevelopment of North America, LLC

Syracuse, New York

DATE: 12/2005 JOB No:N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E–5
Soldier Pile Design

X-REF: NAMES?
2005/Dec/Syr/jlk
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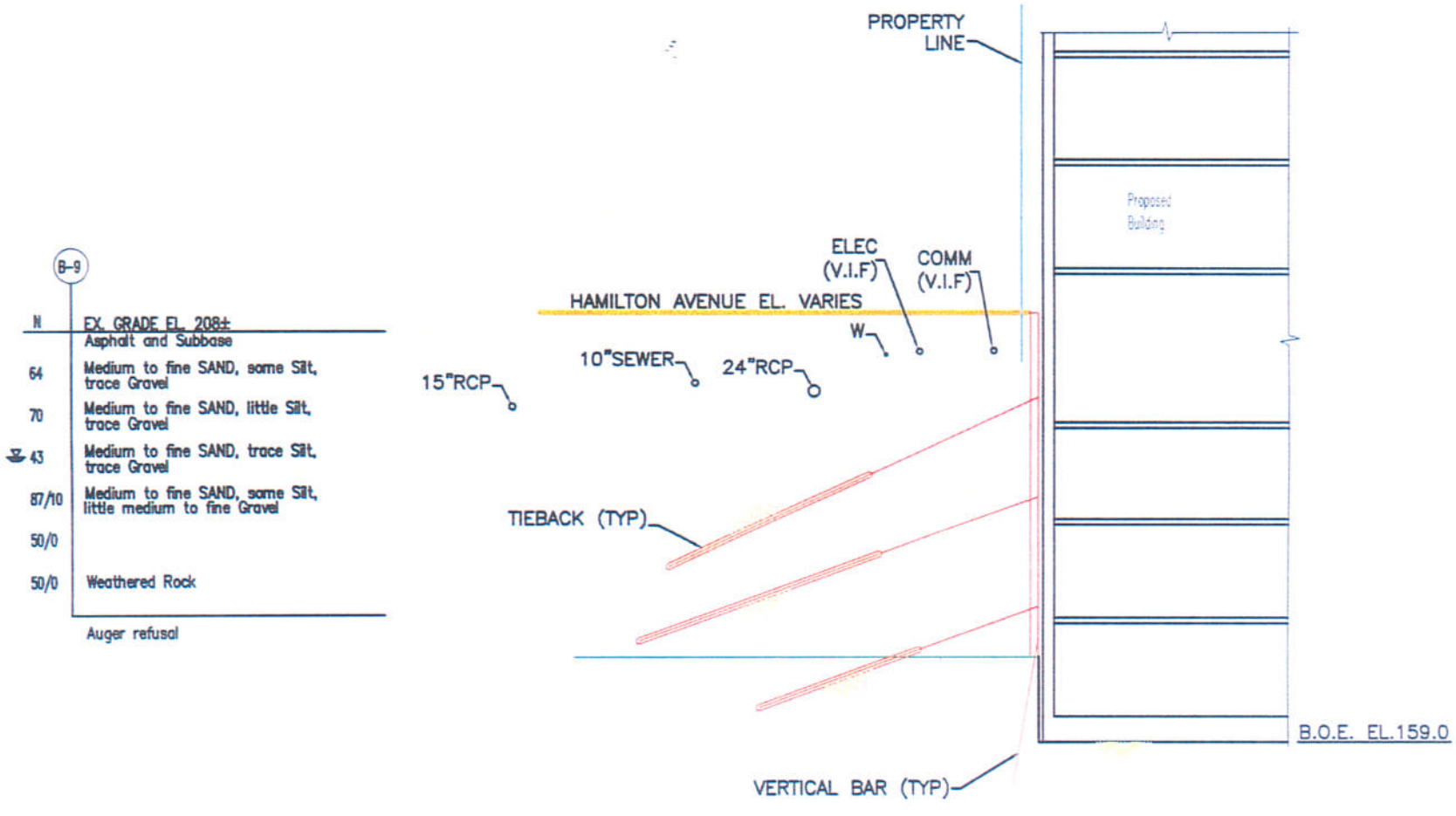

Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

S&W Redevelopment of North America, LLC

Syracuse, New York

DATE: 12/2005 JOB No: N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E-6
Soldier Pile Design

X-REF: NAMES?
2005/Dec/Syr/jlk
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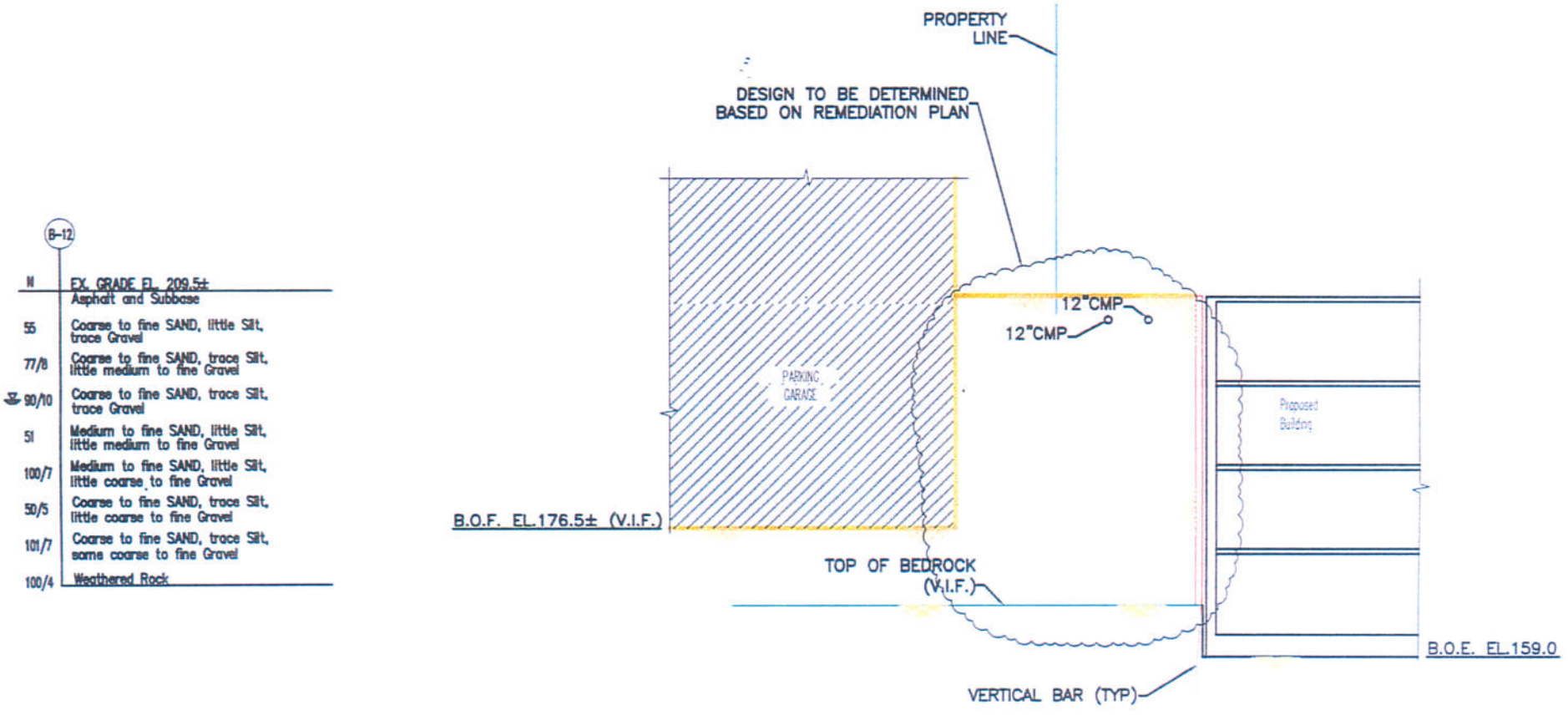


Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

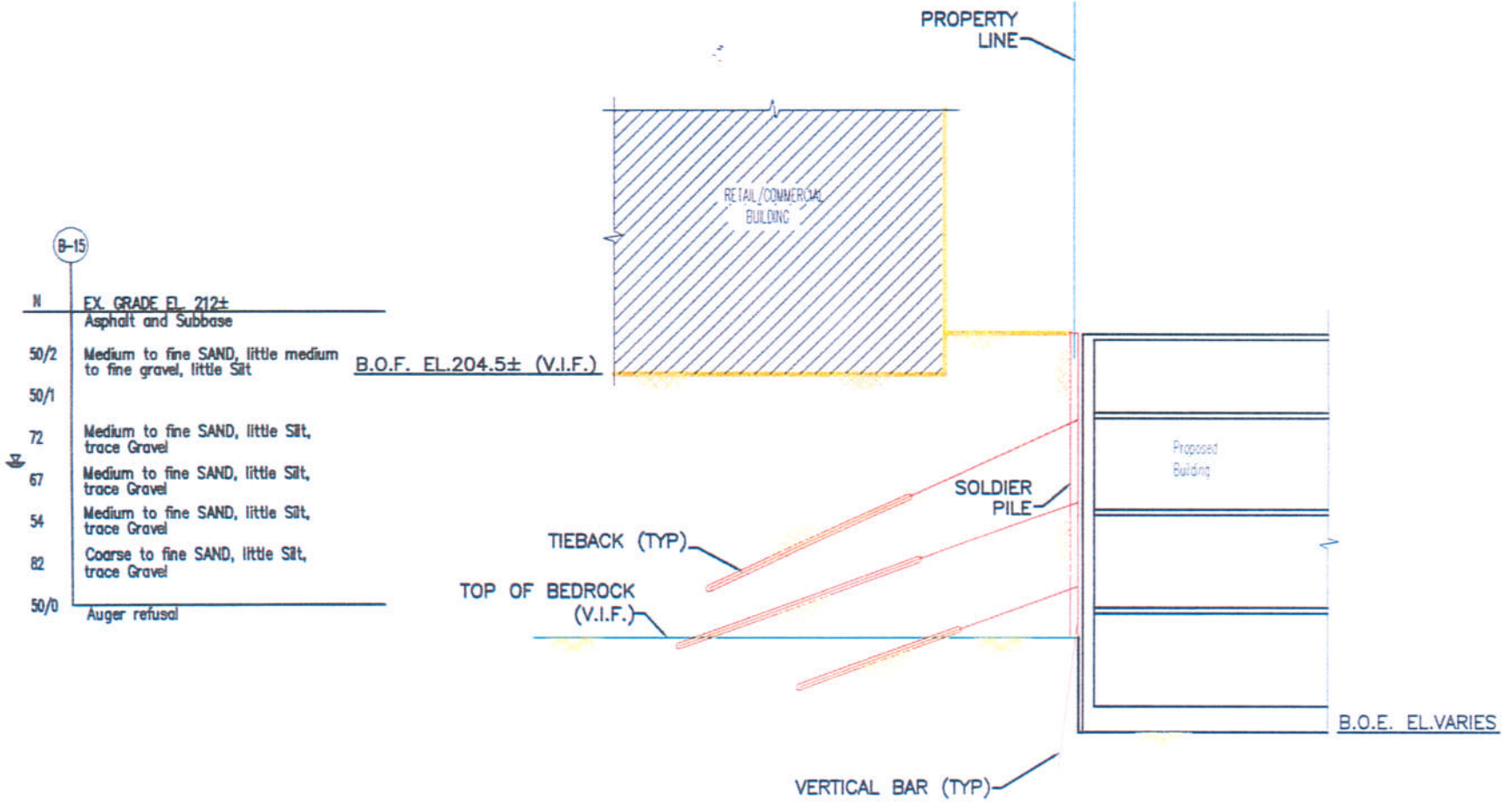
S&W Redevelopment of North America, LLC

Syracuse, New York

DATE: 12/2005 JOB No:N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E-7
Soldier Pile Design



Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

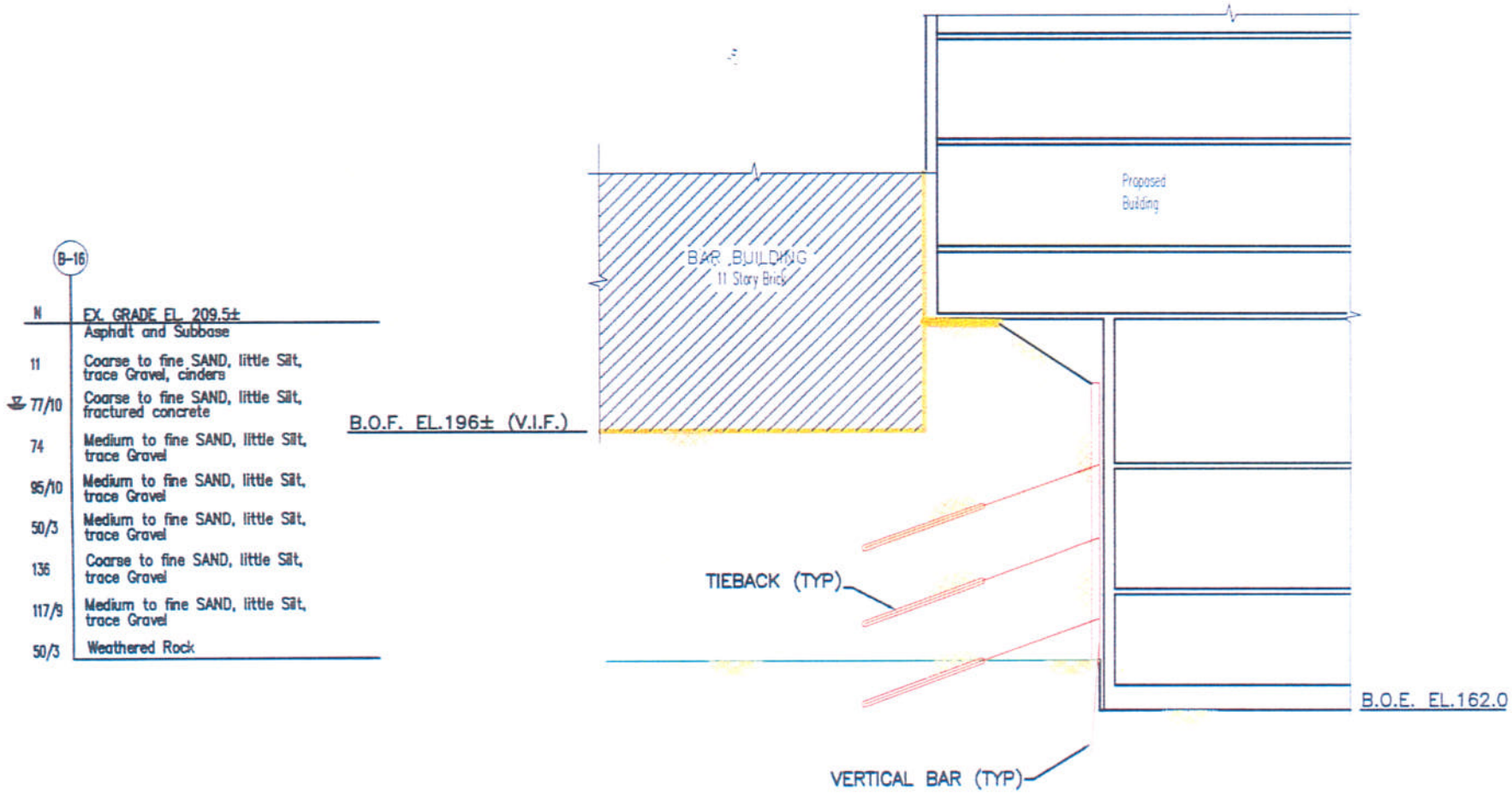
S&W Redevelopment of North America, LLC

Syracuse, New York

DATE: 12/2005 JOB No:N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E-8
Soldier Pile Design



Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

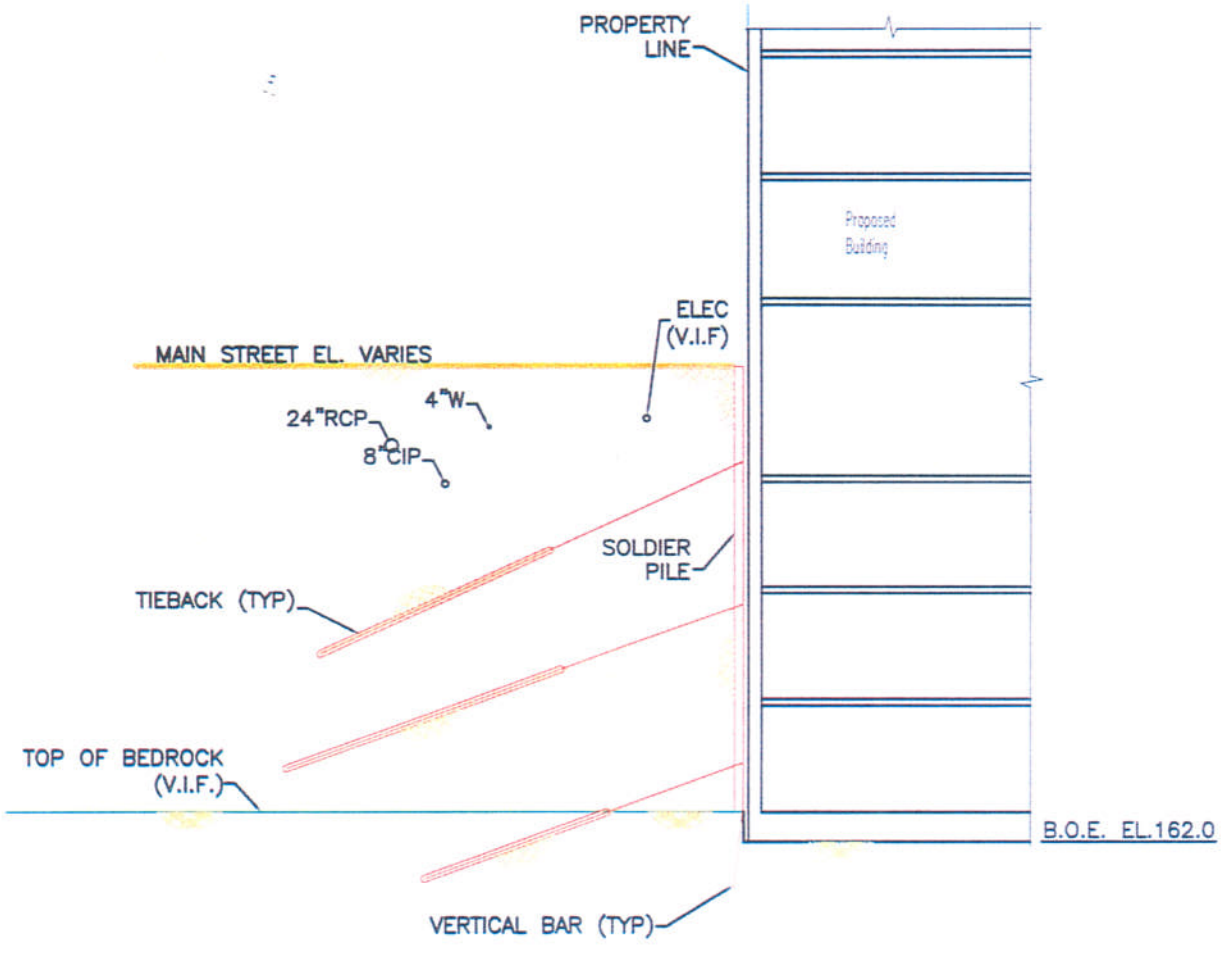
S&W Redevelopment of North America, LLC

Syracuse, New York

DATE: 12/2005 JOB No:N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E-9
Soldier Pile Design



Note: Design by Schnabel Foundatioin Co. Feb, 2005, as provided by J.M. Associates.

NOT TO SCALE

S&W Redevelopment of North America, LLC

Syracuse, New York

DATE: 12/2005 JOB No:N5023

Interim Remedial Measures (IRM) Work Plan
221 Main Street Site
City of White Plains
Westchester County, New York

Figure – E–10
Soldier Pile Design

MAIN STREET

COURT STREET

CHURCH STREET

COURT STREET (EXTENSION)

PHASE SECTIONS

PHASE SECTIONS

PROP. MONITORING WELL (TO CHECK DOWN-GRADIENT FLOW)

PROP. MONITORING WELL (TO CHECK DOWN-GRADIENT FLOW)

HAMILTON AVENUE

COTTAGE PLACE

LEGEND

- B-2 BORING NO. & APPROX. LOCATION BY SESI (DATE)
- BORING DONE BY GENERAL BORINGS IN FEB 1984
- BORING DONE IN MAR 1990
- (15') REFUSAL DEPTH TO AUGER PENETRATION ON COBBLES/ROCK
- TP-3 TEST PITS DONE IN MAR 1990
- MW-6 WELL LOCATION AS REPORTED BY CONTRACTOR'S LINE & GRADE SOUTH, LLC
- MW1 MONITORING WELL LOCATION (BY OTHERS) WELL NUMBERS ASSIGNED BY SESI
- PA-9 WELL LOCATION BY OZA GEOENVIRONMENTAL, INC (JUNE 1993)
- PA-9 BORING LOCATION BY OZA GEOENVIRONMENTAL, INC (JUNE 1993)
- MW1 WELL LOCATION AS REPORTED BY JM ASSOCIATES
- A1 WELL LOCATION AS REPORTED BY SESI (MAY 2005)
- PROP. MONITORING WELL LOCATIONS

REFERENCE
1. EXISTING EPA PARKING GARAGE INFORMATION OBTAINED FROM "FOUNDATION PLAN S-1", "FOUNDATION SECTIONS & DETAILS S-2", & "LONGITUDINAL BUILDING SECTION A-14" PREPARED BY ROMER ROSENWASSER ASSOC. P.C. DATED 5-12-1980.
2. PROPOSED BUILDING INFORMATION OBTAINED FROM "SUB-CELLAR 2" PREPARED BY DOSTAS KONDYLIS & PARTNERS, LLP., DATED 4-26-2005, REV. 8-19-2005.

30 0 30 60 90
Scale 1" = 30'

site design
environmental
soils / foundations
SESI CONSULTING ENGINEERS, PC

project: 221 MAIN, LLC
221 MAIN STREET , CITY OF WHITE PLAINS
COUNTY OF WESTCHESTER, N.Y.

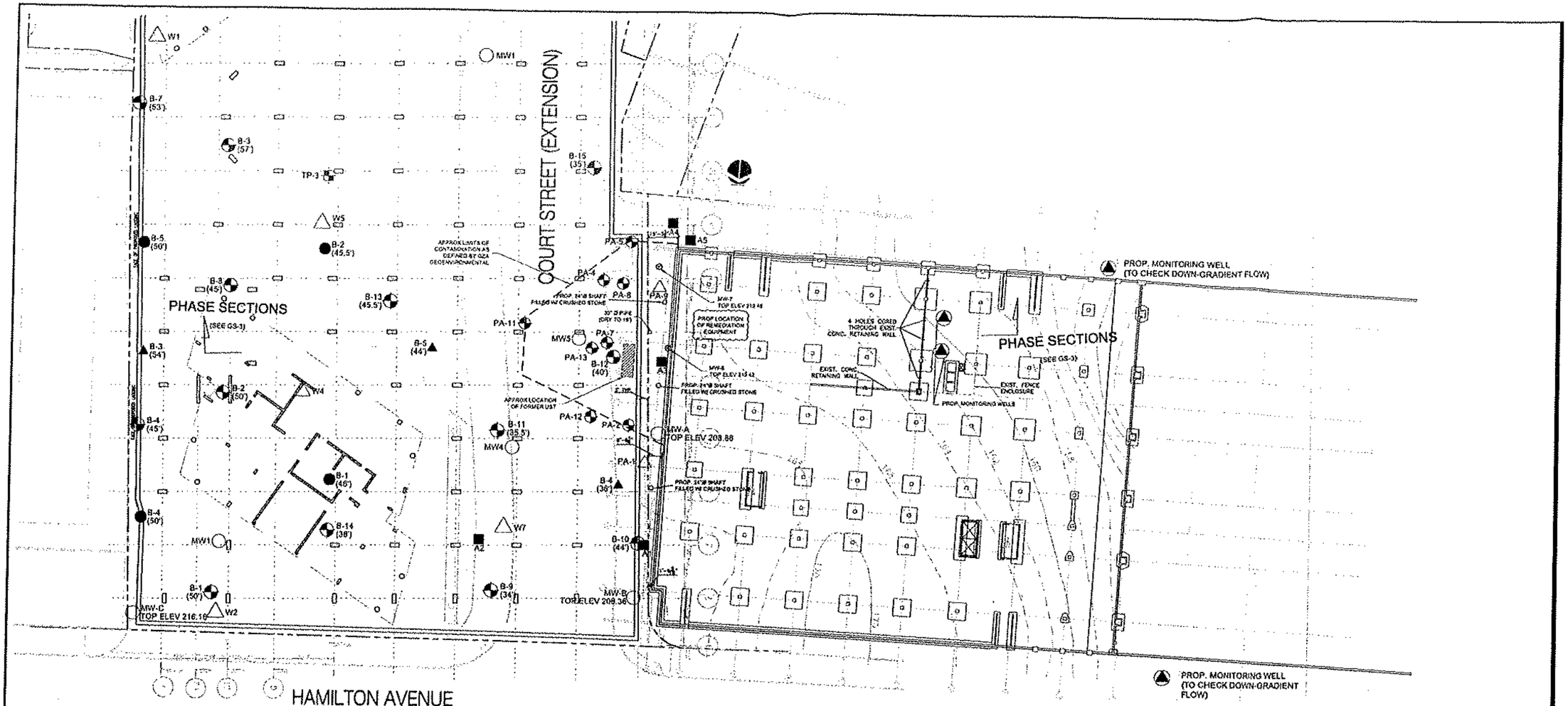
drawing title: OVERALL PROJECT PLAN

drawn by:	DT
checked by:	KQ
scale:	1"=30'
date:	5/25/05

no.	date	description	by
2	8/3/05	GENERAL REVISIONS	JWC
1	7/6/05	REMOVE SEGANT, REPLACE WITH SOLDIER BEAM	JWC

KENNETH QUAZZA, P.E.
N.Y. LIC. NO. 64669

job no. 6058
drawing no. GS-1
1 of 3



LEGEND

- B-2 BORING NO. & APPROX. LOCATION BY SESI (DATE)
- ● BORING DONE BY GENERAL BORINGS IN FEB 1984
- ▲ BORING DONE IN MAR 1990
- (49') REFUSAL DEPTH TO AUGER PENETRATION ON COBBLES/ROCK
- TP-3 TEST PITS DONE IN MAR 1990
- ⊙ MW-8 WELL LOCATION AS REPORTED BY CONTRACTOR'S LINE & GRADE SOUTH, LLC
- △W1 MONITORING WELL LOCATION (BY OTHERS) WELL NUMBERS ASSIGNED BY SESI
- PA-9 △ WELL LOCATION BY GZA GEOENVIRONMENTAL, INC (JUNE 1993)
- PA-5 BORING LOCATION BY GZA GEOENVIRONMENTAL, INC (JUNE 1993)
- MW4 ○ WELL LOCATION AS REPORTED BY JM ASSOCIATES
- A1 ■ WELL LOCATION AS REPORTED BY SESI (MAY 2005)
- PROP. MONITORING WELL LOCATIONS

REFERENCE
1. EXIST. SYSTA PARKING GARAGE INFORMATION OBTAINED FROM "FOUNDATION PLAN S-1", "FOUNDATION SECTIONS & DETAILS S-2" & "CONDITIONAL BUILDING SECTION A-14" PREPARED BY ROSEN NADEL ROSENWASSER ASSOC. P.C. DATED 9-13-1990.
2. PROPOSED BUILDING INFORMATION OBTAINED FROM "SUB-CELLAR 3" PREPARED BY COSTAS KONDYLIS & PARTNERS, LLP., DATED 6-29-2005, REV. 9-19-2005.

Scale 1" = 20'

site design
environmental
soils / foundations
SESI CONSULTING ENGINEERS PC

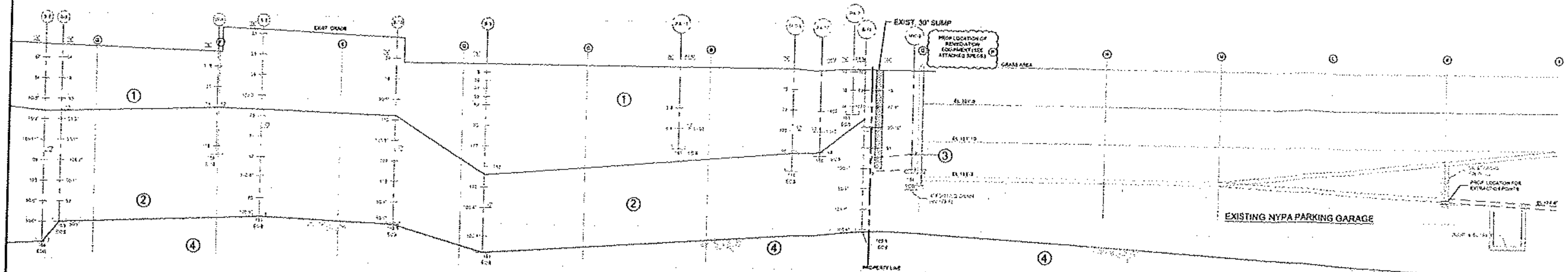
project: 221 MAIN, LLC
221 MAIN STREET , CITY OF WHITE PLAINS
COUNTY OF WESTCHESTER, N.Y.

drawing title: ENLARGED PROJECT PLAN

drawn by:	BT		
checked by:	KQ		
scale:	1"=20'		
date:	5/26/05	2	8/2/05 GENERAL REVISIONS MC
		1	7/5/05 REMOVE EIGHT RETAINING WITH SOLDIER BEAM MC
		rev	date description

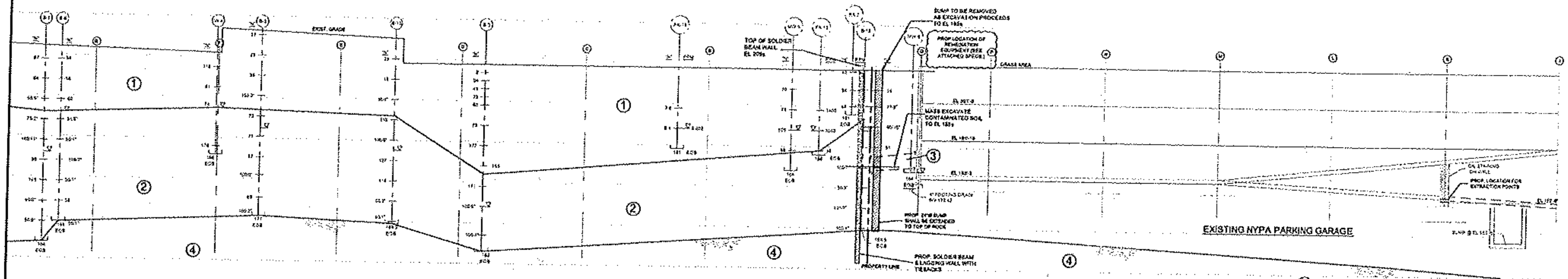
KENNETH QUAZZA, P.E.
N.Y. LIC. NO. 84669

job no. 6058
drawing no. GS-2
2 of 3



PHASE 1 - EXISTING CONDITIONS

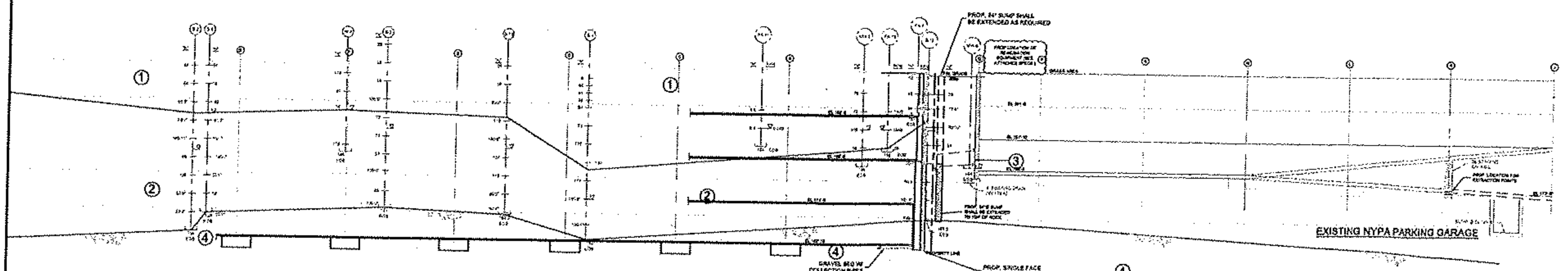
SCALE: H: 1"=10'; V: 1"=10'



TEMPORARY DEWATERING SHALL BE DETERMINED DURING CONSTRUCTION, DEPENDING ON ROCK CONDITIONS ENCOUNTERED.

PHASE 2 - SHEETED EXCAVATION

SCALE: H: 1"=10'; V: 1"=10'



PROPOSED UNDERGROUND GARAGE

PHASE 3 COMPLETED STRUCTURE

SCALE: H: 1"=10'; V: 1"=10'

PERMANENT DEWATERING SYSTEM TO BE DETERMINED DEPENDING ON ROCK CONDITIONS ENCOUNTERED.

SOIL TYPE LEGEND

1. Dense Brown medium to Fine SAND, little Silt, little medium to fine Gravel
2. Dense to very Dense Gray Brown medium to Fine SAND, little Silt, little medium to fine Gravel
3. Apparent Dense Sandy Silt
4. Fractured Gneiss Bedrock

REFERENCE
1. EXIST NYSPA PARKING GARAGE INFORMATION OBTAINED FROM "FOUNDATION PLAN S-1", "FOUNDATION SECTIONS & DETAILS S-2", & "LONGITUDINAL BUILDING SECTION A-14" PREPARED BY ROSER ROSENWASSER ASSOC. P.C. DATED 5-11-1988.
2. PROPOSED BUILDING INFORMATION OBTAINED FROM "SUB-CELLAR 3" PREPARED BY COSTAS KONDYLIS & PARTNERS, LLP., DATED 4-29-2005, REV. 5-18-2005.

site design
environmental
soils / foundations
CONSULTING ENGINEERS PC

project: 221 MAIN, LLC
221 MAIN STREET, CITY OF WHITE PLAINS
COUNTY OF WESTCHESTER, N.Y.

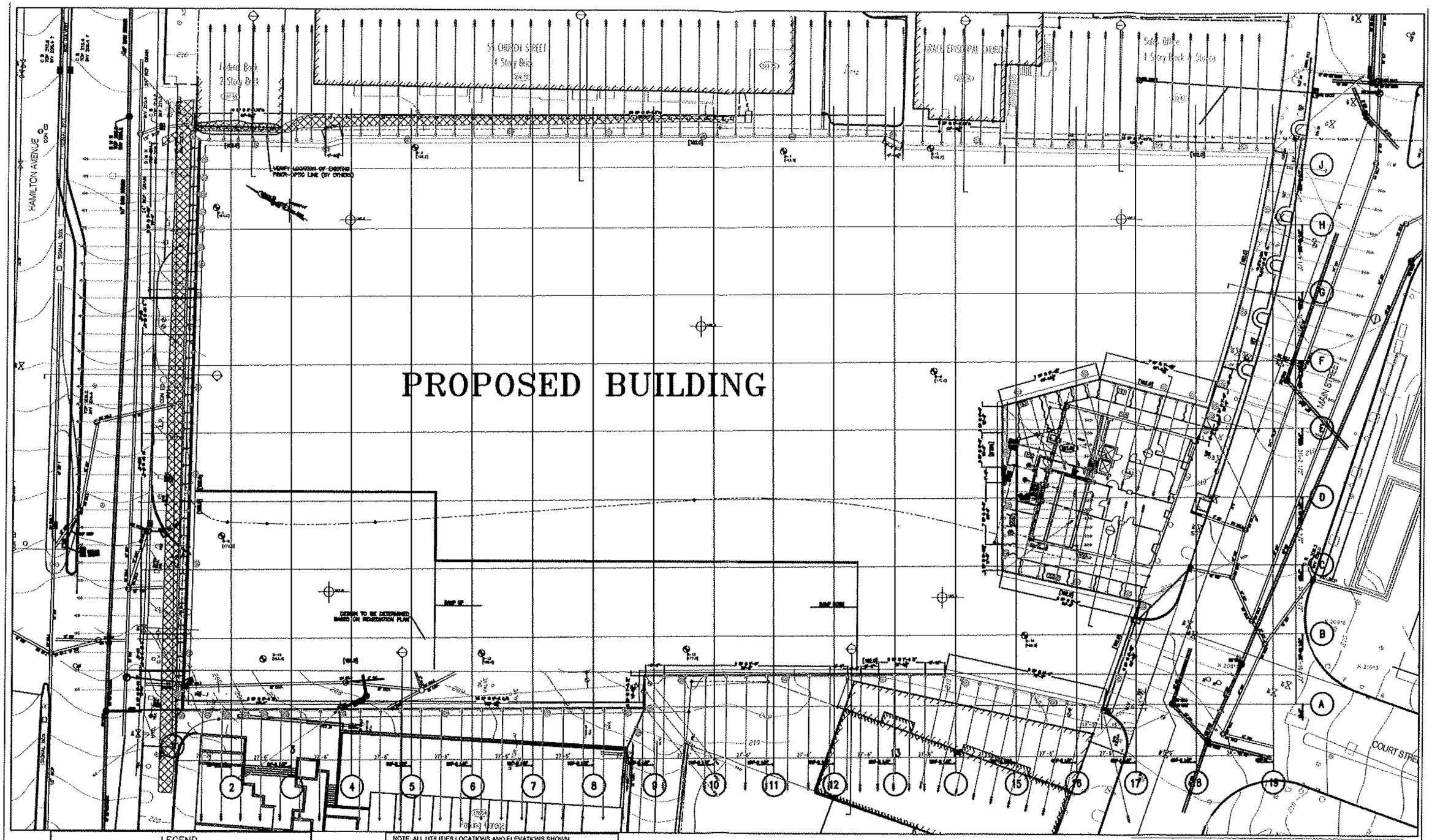
drawing title: GENERALIZED SUBSURFACE PROFILES

drawn by: JWG
checked by: KQ
scale: 1"=10'
date: 6/24/05

rev	date	description	
3	[illegible]	GENERAL REVISIONS	JWG
2	7/8/05	REMOVE SECANT, REPLACE WITH SOLDIER BEAM	JWG
1	[illegible]	MOVE SECANT WALL	JWG

KENNETH QUAZZA, P.E.
N.Y. LIC. NO. 64869

job no. 6058
drawing no. GS-3
3 of 3



LEGEND

- TOP OF LOWEST SLAB AT EXISTING BUILDING
- [182.0] BOTTOM OF PROPOSED FOOTING
- SOLDIER PILE NUMBER
- SOLDIER PILE
- TIEBACK NUMBER OF ARROWS DESIGNATE THE NUMBER OF TIERS
- BRACKET
- BRACKET PILE
- 205 EXISTING GRADE CONTOUR
- UNDERPINNING PIT
- UNDERPINNING PIT NUMBER
- B-4 [164.5] BORING NUMBER, AUGER REFUSAL ELEVATION
- TOP OF ROCK CORE ELEVATION
- APPROXIMATE BORING LOCATION
- 165.0 TOP OF SLAB ELEVATION

NOTE: ALL UTILITIES LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE. VERIFY DEPTH AND LOCATION OF THE UTILITIES IN FIELD PRIOR TO PILE/TIEBACK INSTALLATION.

Harry W. Schnabel, P.E.
New York P.E. No. 075573-1

REVISIONS

NO	DATE	DESCRIPTION
3	05/12/05	BAR BUILDING REVISIONS
4	06/01/05	BAR BUILDING REVISIONS
5	06/16/05	BAR BUILDING, HAMILTON AVE REVISIONS
6	07/15/05	WEST SIDE SHORING REVISION

Schnabel Foundation Company
Engineers and Contractors
200 Turnpike Road
Southborough, Massachusetts
Atlanta • Boston • Denver • Chicago
Houston • Los Angeles • Philadelphia

EXCAVATION SUPPORT PLAN

221 MAIN STREET

White Plains, New York

Date: 02/04/05 | Job Number: 06-3688

Scale: 1/16"=1'-0" | Drawing No: SFC-2