

TASK 210: SUBSURFACE SITE INVESTIGATION

Route 25 Intersection Improvements Monroe & Trumbull, Connecticut

Volume 1

ConnDOT Assignment No. 201-2300
ConnDOT Project No. 144-181

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November 6, 2003

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1.0 INTRODUCTION

On behalf of the Connecticut Department of Transportation (ConnDOT), Maguire Group Inc. has conducted a Task 210 - Subsurface Site Investigation in association with the Route 25 Intersection Improvements in Monroe and Trumbull, Connecticut. The project involves roadway improvements to Route 25 at four intersections identified as Intersection 1 through Intersection 4 in Monroe and Trumbull, Connecticut. Specific activities involve the installation of turning lanes at the Route 25 and Route 111 intersection in Trumbull (Intersection 1); the widening of Route 25 to accommodate a left-turn lane onto Tashua Road in Trumbull (Intersection 2); the widening of Route 25 to accommodate a left-turn lane onto Purdy Hill Road in Monroe (Intersection 3); and the widening of Route 25 to accommodate left-turn lanes onto Pepper Street and Easton Road (Route 59) in Monroe (Intersection 4). Figure 1 depicts the project area.

Based upon a review of the construction plans, it is anticipated that the project will involve rights-of-way taking, cut and fill activities, drainage structure improvements, and utility realignments. This Task 210 - Subsurface Site Investigation was conducted in areas of anticipated construction and/or right-of-way activities, adjacent to properties that were identified as having a moderate or high risk designation in MGI's March, 2002 Task 110 – Corridor Land Use Evaluation report.

The purpose of the Task 210 - Subsurface Site Investigation was to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts to be encountered during construction. It is anticipated that Task 310 Plans and Specifications will subsequently be prepared to assess construction related activities (i.e. proper storage, classification, transport and disposal of contaminated materials), in relationship to the environmental conditions prevalent within the project limits, as well as to specify remedial work to be included in the Contract Bid Documents.

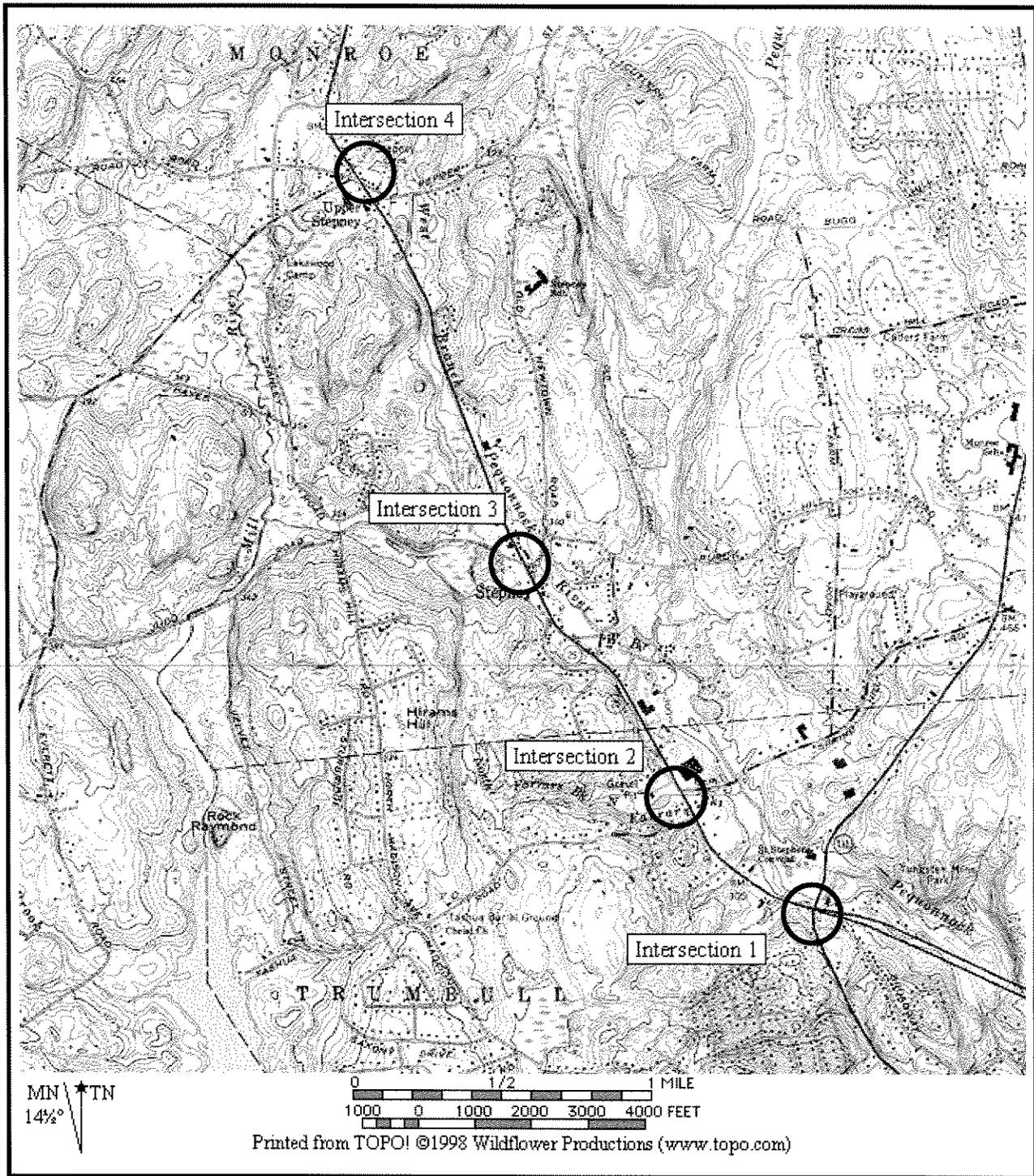


FIGURE 1 – SITE LOCATION PLAN
Intersection Improvements of Route 25
Monroe & Trumbull, Connecticut

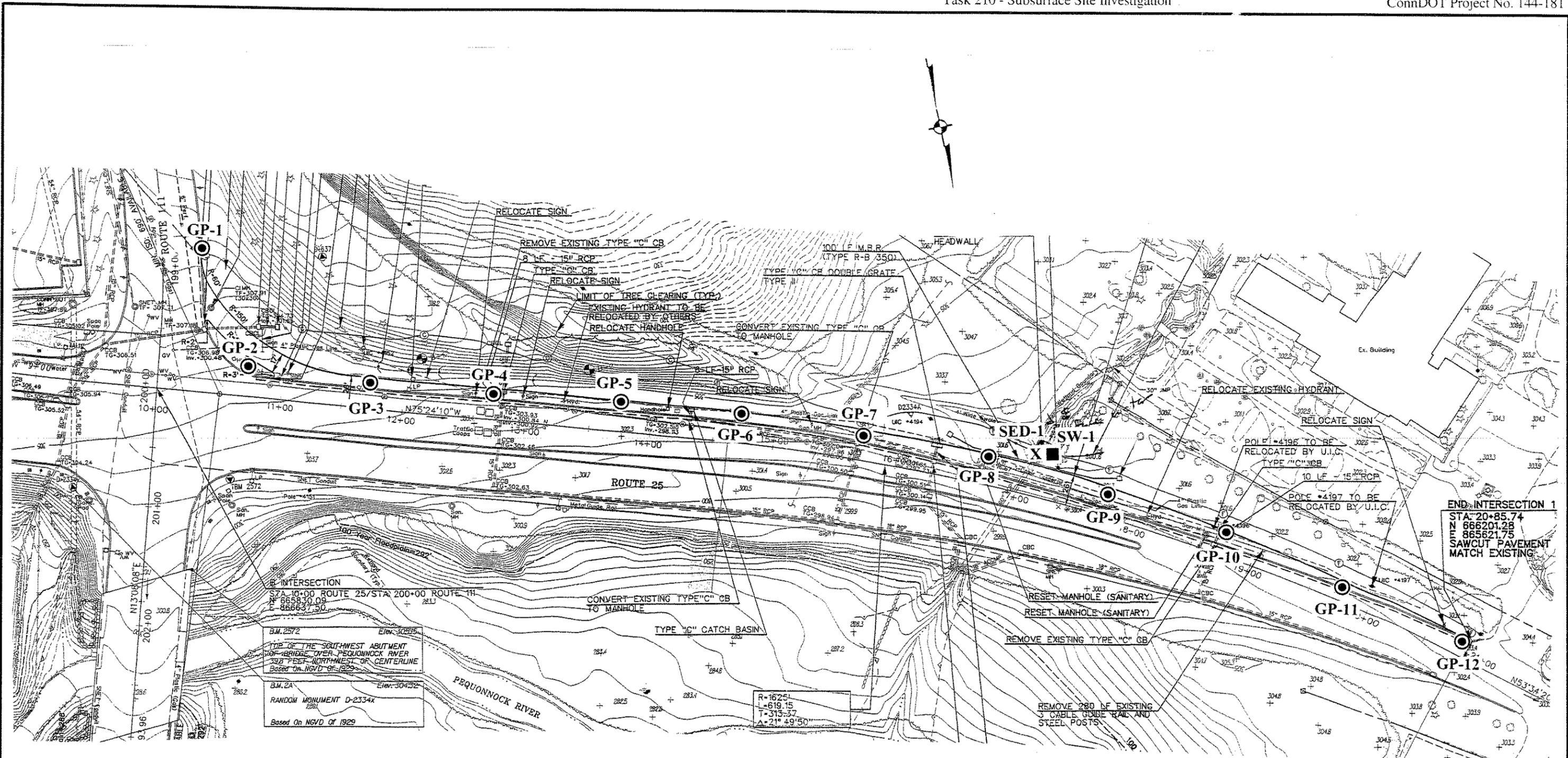
2.0 SITE DESCRIPTION

The Task 210 - Subsurface Site Investigation was conducted on land owned by the State of Connecticut and the Towns of Monroe and Trumbull in areas of anticipated construction and/or right-of-way activities, adjacent to properties that were identified as having a moderate or high risk designation in MGI's March, 2002 Task 110 – Corridor Land Use Evaluation report. The properties adjacent to Intersection 1 consist of a nursery and undeveloped land. The properties adjacent to Intersection 2 consist of residential parcels, a commercial office/warehouse building, and undeveloped land. The properties adjacent to Intersection 3 consist of commercial businesses, a gas station, a plaza shopping center containing a paint store and dry cleaner, a funeral home, a used car dealer/auto repair garage, residences, and undeveloped land. The properties adjacent to Intersection 4 consist of large shopping center plazas, smaller commercial businesses, a church, an automotive repair garage, a used car dealer, and undeveloped land. The site area is depicted in Figures 2a to 2d - Task 210 Project Area & Sampling Locations.

3.0 LOCAL ENVIRONMENT & RECEPTORS

3.1 Groundwater & Topography

According to the Connecticut Department of Environmental Protection (CTDEP) 1985 Adopted Water Quality Classifications for the Southwest Coast Basin, the groundwater classification for the Intersection 1, 3, and 4 project areas is GA. The groundwater classification for the Intersection 2 project area is also GA, except for the northeastern portion, which is classified as GB/GAA. A GA groundwater classification indicates that the groundwater is within the influence of private and public water supply wells. A GB/GAA groundwater classification indicates that the groundwater is within the influence of private and public water supply wells, but the groundwater has been impacted by waste discharges, spills or leaks of chemicals, or land use impacts. The goal is to restore the groundwater quality back to GAA drinking water standards. Groundwater was encountered at several boring locations at depths ranging from 5 to 9 feet below grade.



LEGEND

- GP = Geoprobe Boring
- X SED = Sediment Grab Sample
- SW = Surface Water Grab Sample

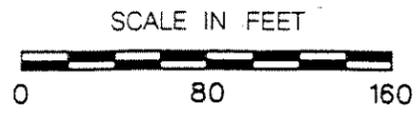


Figure 2a - Task 210 Project Area & Sampling Locations
 Intersection 1
 Route 25 Intersection Improvements - Monroe & Trumbull, Connecticut

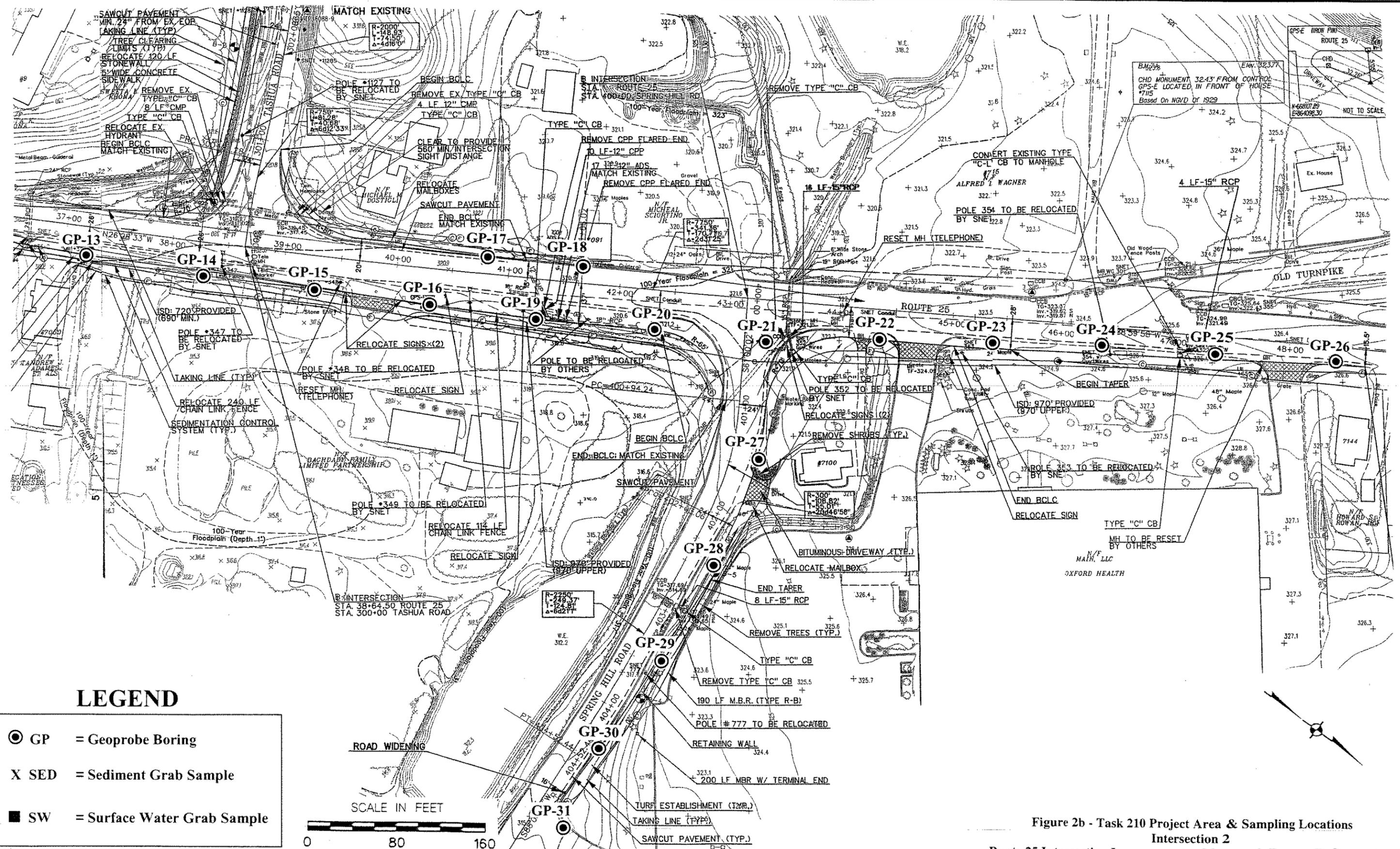
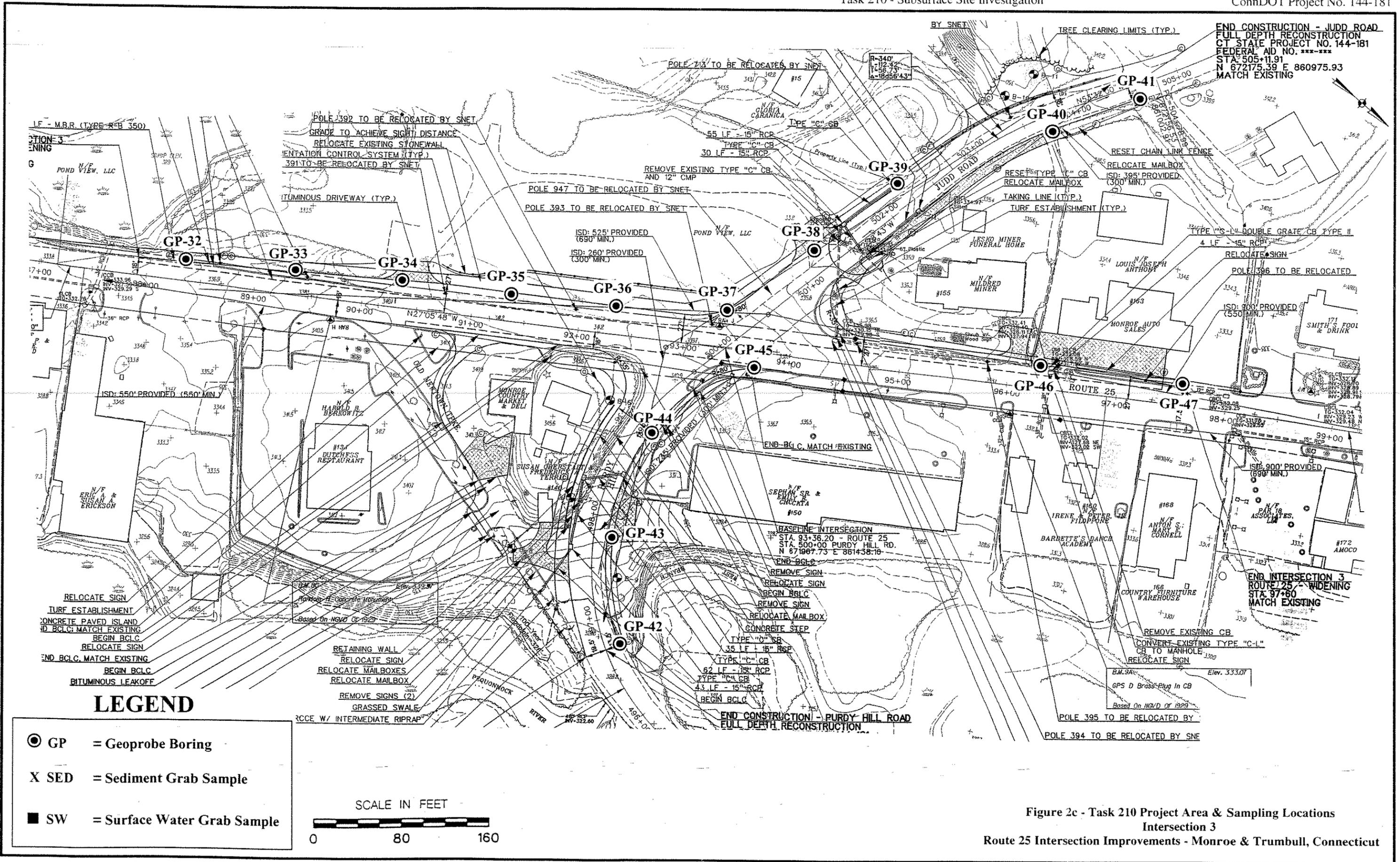
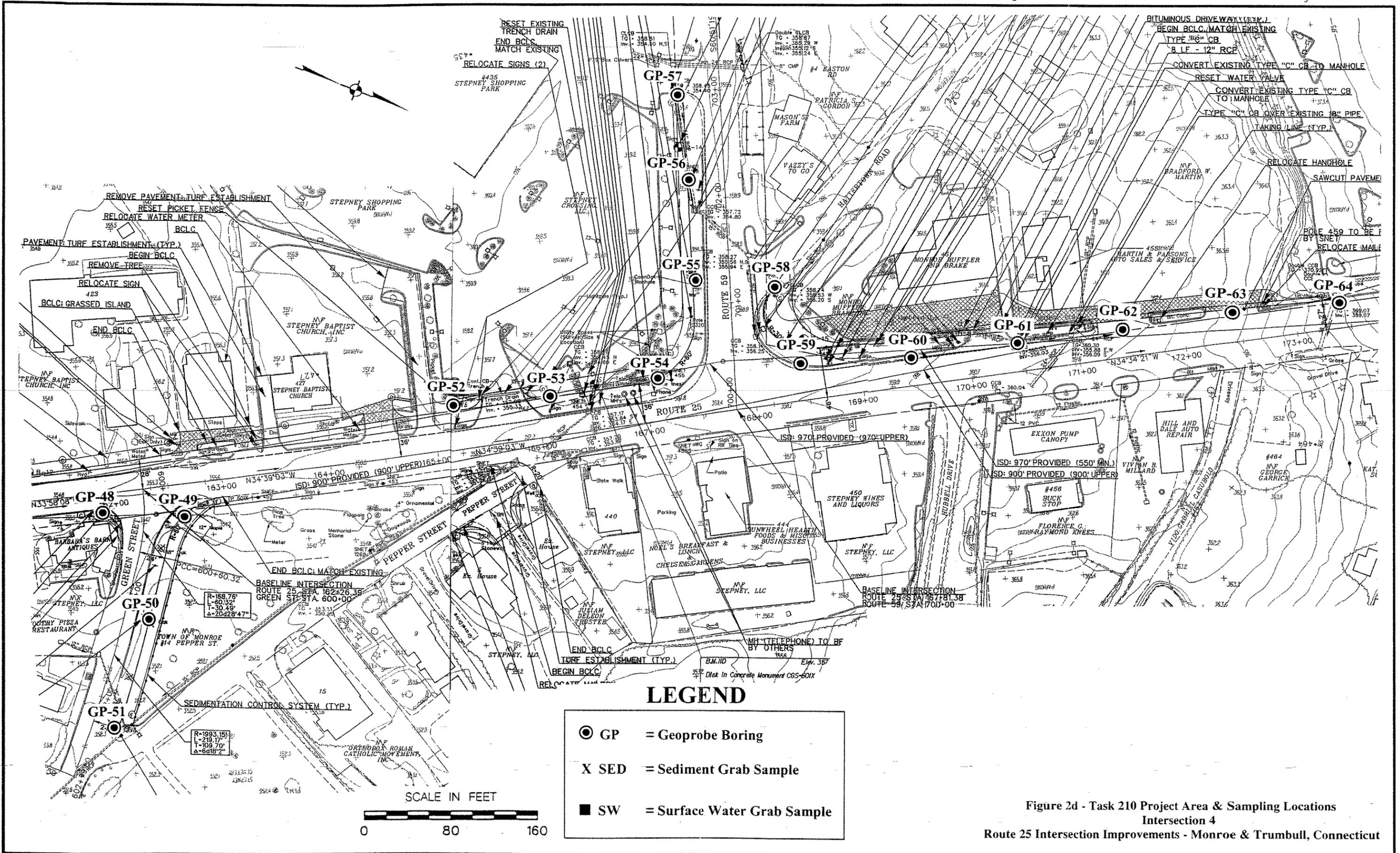


Figure 2b - Task 210 Project Area & Sampling Locations
 Intersection 2
 Route 25 Intersection Improvements - Monroe & Trumbull, Connecticut





The properties within the project corridor have private wells, or are connected to the Bridgeport Hydraulic Company's public water supply distribution system.

The project area is located within the Southwest Eastern Regional Basin, within the Southwest Coast Major Drainage Basin. The Pequonnock River runs along the eastern portion of Intersection 1 area. The Pequonnock River is classified as a Class "B/A" surface water body, which indicates that it does not meet Class "A" standards.

3.2 Geology

The Surficial Materials Map of Connecticut depicts the surficial soil of the Intersection 2, 3, and 4 areas as the Charlton Hollis Formation, which is described as brown sandy soils with a friable, loamy substratum, and shallow sandy soils over bedrock. The surficial soil of the Intersection 1 portion of the project area is the Paxton-Woodbridge Formation, which is described as a brown, loamy soil with a firm substratum. The Bedrock Geological Map of Connecticut, compiled by John Rodgers in 1985, indicates that the bedrock unit underlying the majority of the project area is the Collinsville Formation, which is a gray and silvery, medium to coarse-grained schist and a dark fine to medium-grained amphibolite and hornblende gneiss. The bedrock unit underlying the northern portion of the Intersection 1 and 2 areas is the Basal Member of the Straits Schist, which is a gray gneiss, with amphibolite, marble, and quartzite.

Soils encountered during this investigation consisted of brown to gray sand and silt units with varying amounts of gravel and cobbles. A gray granitic gneiss and schist unit was encountered in nearly all of the borings at depths ranging from 2 to 12 feet below the ground surface.

4.0 SUBSURFACE INVESTIGATION

Based upon the industrial and commercial nature of the properties surrounding the Route 25 Intersection Improvements project area, a comprehensive sampling program was conducted. The following subsections detail the investigation.

4.1 Geoprobe® Soil Borings & Soil Sample Analyses

On September 25, 26, 29, and October 1, 2003, sixty-four (64) Geoprobe® soil borings (GP-1 to GP-64) were advanced throughout the project corridor. The Geoprobe® borings were advanced by Logical Environmental Solutions, under the direction of MGI. The locations of the Geoprobe® soil borings are depicted on Figures 2(a) to 2(d) - Task 210 Project Area & Sampling Locations.

The Geoprobe® soil borings were advanced to 12 feet below grade or sampler refusal utilizing a 4-foot long, 2-inch diameter Macro Core Sampler with dedicated acetate liners. The soil samples were visually inspected in the field for staining, and described as to physical characteristics and soil type. In addition, the soil samples were screened in the field for total volatile organic compounds utilizing a Photovac photoionization detector (PID). Soil boring logs were generated in the field by Maguire field personnel. The boring logs denote the types of soil encountered, the depth to groundwater and/or bedrock, the total depth reached in each boring, and the highest observed PID reading. Copies of the boring logs are included at the end of this report in Appendix A.

Based upon field screening results and visual observations, one (1) soil sample from each boring was placed in glassware supplied by Spectrum Analytical Laboratory, and stored in an ice-filled cooler. The first macro core sample from each boring was segregated and split into a 0' to 2' sample and a 2' to 4' sample. The soil sample collected from 2' to 4' below grade was selected for laboratory analyses if field screening and visual observation did not indicate the presence of contaminants in the other sample intervals. The analyses for each soil sample included volatile organic compounds (VOCs) utilizing EPA Method 8260, polycyclic aromatic hydrocarbons (PAHs) utilizing EPA Method 8270, petroleum hydrocarbons utilizing the Connecticut ETPH method, and total and SPLP RCRA 8 metals. Selected soil samples were also analyzed for pesticides (EPA Method 8081) and herbicides (EPA Method 8151).

All Geoprobe® soil borings were back-filled and patched upon completion utilizing clean sand and/or hydrated bentonite. All down-hole sampling equipment was decontaminated in accordance with Maguire's August 2003 Task 210 - Subsurface Site Investigation Work Plan.

4.2 Sediment Sample Collection & Analyses

The sediment from the wetland area associated with the Pequonnock River adjacent to Intersection 1 was sampled as part of this Task 210 investigation. One sediment sample (SED-1) was collected, and the sediment grab sample location is depicted on Figure 2a – Task 210 Project Area & Sampling Locations. The sediment sample was analyzed for VOCs utilizing EPA Method 8260, PAHs utilizing EPA Method 8270, petroleum hydrocarbons utilizing the Connecticut ETPH method, pesticides utilizing EPA Method 8081, herbicides utilizing EPA Method 8151, and total and SPLP RCRA 8 metals.

4.3 Groundwater Sample Collection & Groundwater Analyses

Five (5) groundwater grab samples (GP-19, GP-40, GP-55, GP-56, & GP-62) were collected from selected borings in which groundwater was encountered. The groundwater grab samples were collected by placing dedicated PVC screen and riser casing into the borehole. Dedicated polyethylene tubing was inserted into the casing and groundwater was drawn through the tubing using a low-flow peristaltic pump. The groundwater samples were placed in laboratory supplied glassware, and stored in an ice-filled cooler. The groundwater samples were analyzed at Spectrum Analytical for VOCs utilizing EPA Method 8260, TPH utilizing the Connecticut ETPH method, PAHs utilizing EPA Method 8270, and total RCRA 8 metals. Selected samples were also analyzed for pesticides (EPA Method 8081) and herbicides (EPA Method 8151).

4.4 Surface Water Sample Collection & Analyses

The surface water from the wetland area associated with the Pequonnock River adjacent to Intersection 1 was sampled as part of this Task 210 investigation. One surface water sample (SW-1) was collected, and the surface water sample location is depicted on Figure 2a – Task 210 Project Area & Sampling Locations. The surface water sample was analyzed for VOCs (EPA Method 8260), PAHs (EPA Method 8270), petroleum hydrocarbons (Connecticut ETPH), pesticides (EPA Method 8081), herbicides (EPA Method 8151), and total RCRA 8 metals.

4.5 Project Quality Assurance/Quality Control Practices

To assess the collection of samples in the field in terms of the sampling techniques and decontamination procedures, quality control and quality assurance samples were collected on each day of sampling activities. Four (4) trip blanks were prepared by Spectrum Analytical and four (4) field blank water samples were collected during the field investigation. The field blank samples were prepared by pouring laboratory supplied de-ionized water through a macro core liner and cutting shoe, and collecting the resulting rinsate in appropriate sample containers. The trip blank and field blank samples were stored with the daily samples in the sample cooler until subsequent delivery to the laboratory for analysis. The field blanks were analyzed for the same parameters specified for the daily samples. The trip blanks were analyzed for VOCs.

All samples were stored in a manner that preserved the integrity of the sample chemistry. Samples intended for organic analyses were stored in an ice-filled cooler until delivery to the laboratory. Chain-of-Custody (COC) forms were filled out and accompanied all samples as a legal record of possession of the sample. The COC was initiated in the field and accompanied the containers during collection, transportation to the lab, analysis, and final disposal of the sample. All sampling equipment was either dedicated to a specific sample or was decontaminated prior to and between each use. Sampling equipment was not placed near solvents, gasoline, or materials that may have impacted the integrity of the samples.

5.0 DISCUSSION OF SAMPLE RESULTS

5.1 Regulatory Criteria

The CTDEP adopted Remediation Standard Regulations (Regulations of Connecticut State Agencies, Section 22a-133k-1 to 3 and 22a-133q-1) as of January 31, 1996. The Remediation Standard Regulations (RSRs) apply to any site undergoing voluntary remediation under Public Acts 95-183 or 95-190, a transfer of an “establishment” under Public Act 95-183, or any site as ordered by the CTDEP Commissioner. The Regulations also outline the processes for establishing alternative site-specific numerical standards for certain sites, upon approval by the CTDEP.

The RSRs criteria applicable to the soil, sediment, groundwater, and surface water sampled during this investigation are summarized below. The application of these RSRs to the results of the laboratory analyses from this investigation is discussed in subsections 5.2, 5.3, 5.4 and 5.5 of this section.

Soils Criteria: The RSRs are organized into two sets of criteria: the Direct Exposure Criteria (DEC) and the Pollutant Mobility Criteria (PMC). The DEC and PMC are briefly explained in the following sub-sections, in relation to how they would be applicable to the types of analyses conducted on the soil samples collected for this investigation. Please refer to the RSRs for a complete explanation of the Regulations.

Direct Exposure Criteria

The purpose of the Direct Exposure Criteria (DEC) is to protect human health from risks associated with the direct contact with or ingestion of various common soil contaminants. The DEC are applicable to soil within approximately 15 feet of the ground surface. Concentrations of contaminants are evaluated based upon mass-based analyses and different criteria are

established for residential and commercial/industrial properties. The use of the less stringent commercial/industrial standards requires the placement of a land use restriction on the property. The DEC is not applicable to inaccessible soils, including soil more than 4 feet below the ground surface, 2 feet below pavement greater than 3 inches thick, or below an existing building, provided that an Environmental Land Use Restriction (ELUR) is placed in effect for the property.

Pollutant Mobility Criteria

The purpose of the Pollutant Mobility Criteria (PMC) is to evaluate the potential for contaminants to leach from the soil in concentrations that may degrade groundwater quality. Different numerical criteria are established for GA and GAA groundwater areas, versus GB groundwater areas. Since the project corridors are situated in a GA and GB/GAA groundwater areas, the most stringent criteria apply.

Groundwater Criteria: Contaminants in the groundwater are compared either to background quality or the Groundwater Protection Criteria (GPC), the Volatilization Criteria, as well as the Surface Water Protection Criteria (SWPC). The GPC, Volatilization Criteria, and SWPC are briefly explained in the following sub-sections, in relation to how they would be applicable to the types of analyses conducted on the soil samples collected for this investigation.

Groundwater Protection Criteria

The purpose of the Groundwater Protection Criteria is to protect the groundwater quality in areas that have the potential to use groundwater as a drinking water resource (GA & GAA groundwater classification areas). Since the project corridors are situated in a GA and GB/GAA groundwater areas, the most stringent criteria apply.

Volatilization Criteria

The purpose of the Volatilization Criteria standard is to ensure that volatile organic compounds (VOCs) in groundwater do not pose an unacceptable risk to human health due to the inhalation of VOCs that may enter into a structure on the property. The Volatilization Criteria only apply when impacted groundwater is located within 15 feet of the ground surface or any structure. Different criteria exist for residential and commercial/industrial properties. The use of the less stringent commercial/industrial standards requires the placement of an ELUR on the property. Since groundwater was located within 15 feet of the ground surface, the Volatilization Criteria apply to this Site.

Surface Water Protection Criteria

The purpose of the Surface Water Protection Criteria (SWPC) standards are to ensure that groundwater discharging to a surface water body will not adversely effect surface water quality. Since groundwater likely discharges to the Pequonnock River, the SWPC apply to contaminants detected in the groundwater.

5.2 Results of Soil Sample Analyses

Soil samples collected during the advancement of the Geoprobe® borings were sent to Spectrum Analytical Laboratory for laboratory analyses. Summaries of the laboratory results from the Geoprobe® boring soil samples are presented in Tables 1(a) to 1(p), which are located at the end of this report, and copies of the soil sample analytical results are included in Appendix B. The following summarizes the results of the analyses conducted on the soil samples.

Varying concentrations of petroleum hydrocarbons (TPH) were detected in all of the borings from Below Reporting Limits (BRL) to 1,520 ppm. The following four soil samples contained TPH at concentrations that exceed the CTDEP Residential DEC of 500 ppm; GP-1, 0' to 2' sample (1,000 ppm); GP-15, 2' to 4' sample (1,520 ppm); GP-16, 2' to 4' sample (1,330 ppm), and GP-57, 2' to 4' sample (515 ppm). No other sample contained TPH at a concentration that exceeds any applicable CTDEP RSR criteria.

Thirteen (13) of the soil samples contained detectable concentrations of VOCs. The soil samples from borings GP-9 (0.036 ppm), GP-56 (0.0358 ppm) and GP-57 (0.00718 ppm) contained the VOC naphthalene at low concentrations that do not exceed any applicable CTDEP RSR criteria. In addition, the soil samples from borings GP-18, GP-42, GP-43, GP-44, GP-48, GP-50, GP-51, GP-52, GP-53, and GP-54 contained the VOC acetone at concentrations ranging from 0.103 ppm to 0.315 ppm. The concentrations detected do not exceed any applicable CTDEP RSR criteria. It should be noted that acetone is a common laboratory cleaning solvent and its presence in the samples may be due to laboratory contamination.

Several polynuclear aromatic hydrocarbon (PAH) compounds were detected at varying total concentrations ranging from Below Reporting Limits (BRL) to 296.84 ppm. Sixteen (16) soil samples contained concentrations of PAHs that exceed applicable CTDEP RSR Criteria. The 0 to 2 foot soil sample from boring GP-1 contained the compounds benzo(a)anthracene (22.1 ppm), benzo(a)pyrene (15.3 ppm), benzo(b)fluoranthene (21.0 ppm), benzo(k)fluoranthene (10.7 ppm), benzo(g,h,i)perylene (7.57 ppm), chrysene (23.0 ppm), dibenz(a,h)anthracene (1.29 ppm), fluoranthene (49.1 ppm), indeno(1,2,3-cd)pyrene (7.65 ppm), phenanthrene (32.1 ppm), and pyrene (45.2 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene were detected at concentrations that exceed their respective Commercial/Industrial DEC.

The 0 to 2 foot soil sample from boring GP-5 contained the compounds benzo(a)anthracene (1.28 ppm), benzo(a)pyrene (1.26 ppm), benzo(b)fluoranthene (1.36 ppm), and chrysene (1.58 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-14 contained the compounds benzo(a)anthracene (4.62 ppm), benzo(a)pyrene (4.23 ppm), benzo(b)fluoranthene (5.1 ppm), benzo(k)fluoranthene (2.85 ppm), chrysene (5.0 ppm), fluoranthene (10.9 ppm), indeno(1,2,3-cd)pyrene (2.1 ppm), phenanthrene (29.8 ppm), and pyrene (11.0 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-15 contained the compounds benzo(a)anthracene (25.6 ppm), benzo(a)pyrene (23.4 ppm), benzo(b)fluoranthene (24.0 ppm), benzo(k)fluoranthene (18.2 ppm), benzo(g,h,i)perylene (10.3 ppm), chrysene (25.3 ppm), dibenz(a,h)anthracene (2.86 ppm), fluoranthene (51.8 ppm), indeno(1,2,3-cd)pyrene (10.3 ppm), phenanthrene (29.8 ppm), and pyrene (53.7 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations that exceed their respective Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-16 contained the compounds benzo(a)anthracene (20.1 ppm), benzo(a)pyrene (19.4 ppm), benzo(b)fluoranthene (19.6 ppm), benzo(k)fluoranthene (15.5 ppm), benzo(g,h,i)perylene (9.14 ppm), chrysene (20.6 ppm), , dibenz(a,h)anthracene (2.18 ppm), fluoranthene (36.6 ppm), indeno(1,2,3-cd)pyrene (9.09 ppm), phenanthrene (16.4 ppm), and pyrene (37.7 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations that exceed their respective Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-18 contained the compounds benzo(a)anthracene (1.34 ppm), benzo(a)pyrene (1.48 ppm), benzo(b)fluoranthene (1.72 ppm), and chrysene (1.83 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-19 contained the compounds benzo(a)anthracene (3.33 ppm), benzo(a)pyrene (3.78 ppm), benzo(b)fluoranthene (4.05 ppm), benzo(k)fluoranthene (2.77 ppm), chrysene (3.91 ppm), fluoranthene (8.62 ppm), indeno(1,2,3-cd)pyrene (1.73 ppm), phenanthrene (5.55 ppm), and pyrene (8.77 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-20 contained the compounds benzo(a)anthracene (3.03 ppm), benzo(a)pyrene (3.52 ppm), benzo(b)fluoranthene (3.66 ppm), benzo(k)fluoranthene (2.34 ppm), chrysene (3.5 ppm), fluoranthene (7.12 ppm), indeno(1,2,3-cd)pyrene (1.6 ppm), phenanthrene (4.59 ppm), and pyrene (7.79 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-22 contained the compounds benzo(a)anthracene (1.35 ppm), benzo(a)pyrene (1.77 ppm), benzo(b)fluoranthene (1.85 ppm), benzo(k)fluoranthene (1.1 ppm), and chrysene (1.67 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-34 contained the compounds benzo(b)fluoranthene (1.08 ppm) and chrysene (1.09 ppm) at concentrations that exceed their respective PMC. In addition, the compound benzo(b)fluoranthene was detected at a concentration that exceeds its Residential DEC.

The 2 to 4 foot soil sample from boring GP-39 contained the compounds benzo(a)anthracene (1.22 ppm), benzo(a)pyrene (1.4 ppm), benzo(b)fluoranthene (1.54 ppm), and chrysene (1.47 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-42 contained the compounds benzo(a)anthracene (2.03 ppm), benzo(a)pyrene (1.86 ppm), benzo(b)fluoranthene (2.21 ppm), benzo(k)fluoranthene (1.24 ppm), chrysene (2.15 ppm), and pyrene (4.75 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-44 contained the compounds benzo(a)pyrene (1.3 ppm), benzo(b)fluoranthene (1.32 ppm), and chrysene (1.28 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)pyrene and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-53 contained the compounds benzo(a)anthracene (1.33 ppm), benzo(a)pyrene (1.28 ppm), benzo(b)fluoranthene (1.45 ppm), and chrysene (1.81 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 4 to 6 foot soil sample from boring GP-56 contained the compounds benzo(a)anthracene (9.51 ppm), benzo(a)pyrene (8.03 ppm), benzo(b)fluoranthene (8.32 ppm), benzo(k)fluoranthene (5.15 ppm), chrysene (10.3 ppm), fluoranthene (23.9 ppm), fluorene (6.18 ppm), indeno(1,2,3-cd)pyrene (3.11 ppm), 2-methylnaphthalene (5.26 ppm), phenanthrene (28.1 ppm), and pyrene (25.1 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected at concentrations that exceed their respective Commercial/Industrial DEC.

The 2 to 4 foot soil sample from boring GP-57 contained the compounds benzo(a)anthracene (4.01 ppm), benzo(a)pyrene (3.89 ppm), benzo(b)fluoranthene (3.6 ppm), benzo(k)fluoranthene (2.59 ppm), chrysene (4.75 ppm), fluoranthene (7.45 ppm), indeno(1,2,3-cd)pyrene (3.0 ppm), phenanthrene (5.97 ppm), and pyrene (8.05 ppm) at concentrations that exceed their respective PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 4 to 6 foot soil sample from boring GP-55 did not contain detectable concentrations of PAHs or VOCs, and did not contain concentrations of contaminants that exceed any applicable CTDEP RSR criteria. However, the soil samples collected from 4 to 12 feet below grade from this boring location contained strong petroleum odors and elevated PID readings.

Twenty-four selected soil samples were analyzed for pesticides and herbicides. Herbicides were not detected in any of the soil samples. The soil samples from borings GP-2, GP-8, GP-15, GP-16, GP-18, GP-19, GP-20, and GP-48 contained the pesticides 4,4'-DDD (0.0201 to 0.0366 ppm), 4,4'-DDE (0.0178 to 0.0495 ppm), and 4,4'-DDT (0.0178 to 0.173 ppm) at low concentrations that do not exceed any applicable CTDEP RSR criteria.

Total concentrations of the metals arsenic, barium, cadmium, chromium, lead, and mercury were detected at varying concentrations in the soil samples throughout the project corridor. The following three samples contained total arsenic at concentrations that exceed its Residential and Commercial/Industrial DEC of 10 ppm: GP-30, 0 to 2 foot sample (10.2 ppm); GP-53, 2 to 4 foot sample (11.9 ppm); and GP-62, 4 to 8 foot sample (23.0 ppm). No other metals were detected at total concentrations that exceeded any applicable CTDEP RSR criteria.

Leachable barium, chromium, lead, and mercury (via SPLP) were detected at varying concentrations throughout the project corridor. The soil samples from borings GP-3 (1.19 ppm) and GP-8 (2.21 ppm) contained leachable barium at concentrations that exceed the PMC of 1.0 ppm. In addition, the soil samples from borings GP-1 (0.0184 ppm), GP-8 (0.0314 ppm), GP-13 (0.0126 ppm), GP-14 (0.0692 ppm), GP-15 (0.0568 ppm), GP-16 (0.185 ppm), GP-18 (0.0165 ppm), GP-29 (0.0238 ppm), GP-43 (0.0194 ppm), GP-44 (0.0198 ppm), GP-48 (0.0265 ppm), GP-52 (0.0202 ppm), GP-57 (0.0242 ppm), and GP-61 (0.0289 ppm) contained leachable lead at concentrations that exceed its PMC of 0.015 ppm. No other leachable metals were detected at concentrations that exceeded any applicable CTDEP RSR Criteria.

5.3 Results of Sediment Grab Sample Analyses

The sediment grab sample (SED-1) collected during the investigation was sent to Spectrum Analytical Laboratory for laboratory analyses. A summary of the laboratory results from the sediment grab sample is presented in Table 2, which is located at the end of this report, and copies of the sediment grab sample analytical results are included in Appendix C. The following summarizes the results of the analyses conducted on the sediment sample. For the purpose of comparison, the results were compared to the CTDEP RSR soil criteria.

The sediment sample did not contain detectable concentrations of petroleum hydrocarbons, pesticides, herbicides, and leachable (via SPLP) metals. The sediment sample contained the VOC acetone at a concentration of 0.36 ppm, which does not exceed any applicable CTDEP RSR criteria. Acetone is a common laboratory cleaning solvent and its presence in the sample may be due to laboratory contamination.

The PAHs fluoranthene (0.532 ppm) and pyrene (0.605 ppm) were detected at low concentrations in the sediment sample. In addition, the sediment sample contained total barium, chromium, and lead at low concentrations. The concentrations of PAHs and total metals detected in the sediment sample do not exceed any applicable CTDEP RSR criteria.

5.4 Results of Groundwater Grab Sample Analyses

The groundwater grab samples (GP-19, GP-40, GP-55, GP-56, and GP-62) collected during the advancement of the Geoprobe® borings were sent to Spectrum Analytical for laboratory analyses. Summaries of the laboratory results from the groundwater grab samples are presented in Tables 3(a) to 3(c), which are located at the end of this report, and copies of the groundwater analytical results are included in Appendix D. The following summarizes the results of the analyses conducted on the groundwater grab samples.

The groundwater samples did not contain detectable concentrations of pesticides and herbicides. The GP-56 groundwater sample contained the compound naphthalene at a concentration of 12.4 parts per billion (ppb) via the VOC analysis and 5.68 ppb via the PAH analysis. The concentrations of naphthalene detected do not exceed any applicable CTDEP RSR criteria. No other VOCs or PAHs were detected in any of the groundwater samples.

The GP-55 groundwater sample contained petroleum hydrocarbons at a concentration of 0.3 ppm, which exceeds the GPC of 0.1 ppm via the ETPH method. A visible petroleum sheen was observed on the groundwater collected from this location. No other sample contained detectable concentration of petroleum hydrocarbons.

The groundwater samples contained total arsenic, barium, cadmium, chromium, lead, and mercury at varying total concentrations. The GP-55 groundwater sample contained the metals chromium (0.116 ppm), lead (0.702 ppm), and mercury (0.00267 ppm) at total concentrations that exceed their respective CTDEP GPC and SWPC. In addition, the GP-56 groundwater sample contained total lead (0.0768 ppm) at a concentration that exceeds its GPC and SWPC. The GP-62 groundwater sample contained arsenic (0.144 ppm), barium (2.2 ppm), cadmium (0.014 ppm), lead (0.425 ppm), and mercury (0.00363 ppm) at total concentrations that exceed their respective GPC and SWPC. No other metals were detected at concentrations that exceeded any applicable CTDEP RSR criteria.

5.5 Results of Surface Water Sample Analyses

The surface water sample (SW-1) collected during the investigation was sent to Spectrum Analytical Laboratory for laboratory analyses. A summary of the laboratory results from the surface water sample is presented in Table 4, which is located at the end of this report, and copies of the sediment grab sample analytical results are included in Appendix E. The following summarizes the results of the analyses conducted on the surface water sample. For the purpose of comparison, the results were compared to the CTDEP RSR groundwater criteria.

The surface water sample did not contain detectable concentrations of VOCs, petroleum hydrocarbons, PAHs, pesticides, and herbicides. The surface water sample contained total barium at a concentration of 0.0117 ppm, which does not exceed any applicable CTDEP RSR criteria.

5.6 Quality Assurance/Quality Control Samples

The field blank (FB-1 to FB-4) samples were collected on each of the four sampling days. The field blank samples were analyzed for VOCs, TPH, PAHs, and total RCRA 8 metals. Field blanks FB-1, FB-3, and FB-4 were also analyzed for pesticides and herbicides. In addition, four trip blank samples (TB-1 to TB-4) provided by Spectrum Analytical were analyzed for VOCs.

The FB-2, FB-3, and FB-4 field blank samples contained the VOCs methyl tertiary butyl ether (MTBE) and toluene at low concentrations ranging from 1.23 to 5.74 ppb, and 2.5 to 3.72 ppb, respectively. The VOCs were not detected in any soil, sediment, groundwater, or surface water samples collected as part of this investigation. The concentrations of the VOCs detected in the blank samples are negligible and may be due to field or laboratory contamination. No other field or trip blank sample contained detectable concentrations of contaminants. Copies of the analytical reports associated with the quality assurance/quality control samples are included in Appendix F.

6.0 DISCUSSION OF AFFECTED RESOURCES

6.1 Areas of Environmental Concern

Based upon the results of laboratory analyses performed on soil and groundwater samples for this Task 210 investigation, fourteen (14) areas of environmental concern (AOECs) and one (1) groundwater AOEC have been identified where contaminants are present at concentrations that exceed applicable CTDEP RSR criteria. In addition, fifteen (15) low-level areas of environmental concern (LLAOECs) have been identified, where contaminants in the soil were detected at concentrations below applicable CTDEP RSR standards, but above laboratory detection limits. The locations of the AOECs and the LLAOECs within the project corridor are discussed in the following sections.

AOEC #1: Intersection 1: Trumbull, Route 111 North of Route 25: Sample GP-1:

Analytical results from the soil sample collected from boring GP-1 indicate the presence of TPH, PAH, and leachable lead contamination at elevated concentrations in shallow soil ranging from 0 to 2 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #2: Intersection 1: Trumbull, Route 25: Sample GP-3:

Analytical results from the soil sample collected from GP-3 indicate the presence of leachable barium contamination at a slightly elevated concentration in shallow soil ranging from 0 to 2 feet below grade. The contamination detected exceeds the PMC.

AOEC #3: Intersection 1: Trumbull, Route 25: Sample GP-5:

Analytical results from the soil sample collected from GP-5 indicate the presence of PAH contamination at slightly elevated concentrations in shallow soil ranging from 0 to 2 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #4: Intersection 1: Trumbull, Route 25: Sample GP-8:

Analytical results from the soil sample collected from GP-8 indicate the presence of leachable barium and lead contamination at slightly elevated concentrations in shallow soil ranging from 2 to 4 feet below grade. The contamination detected exceeds the PMC.

AOEC #5: Intersection 2: Trumbull, Route 25: Samples GP-13, GP-14, GP-15, GP-16, GP-18, GP-19 & GP-20:

Analytical results from the soil samples collected from GP-13, GP-14, GP-15, GP-16, GP-18, GP-19, and GP-20 indicate the presence of TPH, PAH, and leachable lead contamination at elevated concentrations in shallow soil ranging from 2 to 4 feet below grade. The contamination detected exceeds the PMC, and Residential & Commercial/Industrial DEC.

AOEC #6: Intersection 2: Trumbull, Route 25: Sample GP-22:

Analytical results from the soil sample collected from GP-22 indicate the presence of PAH contamination at slightly elevated concentrations in shallow soil ranging from 2 to 4 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #7: Intersection 2: Trumbull, Spring Hill Road: Samples GP-29 & GP-30:

Analytical results from the soil samples collected from GP-29 and GP-30 indicate the presence of leachable lead and total arsenic contamination at slightly elevated concentrations in shallow soil ranging from 0 to 4 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #8: Intersection 3: Monroe, Route 25: Sample GP-34:

Analytical results from the soil sample collected from GP-34 indicate the presence of PAH contamination at slightly elevated concentrations in shallow soil ranging from 2 to 4 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #9: Intersection 3: Monroe, Judd Road: Sample GP-39:

Analytical results from the soil sample collected from GP-39 indicate the presence of PAH contamination at slightly elevated concentrations in shallow soil ranging from 2 to 4 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #10: Intersection 3: Monroe, Purdy Hill Road: Samples GP-42, GP-43 & GP-44:

Analytical results from the soil samples collected from GP-42, GP-43, and GP-44 indicate the presence of PAHs and leachable lead contamination at slightly elevated concentrations in shallow soil ranging from 0 to 4 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #11: Intersection 4: Monroe, Route 25: Sample GP-48:

Analytical results from the soil sample collected from GP-48 indicate the presence of leachable lead contamination at slightly elevated concentrations in shallow soil ranging from 2 to 4 feet below grade. The contamination detected exceeds the PMC.

AOEC #12: Intersection 4: Monroe, Route 25: Samples GP-52, GP-53,

Analytical results from the soil samples collected from GP-52 and GP-53 indicate the presence of PAHs, leachable lead, and total arsenic contamination at slightly elevated concentrations in shallow soil ranging from 2 to 4 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #13: Intersection 4: Monroe, Route 59: Samples GP-55, GP-56 & GP-57:

Analytical results from the soil samples collected from GP-56, and GP-57 indicate the presence of petroleum hydrocarbons, PAHs, and leachable lead contamination at slightly elevated concentrations in shallow soil ranging from 2 to 6 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC. In addition, the 4 to 6 foot soil sample from boring GP-55 did not contain concentrations of contaminants that exceeded any applicable CTDEP RSR criteria, but the soil samples ranging from 4 to 12 feet below grade from this location contained strong petroleum odors and elevated PID readings.

AOEC #14: Intersection 4: Monroe, Route 25: Samples GP-61 & GP-62:

Analytical results from the soil samples collected from GP-61 and GP-62 indicate the presence of total arsenic and leachable lead contamination at elevated concentrations in shallow soil ranging from 2 to 8 feet below grade. The contamination detected exceeds the PMC, Residential DEC, and Commercial/Industrial DEC.

Groundwater AOEC

Analytical results from the groundwater samples collected from GP-55 and GP-56 indicate the presence of petroleum hydrocarbons, total arsenic, chromium, lead, and mercury at concentrations that exceed the GPC and SWPC. In addition, analytical results from the groundwater sample collected from GP-62 indicate the presence of total arsenic, barium, cadmium, lead, and mercury at concentrations that exceed the GPC and SWPC. Therefore, all construction dewatering fluids generated within the Intersection 4 project limits shall be considered contaminated and must be pumped to approved containers, and sampled prior to discharge.

Dewatering fluids generated within the remainder of the project limits shall be visually inspected for evidence of contamination, i.e. sheen, odor, etc., prior to discharge. If evidence of contamination is detected, the dewatering fluids shall be pumped to approved containers and sampled prior to discharge.

6.2 Low-Level Areas of Environmental Concern**LLAOEC #A:** Intersection 1: Trumbull, Route 25: Sample GP-2:

Analytical results from the soil sample collected from GP-2 indicate the presence of TPH, PAHs, and pesticides at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 2 feet below grade.

LLAOEC #B: Intersection 1: Trumbull, Route 25: Sample GP-4:

Analytical results from the soil sample collected from GP-4 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 2 feet below grade.

LLAOEC #C: Intersection 1: Trumbull, Route 25: Samples GP-6 & GP-7:

Analytical results from the soil samples collected from GP-6 and GP-7 indicate the presence of PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 2 feet below grade.

LLAOEC #D: Intersection 1: Trumbull, Route 25: Samples GP-9 & SED-1:

Analytical results from the soil and sediment samples collected from GP-9 and SED-1 indicate the presence of TPH, VOCs, and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 2 feet below grade.

LLAOEC #E: Intersection 2: Trumbull, Route 25, Sample GP-17:

Analytical results from the soil sample collected from boring GP-17 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 4 to 6 feet below grade.

LLAOEC #F: Intersection 2: Trumbull, Spring Hill Road: Sample GP-27:

Analytical results from the soil sample collected from boring GP-27 indicate the presence of PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 2 to 4 feet below grade.

LLAOEC #G: Intersection 2: Trumbull, Route 25: Samples GP-24, GP-25 & GP-26:

Analytical results from the soil samples collected from borings GP-24, GP-25, and GP-26 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 2 to 4 feet below grade.

LLAOEC #H: Intersection 3: Monroe, Route 25: Samples GP-32 & GP-33:

Analytical results from the soil samples collected from borings GP-32 and GP-33 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 4 feet below grade.

LLAOEC #I: Intersection 3: Monroe, Route 25: Samples GP-35 & GP-36:

Analytical results from the soil samples collected from borings GP-35 and GP-36 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 8 feet below grade.

LLAOEC #J: Intersection 3: Monroe, Judd Road: Sample GP-38:

Analytical results from the soil sample collected from boring GP-38 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 3 feet below grade.

LLAOEC #K: Intersection 3: Monroe, Judd Road: Samples GP-40 & GP-41:

Analytical results from the soil samples collected from borings GP-40 and GP-41 indicate the presence of PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 2 to 4 feet below grade.

LLAOEC #L: Intersection 3: Monroe, Route 25: Sample GP-47:

Analytical results from the soil sample collected from boring GP-47 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 2 to 4 feet below grade.

LLAOEC #M: Intersection 4: Monroe, Green Street & Route 25: Samples GP-49, GP-50 & GP-51:

Analytical results from the soil samples collected from borings GP-49, GP-50, and GP-51 indicate the presence of TPH, VOCs, and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 4 feet below grade.

LLAOEC #N: Intersection 4: Monroe, Route 25 & Route 59 Intersection: Samples GP-54, GP-58 & GP-59:

Analytical results from the soil samples collected from borings GP-54, GP-58, and GP-59 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 2 to 4 feet below grade.

LLAOEC #O: Intersection 4: Monroe, Route 25: Sample GP-64:

Analytical results from the soil sample collected from boring GP-64 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 3 feet below grade.

7.0 RECOMMENDATIONS

The results of this Task 210 – Subsurface Site Investigation for the Route 25 Intersection Improvements project in Monroe and Trumbull, Connecticut indicate the presence of petroleum hydrocarbon (TPH), semi-volatile compound (PAH), total arsenic, leachable barium, and leachable lead contamination in soil ranging from 0 to 8 feet below grade, at concentrations that exceed the applicable RSR criteria. In addition, results of groundwater samples collected indicate the presence of petroleum hydrocarbons, total arsenic, barium, cadmium, chromium, lead, and mercury contamination that exceeds the applicable RSRs. Fourteen (14) Areas of Environmental Concern (AOECs), one (1) groundwater AOEC, and fifteen (15) Low-Level Areas of Environmental Concern (LLAOECs) have been identified within the project corridor. Special considerations for treatment/disposal, dewatering activities, and worker health and safety must be given to these areas in order to ensure compliance with all local, State and Federal laws. Task 310 Plans and Specifications are therefore recommended for the areas of construction within the Areas of Environmental Concern and Low-Level Areas of Environmental Concern described in Section 6.0 above.

8.0 LIMITATIONS

All work product and reports provided by Maguire Group Inc. (MGI) in connection with the performance of this Task 210 - Subsurface Site Investigation are subject to the following limitations:

1. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services provided to ConnDOT.
2. In preparing this report, MGI has relied on certain information provided by State and local officials and information and representations made by other parties referenced therein, and on information contained in the files of State and/or local agencies made available to MGI at the time of this investigation. To the extent that such files are missing, incomplete or not provided to MGI, MGI is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, MGI did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this investigation.
3. The conclusions and recommendations contained in this report are based in part upon the data from subsurface explorations. The nature and extent of variations between these explorations may not become evident until further explorations are completed. If variations or other latent conditions become evident, it will be necessary to re-evaluate the conclusions and recommendations of this report.
4. The water level readings made for this investigation were made at the times and conditions stated on the boring logs. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, passage of time and other factors. Should additional data become available in the future, these data should be reviewed by MGI, and the conclusions and recommendations presented herein modified accordingly.

5. Where quantitative laboratory analyses have been conducted by an outside certified laboratory, MGI has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these tests.
6. If the conclusions and recommendations contained in this report are based, in part, upon various types of chemical data then the conclusions and recommendations are contingent upon the validity of such data. These data have been reviewed and interpretations made in the report. It should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by MGI and the conclusions and recommendations presented herein modified accordingly.
7. Chemical analyses were performed for specific parameters during the course of this investigation, as described in the text. However, it should be noted that testing for all known chemical constituents was not performed. The conclusions and recommendations contained in this report are based only upon the chemical constituents for which testing was accomplished.

The following qualifications apply to the undersigned's opinion:

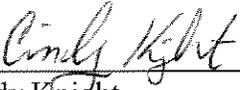
The activities described and opinions included herein are based on information gathered during this exploratory site investigation which was limited in scope in adherence to the terms of our agreement. The professional opinion provided herein is based on the information described in this report.

The information contained herein was prepared for the use of ConnDOT solely in conjunction with the task descriptions for this assignment. The conclusions and recommendations set forth in this report are based on site conditions at the time of the investigation. Future studies and findings could change the contents of this report. The professional opinions presented in this report have been developed by using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental engineering consultants practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional opinions included in this report.

Prepared by:

Approved by:

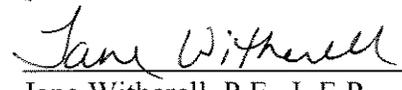
Reviewed by:



Cindy Knight
Logical Env. Solutions



David R. Stock, P.E.
Program Manager



Jane Witherell, P.E., L.E.P.
Principal Engineer

TABLES

**TABLE 1(a) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-1	GP-2	GP-3	GP-4	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	0'-2'	0'-2'	0'-2'	0'-2'		
CT ETPH - (ppm)	1,000	101	BRL	51.7	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
PAHs - Method 8270 (ppm)						
Acenaphthene	1.87	BRL	BRL	BRL	8.4 ppm	1,000/2,500 ppm
Acenaphthylene	3.87	BRL	BRL	BRL	8.4 ppm	1,000/2,500 ppm
Anthracene	8.49	BRL	BRL	BRL	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	22.1	0.586	BRL	0.362	1 ppm	1/7.8 ppm
Benzo(a)pyrene	15.3	0.465	BRL	0.367	1 ppm	1/1 ppm
Benzo(b)fluoranthene	21.0	0.661	BRL	0.408	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	10.7	0.375	BRL	BRL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	7.57	BRL	BRL	BRL	4.2 ppm	1,000/2,500 ppm
Chrysene	23.0	0.778	BRL	0.517	1 ppm	84/780 ppm
Dibenz(a,h)anthracene	1.29	BRL	BRL	BRL	1 ppm	1/1 ppm
Fluoranthene	49.1	1.6	0.285	0.941	5.6 ppm	1,000/2,500 ppm
Fluorene	4.89	BRL	BRL	BRL	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	7.65	BRL	BRL	BRL	1 ppm	1/7.8 ppm
2-Methylnaphthalene	0.561	BRL	BRL	BRL	0.98 ppm	474/2,500 ppm
Naphthalene	0.554	BRL	BRL	BRL	5.6 ppm	1,000/2,500 ppm
Phenanthrene	32.1	0.547	BRL	0.299	4 ppm	1,000/2,500 ppm
Pyrene	45.2	1.52	0.284	0.938	4 ppm	1,000/2,500 ppm
Total PAHs	255.25	6.53	0.57	3.83		
Pesticides – Method 8081 (ppm)	NA		NA			
4,4-DDD		0.0219		BRL	No Standard	2.6/24 ppm
4,4-DDE		0.057		BRL	No Standard	1.8/17 ppm
4,4-DDT		0.0586		BRL	No Standard	1.8/17 ppm
Herbicides – Method 8151 (ppm)	NA	BRL	NA	BRL		
Total RCRA 8 Metals – ppm						
Arsenic	4.06	5.23	BRL	BRL		10/10 ppm
Barium	52.1	74.4	147	46.5		4,700/140,000 ppm
Chromium	13.7	15.5	7.27	10.6		100/100 ppm
Lead	68.3	46.8	3.98	11.3		500/1,000 ppm
SPLP RCRA 8 Metals - ppm						
Barium	BRL	0.749	1.19	BRL	1.0 ppm	
Lead	0.0184	BRL	BRL	BRL	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(b) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-5	GP-6	GP-7	GP-8	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	0'-2'	0'-2'	0'-2'	2'-4'		
CT ETPH - (ppm)	78.4	BRL	BRL	BRL	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
PAHs - Method 8270 (ppm)						
Anthracene	0.512	BRL	BRL	BRL	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	1.28	BRL	BRL	0.511	1 ppm	1/7.8 ppm
Benzo(a)pyrene	1.26	BRL	BRL	0.481	1 ppm	1/1 ppm
Benzo(b)fluoranthene	1.36	BRL	BRL	0.543	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.821	BRL	BRL	0.35	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	0.548	BRL	BRL	BRL	4.2 ppm	1,000/2,500 ppm
Chrysene	1.58	BRL	BRL	0.733	1 ppm	84/780 ppm
Fluoranthene	3.8	0.423	0.442	1.41	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.538	BRL	BRL	BRL	1 ppm	1/7.8 ppm
Phenanthrene	1.81	BRL	BRL	0.618	4 ppm	1,000/2,500 ppm
Pyrene	3.65	0.435	0.469	1.37	4 ppm	1,000/2,500 ppm
Total PAHs	17.16	0.86	0.91	6.02		
Pesticides – Method 8081 (ppm)	NA		NA			
4,4-DDE		BRL		0.0178	No Standard	1.8/17 ppm
4,4-DDT		BRL		0.0178	No Standard	1.8/17 ppm
Herbicides – Method 8151 (ppm)	NA	BRL	NA	BRL		
Total RCRA 8 Metals – ppm						
Arsenic	4.23	3.88	4.0	4.26		10/10 ppm
Barium	45.3	34.5	38.6	56.5		4,700/140,000 ppm
Chromium	11.4	13.5	16.4	15.7		100/100 ppm
Lead	16.1	13.6	18.5	51.1		500/1,000 ppm
SPLP RCRA 8 Metals - ppm						
Barium	BRL	0.927	BRL	2.21	1.0 ppm	
Lead	BRL	BRL	BRL	0.0314	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(c) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-9	GP-10	GP-11	GP-12	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	0'-2'	2'-4'	2'-4'	0'-2'		
CT ETPH - (ppm)	83.0	BRL	BRL	BRL	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)						
Naphthalene	0.036	BRL	BRL	BRL	5.6 ppm	1,000/2,500 ppm
PAHs - Method 8270 (ppm)						
Benzo(a)anthracene	0.663	BRL	BRL	BRL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.621	BRL	BRL	BRL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.946	BRL	BRL	BRL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.621	BRL	BRL	BRL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BRL	BRL	BRL	BRL	4.2 ppm	1,000/2,500 ppm
Chrysene	0.978	BRL	BRL	BRL	1 ppm	84/780 ppm
Fluoranthene	1.87	BRL	BRL	BRL	5.6 ppm	1,000/2,500 ppm
Phenanthrene	0.731	BRL	BRL	BRL	4 ppm	1,000/2,500 ppm
Pyrene	1.85	BRL	BRL	BRL	4 ppm	1,000/2,500 ppm
Total PAHs	8.28	BRL	BRL	BRL		
Pesticides – Method 8081 (ppm)	NA	BRL	NA	BRL		
Herbicides – Method 8151 (ppm)	NA	BRL	NA	BRL		
Total RCRA 8 Metals – ppm						
Arsenic	5.55	BRL	4.11	4.59		10/10 ppm
Barium	47.3	51.6	32.3	55.1		4,700/140,000 ppm
Chromium	19.7	12.3	9.71	14.3		100/100 ppm
Lead	41.2	5.93	14.4	24.6		500/1,000 ppm
SPLP RCRA 8 Metals - ppm	BRL	BRL	BRL	BRL		

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(d) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-13	GP-14	GP-15	GP-16	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-4'	2'-4'	2'-4'	2'-4'		
CT ETPH - (ppm)	61.1	325	1,520	1,330	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
PAHs - Method 8270 (ppm)						
Acenaphthene	BRL	BRL	1.04	0.38	8.4 ppm	1,000/2,500 ppm
Acenaphthylene	0.251	1.81	6.41	7.21	8.4 ppm	1,000/2,500 ppm
Anthracene	BRL	1.23	9.68	5.2	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.639	4.62	25.6	20.1	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.519	4.23	23.4	19.4	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.645	5.1	24.0	19.6	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.409	2.85	18.2	15.5	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	0.387	2.02	10.3	9.14	4.2 ppm	1,000/2,500 ppm
Chrysene	0.76	5.0	25.3	20.6	1 ppm	84/780 ppm
Dibenz(a,h)anthracene	BRL	0.376	2.86	2.18	1 ppm	1/1 ppm
Fluoranthene	1.36	10.9	51.8	36.6	5.6 ppm	1,000/2,500 ppm
Fluorene	BRL	0.481	3.84	1.35	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.369	2.1	10.3	9.09	1 ppm	1/7.8 ppm
2-Methylnaphthalene	BRL	BRL	0.366	0.249	0.98 ppm	474/2,500 ppm
Naphthalene	BRL	BRL	0.239	0.295	5.6 ppm	1,000/2,500 ppm
Phenanthrene	0.885	6.77	29.8	16.4	4 ppm	1,000/2,500 ppm
Pyrene	1.5	11.0	53.7	37.7	4 ppm	1,000/2,500 ppm
Total PAHs	7.72	58.49	296.84	220.99		
Pesticides – Method 8081 (ppm)	NA					
4,4-DDD		BRL	0.0246	0.0218	No Standard	2.6/24 ppm
4,4-DDE		BRL	0.0211	BRL	No Standard	1.8/17 ppm
4,4-DDT		BRL	0.0589	0.0152	No Standard	1.8/17 ppm
Herbicides – Method 8151 (ppm)	NA	BRL	BRL	BRL		
Total RCRA 8 Metals – ppm						
Arsenic	4.75	7.76	BRL	3.9		10/10 ppm
Barium	36.7	66.2	44.1	32.7		4,700/140,000 ppm
Chromium	26.1	20.0	18.0	14.0		100/100 ppm
Lead	143	124	95.4	130		500/1,000 ppm
Mercury	BRL	0.564	BRL	BRL		20/610 ppm
SPLP RCRA 8 Metals - ppm						
Chromium	0.0102	0.0102	BRL	0.0066	0.05 ppm	
Lead	0.0126	0.0692	0.0568	0.185	0.015 ppm	
Mercury	BRL	0.00048	BRL	BRL	0.002 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(e) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-17	GP-18	GP-19	GP-20	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	4'-6'	2'-4'	2'-4'	2'-4'		
CT ETPH - (ppm)	95.7	168	265	238	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)						
Acetone	BRL	0.151	BRL	BRL	14 ppm	500/1,000 ppm
PAHs - Method 8270 (ppm)						
Acenaphthylene	0.515	0.835	1.57	1.56	8.4 ppm	1,000/2,500 ppm
Anthracene	0.5	0.461	1.04	1.09	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BRL	1.34	3.33	3.03	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BRL	1.48	3.78	3.52	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BRL	1.72	4.05	3.66	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BRL	0.906	2.77	2.34	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BRL	0.718	1.73	1.7	4.2 ppm	1,000/2,500 ppm
Chrysene	BRL	1.83	3.91	3.5	1 ppm	84/780 ppm
Dibenz(a,h)anthracene	BRL	BRL	0.358	0.265	1 ppm	1/1 ppm
Fluoranthene	BRL	3.17	8.62	7.12	5.6 ppm	1,000/2,500 ppm
Fluorene	BRL	BRL	0.434	0.331	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BRL	0.723	1.73	1.6	1 ppm	1/7.8 ppm
Phenanthrene	BRL	2.28	5.55	4.59	4 ppm	1,000/2,500 ppm
Pyrene	BRL	3.54	8.77	7.79	4 ppm	1,000/2,500 ppm
Total PAHs	1.015	19.00	47.64	42.10		
Pesticides - Method 8081 (ppm)						
4,4-DDD	BRL	0.0366	0.0224	0.0201	No Standard	2.6/24 ppm
4,4-DDE	BRL	0.0495	BRL	BRL	No Standard	1.8/17 ppm
4,4-DDT	BRL	0.173	0.0255	0.0228	No Standard	1.8/17 ppm
Herbicides - Method 8151 (ppm)	BRL	BRL	BRL	BRL		
Total RCRA 8 Metals - ppm						
Arsenic	BRL	7.88	5.04	6.29		10/10 ppm
Barium	68.5	47.2	39.3	45.4		4,700/140,000 ppm
Chromium	24.3	14.3	14.3	12.6		100/100 ppm
Lead	95.2	158	156	72.6		500/1,000 ppm
SPLP RCRA 8 Metals - ppm						
Barium	BRL	BRL	0.969	BRL	1.0 ppm	
Lead	BRL	0.0165	BRL	0.0082	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(f) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-21	GP-22	GP-23	GP-24	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	4'-6'	2'-4'	4'-6'	2'-4'		
CT ETPH - (ppm)	BRL	114	BRL	61.5	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
PAHs - Method 8270 (ppm)						
Acenaphthylene	BRL	0.729	BRL	BRL	8.4 ppm	1,000/2,500 ppm
Anthracene	BRL	0.399	BRL	BRL	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BRL	<i>1.35</i>	BRL	BRL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BRL	<i>1.77</i>	BRL	0.276	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BRL	<i>1.85</i>	BRL	0.279	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BRL	<i>1.1</i>	BRL	BRL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BRL	0.992	BRL	BRL	4.2 ppm	1,000/2,500 ppm
Chrysene	BRL	<i>1.67</i>	BRL	0.26	1 ppm	84/780 ppm
Fluoranthene	BRL	2.15	BRL	0.396	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BRL	0.899	BRL	BRL	1 ppm	1/7.8 ppm
Phenanthrene	BRL	0.865	BRL	BRL	4 ppm	1,000/2,500 ppm
Pyrene	BRL	2.56	BRL	0.447	4 ppm	1,000/2,500 ppm
Total PAHs	BRL	16.33	BRL	1.66		
Pesticides – Method 8081 (ppm)	BRL	NA	NA	NA		
Herbicides – Method 8151 (ppm)	BRL	NA	NA	NA		
Total RCRA 8 Metals – ppm						
Arsenic	BRL	4.56	4.86	6.18		10/10 ppm
Barium	41.8	42.6	62.0	62.9		4,700/140,000 ppm
Chromium	14.4	14.1	13.5	24.2		100/100 ppm
Lead	23.3	36.0	3.3	44.4		500/1,000 ppm
SPLP RCRA 8 Metals - ppm	BRL	BRL	BRL	BRL		

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(g) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-25	GP-26	GP-27	GP-28	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-4'	2'-4'	2'-4'	4'-6'		
CT ETPH - (ppm)	43.7	54.3	BRL	BRL	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
PAHs - Method 8270 (ppm)						
Acenaphthylene	BRL	0.238	BRL	BRL	8.4 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.251	0.312	BRL	BRL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.289	0.343	BRL	BRL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.344	0.447	BRL	BRL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BRL	0.233	BRL	BRL	1 ppm	8.4/78 ppm
Chrysene	0.336	0.433	BRL	BRL	1 ppm	84/780 ppm
Fluoranthene	0.535	0.685	0.398	BRL	5.6 ppm	1,000/2,500 ppm
Phenanthrene	0.36	0.475	0.299	BRL	4 ppm	1,000/2,500 ppm
Pyrene	0.62	0.792	0.423	BRL	4 ppm	1,000/2,500 ppm
Total PAHs	2.74	3.96	1.12	BRL		
Pesticides – Method 8081 (ppm)	NA	NA	NA	BRL		
Herbicides – Method 8151 (ppm)	NA	NA	NA	BRL		
Total RCRA 8 Metals – ppm						
Arsenic	3.72	5.91	BRL	5.08		10/10 ppm
Barium	38.8	44.0	35.9	35.1		4,700/140,000 ppm
Chromium	14.3	14.7	9.1	7.18		100/100 ppm
Lead	6.94	51.8	13.5	4.43		500/1,000 ppm
SPLP RCRA 8 Metals - ppm	BRL	BRL	BRL	BRL		

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(h) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-29	GP-30	GP-31	GP-32	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-4'	0'-2'	2'-4'	0'-2'		
CT ETPH - (ppm)	BRL	BRL	BRL	85.8	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
PAHs - Method 8270 (ppm)						
Benzo(a)anthracene	0.493	BRL	BRL	0.395	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.344	BRL	BRL	0.381	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.445	BRL	BRL	0.387	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BRL	BRL	BRL	0.238	1 ppm	8.4/78 ppm
Chrysene	0.577	0.355	BRL	0.442	1 ppm	84/780 ppm
Fluoranthene	1.09	0.808	BRL	0.804	5.6 ppm	1,000/2,500 ppm
Phenanthrene	0.658	BRL	BRL	0.437	4 ppm	1,000/2,500 ppm
Pyrene	1.12	0.746	BRL	0.803	4 ppm	1,000/2,500 ppm
Total PAHs	4.73	1.91	BRL	3.89		
Pesticides – Method 8081 (ppm)	NA	NA	NA	NA		
Herbicides – Method 8151 (ppm)	NA	NA	NA	NA		
Total RCRA 8 Metals – ppm						
Arsenic	8.62	10.2	6.11	4.81		10/10 ppm
Barium	52.2	71.8	63.1	43.5		4,700/140,000 ppm
Chromium	17.6	18.5	18.7	9.63		100/100 ppm
Lead	132	63.1	15.7	9.49		500/1,000 ppm
Mercury	0.228	BRL	BRL	BRL		20/610 ppm
SPLP RCRA 8 Metals – ppm						
Barium	BRL	0.173	BRL	BRL	1.0 ppm	
Lead	0.0238	BRL	BRL	BRL	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(i) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-33	GP-34	GP-35	GP-36	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-4'	2'-4'	0'-3'	4'-8'		
CT ETPH - (ppm)	175	138	261	66.4	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
PAHs - Method 8270 (ppm)						
Acenaphthylene	BRL	0.467	0.262	BRL	8.4 ppm	1,000/2,500 ppm
Anthracene	BRL	BRL	0.264	BRL	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.554	0.745	0.854	BRL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.663	0.977	0.881	BRL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.741	1.08	0.848	BRL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.44	0.66	0.556	BRL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	0.342	0.534	0.443	BRL	4.2 ppm	1,000/2,500 ppm
Chrysene	0.733	1.09	0.863	BRL	1 ppm	84/780 ppm
Fluoranthene	1.09	1.67	1.5	BRL	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.319	0.518	0.414	BRL	1 ppm	1/7.8 ppm
Phenanthrene	0.661	1.16	BRL	BRL	4 ppm	1,000/2,500 ppm
Pyrene	1.21	1.85	0.835	BRL	4 ppm	1,000/2,500 ppm
Total PAHs	6.75	10.75	7.72	BRL		
Pesticides – Method 8081 (ppm)	NA	NA	NA	NA		
Herbicides – Method 8151 (ppm)	NA	NA	NA	NA		
Total RCRA 8 Metals – ppm						
Arsenic	BRL	BRL	2.95	3.78		10/10 ppm
Barium	52.6	44.3	25.2	34.7		4,700/140,000 ppm
Chromium	16.8	10.0	5.57	5.37		100/100 ppm
Lead	33.3	42.3	11.3	4.85		500/1,000 ppm
SPLP RCRA 8 Metals - ppm	BRL	BRL	BRL	BRL		

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(j) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-37	GP-38	GP-39	GP-40	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	4'-6'	0'-3'	2'-4'	2'-4'		
CT ETPH - (ppm)	BRL	109	179	BRL	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
PAHs - Method 8270 (ppm)						
Acenaphthylene	BRL	0.232	0.479	BRL	8.4 ppm	1,000/2,500 ppm
Anthracene	BRL	BRL	0.337	BRL	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BRL	0.542	1.22	0.391	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BRL	0.674	1.4	0.403	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BRL	0.676	1.54	0.468	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BRL	0.444	0.938	0.286	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BRL	0.296	0.918	0.334	4.2 ppm	1,000/2,500 ppm
Chrysene	BRL	0.696	1.47	0.467	1 ppm	84/780 ppm
Fluoranthene	BRL	1.18	2.53	0.829	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BRL	0.297	0.807	0.3	1 ppm	1/7.8 ppm
Phenanthrene	BRL	0.596	1.44	0.524	4 ppm	1,000/2,500 ppm
Pyrene	BRL	1.24	2.59	0.824	4 ppm	1,000/2,500 ppm
Total PAHs	BRL	6.87	15.67	4.83		
Pesticides – Method 8081 (ppm)	NA	NA	NA	NA		
Herbicides – Method 8151 (ppm)	NA	NA	NA	NA		
Total RCRA 8 Metals – ppm						
Arsenic	BRL	BRL	BRL	4.55		10/10 ppm
Barium	21.9	34.9	25.1	74.1		4,700/140,000 ppm
Chromium	3.94	9.27	8.87	20.7		100/100 ppm
Lead	BRL	15.2	14.6	1.76		500/1,000 ppm
SPLP RCRA 8 Metals - ppm	BRL	BRL	BRL	BRL		

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(k) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-41	GP-42	GP-43	GP-44	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-4'	2'-4'	0'-3'	2'-4'		
CT ETPH - (ppm)	BRL	138	68.2	104	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)						
Acetone	BRL	0.14	0.157	0.202	14 ppm	500/1,000 ppm
PAHs - Method 8270 (ppm)						
Acenaphthene	BRL	0.565	BRL	BRL	8.4 ppm	1,000/2,500 ppm
Acenaphthylene	BRL	0.417	0.283	0.683	8.4 ppm	1,000/2,500 ppm
Anthracene	BRL	1.05	BRL	0.353	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.484	2.03	0.595	0.972	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.466	1.86	0.668	1.3	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.524	2.21	0.705	1.32	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.336	1.24	0.417	0.842	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	0.244	0.783	0.464	0.733	4.2 ppm	1,000/2,500 ppm
Chrysene	0.579	2.15	0.732	1.28	1 ppm	84/780 ppm
Fluoranthene	1.05	4.62	1.22	1.95	5.6 ppm	1,000/2,500 ppm
Fluorene	BRL	0.483	BRL	BRL	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.242	0.773	0.434	0.712	1 ppm	1/7.8 ppm
Phenanthrene	0.766	3.94	0.553	0.885	4 ppm	1,000/2,500 ppm
Pyrene	1.07	4.75	1.29	2.41	4 ppm	1,000/2,500 ppm
Total PAHs	5.76	26.87	7.36	13.44		
Pesticides – Method 8081 (ppm)	NA	BRL	BRL	BRL		
Herbicides – Method 8151 (ppm)	NA	BRL	BRL	BRL		
Total RCRA 8 Metals – ppm						
Arsenic	3.83	BRL	BRL	BRL		10/10 ppm
Barium	82.2	49.4	46.9	43.5		4,700/140,000 ppm
Chromium	18.1	9.39	9.64	13.9		100/100 ppm
Lead	3.21	49.9	95.8	85.5		500/1,000 ppm
Mercury	BRL	0.203	0.229	BRL		20/610 ppm
SPLP RCRA 8 Metals - ppm						
Barium	BRL	BRL	0.117	BRL	1.0 ppm	
Chromium	BRL	BRL	BRL	0.007	0.05 ppm	
Lead	BRL	BRL	0.0194	0.0198	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(I) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-45	GP-46	GP-47	GP-48	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	4'-6'	4'-7'	2'-4'	2'-4'		
CT ETPH - (ppm)	BRL	BRL	70.1	82.9	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)						
Acetone	BRL	BRL	BRL	0.315	14 ppm	500/1,000 ppm
PAHs - Method 8270 (ppm)						
Acenaphthylene	BRL	BRL	BRL	0.328	8.4 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BRL	BRL	0.387	0.708	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BRL	BRL	0.411	0.809	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BRL	BRL	0.474	0.863	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BRL	BRL	0.291	0.61	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BRL	BRL	BRL	0.467	4.2 ppm	1,000/2,500 ppm
Chrysene	BRL	BRL	0.429	0.98	1 ppm	84/780 ppm
Fluoranthene	BRL	BRL	0.751	1.47	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BRL	BRL	BRL	0.453	1 ppm	1/7.8 ppm
Phenanthrene	BRL	BRL	BRL	0.848	4 ppm	1,000/2,500 ppm
Pyrene	BRL	BRL	0.859	1.65	4 ppm	1,000/2,500 ppm
Total PAHs	BRL	BRL	3.6	9.19		
Pesticides -- Method 8081 (ppm)		NA	NA			
4,4-DDD	BRL			0.0203	No Standard	2.6/24 ppm
4,4-DDE	BRL			0.0378	No Standard	1.8/17 ppm
4,4-DDT	BRL			0.0721	No Standard	1.8/17 ppm
Herbicides -- Method 8151 (ppm)	BRL	NA	NA	BRL		
Total RCRA 8 Metals -- ppm						
Arsenic	BRL	BRL	BRL	5.93		10/10 ppm
Barium	47.9	53.8	46.1	85.5		4,700/140,000 ppm
Cadmium	BRL	BRL	BRL	0.562		34/1,000 ppm
Chromium	10.0	16.7	14.7	15.1		100/100 ppm
Lead	7.06	9.97	5.02	298		500/1,000 ppm
SPLP RCRA 8 Metals - ppm						
Chromium	BRL	0.0072	0.0108	BRL	0.05 ppm	
Lead	BRL	BRL	BRL	0.0265	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(m) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-49	GP-50	GP-51	GP-52	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-4'	2'-4'	0'-2'	2'-4'		
CT ETPH - (ppm)	72.6	54.1	43.7	59.7	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)						
Acetone	BRL	0.192	0.134	0.147	14 ppm	500/1,000 ppm
PAHs - Method 8270 (ppm)						
Benzo(a)anthracene	0.501	BRL	BRL	BRL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.641	BRL	BRL	BRL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.852	BRL	BRL	BRL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.445	BRL	BRL	BRL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	0.46	BRL	BRL	BRL	4.2 ppm	1,000/2,500 ppm
Chrysene	0.723	BRL	0.361	BRL	1 ppm	84/780 ppm
Fluoranthene	1.05	0.413	0.677	0.398	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.409	BRL	BRL	BRL	1 ppm	1/7.8 ppm
Phenanthrene	0.525	BRL	0.395	BRL	4 ppm	1,000/2,500 ppm
Pyrene	1.11	0.404	0.637	0.43	4 ppm	1,000/2,500 ppm
Total PAHs	6.72	0.817	2.07	0.828		
Pesticides – Method 8081 (ppm)	NA	NA	NA	NA		
Herbicides – Method 8151 (ppm)	NA	NA	NA	NA		
Total RCRA 8 Metals – ppm						
Arsenic	BRL	BRL	BRL	6.24		10/10 ppm
Barium	53.5	38.1	37.6	122		4,700/140,000 ppm
Chromium	19.6	16.4	15.0	16.5		100/100 ppm
Lead	36.4	49.2	26.7	146		500/1,000 ppm
Mercury	BRL	BRL	BRL	0.214		20/610 ppm
SPLP RCRA 8 Metals – ppm						
Lead	BRL	BRL	BRL	0.0202	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA -- Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(n) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-53	GP-54	GP-55	GP-56	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-4'	2'-4'	4'-6'	4'-6'		
CT ETPH - (ppm)	50.4	80.7	105	106	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)						
Acetone	0.103	0.228	BRL	BRL	14 ppm	500/1,000 ppm
Naphthalene	BRL	BRL	BRL	0.0358	5.6 ppm	1,000/2,500 ppm
PAHs - Method 8270 (ppm)						
Acenaphthene	BRL	BRL	BRL	1.28	8.4 ppm	1,000/2,500 ppm
Acenaphthylene	0.711	BRL	BRL	4.68	8.4 ppm	1,000/2,500 ppm
Anthracene	0.352	BRL	BRL	6.25	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	1.33	0.378	BRL	9.51	1 ppm	1/7.8 ppm
Benzo(a)pyrene	1.28	0.324	BRL	8.03	1 ppm	1/1 ppm
Benzo(b)fluoranthene	1.45	0.375	BRL	8.32	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.993	BRL	BRL	5.15	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	0.682	BRL	BRL	3.16	4.2 ppm	1,000/2,500 ppm
Chrysene	1.81	0.486	BRL	10.3	1 ppm	84/780 ppm
Dibenz(a,h)anthracene	BRL	BRL	BRL	0.74	1 ppm	1/1 ppm
Fluoranthene	2.81	0.708	BRL	23.9	5.6 ppm	1,000/2,500 ppm
Fluorene	BRL	BRL	BRL	6.18	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.66	BRL	BRL	3.11	1 ppm	1/7.8 ppm
2-Methylnaphthalene	BRL	BRL	BRL	5.26	0.98 ppm	474/2,500 ppm
Naphthalene	BRL	BRL	BRL	2.07	5.6 ppm	1,000/2,500 ppm
Phenanthrene	1.46	0.378	BRL	28.1	4 ppm	1,000/2,500 ppm
Pyrene	3.03	0.742	BRL	25.1	4 ppm	1,000/2,500 ppm
Total PAHs	16.57	3.39	BRL	151.14		
Pesticides – Method 8081 (ppm)	BRL	NA	BRL	NA		
Herbicides – Method 8151 (ppm)	BRL	NA	BRL	NA		
Total RCRA 8 Metals – ppm						
Arsenic	11.9	BRL	BRL	BRL		10/10 ppm
Barium	79.9	58.6	60.0	40.3		4,700/140,000 ppm
Chromium	18.6	12.5	18.8	14.5		100/100 ppm
Lead	46.0	90.9	3.03	37.2		500/1,000 ppm
Mercury	BRL	0.346	BRL	BRL		20/610 ppm
SPLP RCRA 8 Metals - ppm						
Lead	0.01	0.0091	BRL	0.0102	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(o) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-57	GP-58	GP-59	GP-60	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-4'	2'-4'	2'-4'	4'-6'		
CT ETPH - (ppm)	515	73.2	41.4	BRL	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)						
Naphthalene	0.00718	BRL	BRL	BRL	5.6 ppm	1,000/2,500 ppm
PAHs - Method 8270 (ppm)						
Acenaphthylene	1.04	BRL	BRL	BRL	8.4 ppm	1,000/2,500 ppm
Anthracene	0.917	BRL	BRL	BRL	40 ppm	1,000/2,500 ppm
Benzo(a)anthracene	4.01	BRL	BRL	BRL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	3.89	BRL	BRL	BRL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	3.6	BRL	BRL	BRL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	2.59	BRL	BRL	BRL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	3.26	BRL	BRL	BRL	4.2 ppm	1,000/2,500 ppm
Chrysene	4.75	BRL	BRL	BRL	1 ppm	84/780 ppm
Dibenz(a,h)anthracene	0.745	BRL	BRL	BRL	1 ppm	1/1 ppm
Fluoranthene	7.45	BRL	BRL	BRL	5.6 ppm	1,000/2,500 ppm
Fluorene	0.55	BRL	BRL	BRL	5.6 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	3.0	BRL	BRL	BRL	1 ppm	1/7.8 ppm
Phenanthrene	5.97	BRL	BRL	BRL	4 ppm	1,000/2,500 ppm
Pyrene	8.05	BRL	BRL	BRL	4 ppm	1,000/2,500 ppm
Total PAHs	49.82	BRL	BRL	BRL		
Pesticides – Method 8081 (ppm)	NA	BRL	BRL	NA		
Herbicides – Method 8151 (ppm)	NA	BRL	BRL	NA		
Total RCRA 8 Metals – ppm						
Arsenic	8.93	6.57	8.52	BRL		10/10 ppm
Barium	56.6	43.5	37.9	33.8		4,700/140,000 ppm
Chromium	18.4	22.6	25.9	6.82		100/100 ppm
Lead	118	29.4	29.4	BRL		500/1,000 ppm
SPLP RCRA 8 Metals - ppm						
Lead	0.0242	BRL	BRL	BRL	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 1(p) - Results of Geoprobe Boring Soil Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Boring I.D.:	GP-61	GP-62	GP-63	GP-64	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-4'	4'-8'	2'-4'	0'-3'		
CT ETPH - (ppm)	BRL	BRL	BRL	38.7	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
PAHs - Method 8270 (ppm)						
Fluoranthene	BRL	BRL	BRL	0.363	5.6 ppm	1,000/2,500 ppm
Pyrene	BRL	BRL	BRL	0.4	4 ppm	1,000/2,500 ppm
Total PAHs	BRL	BRL	BRL	0.763		
Pesticides – Method 8081 (ppm)	NA	NA	NA	NA		
Herbicides – Method 8151 (ppm)	NA	NA	NA	NA		
Total RCRA 8 Metals – ppm						
Arsenic	BRL	23.0	9.22	8.25		10/10 ppm
Barium	38.1	90.4	43.0	53.0		4,700/140,000 ppm
Chromium	12.8	17.5	21.0	21.7		100/100 ppm
Lead	16.1	10.6	8.63	36.0		500/1,000 ppm
SPLP RCRA 8 Metals – ppm						
Chromium	0.005	0.0213	BRL	BRL	0.05 ppm	
Lead	0.0289	BRL	BRL	BRL	0.015 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 2 - Results of Sediment Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Sample I.D.:	SED-1	CTDEP PMC GA Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
CT ETPH - (ppm)	BRL	500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)			
Acetone	0.36 ppm	14 ppm	500/1,000 ppm
PAHs - Method 8270 (ppm)			
Fluoranthene	0.532	5.6 ppm	1,000/2,500 ppm
Pyrene	0.605	4 ppm	1,000/2,500 ppm
Total PAHs	1.137		
Pesticides – Method 8081 (ppm)	BRL		
Herbicides – Method 8151 (ppm)	BRL		
Total RCRA 8 Metals – ppm			
Barium	55.7		4,700/140,000 ppm
Chromium	16.2		100/100 ppm
Lead	17.2		500/1,000 ppm
SPLP RCRA 8 Metals - ppm	BRL		

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 3(a) - Results of Groundwater Grab Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Sample I.D.:	GP-19	GP-40	GPC	SWPC	VC: Res./Com. & Ind.
VOC – Method 8260 (ppb)	BRL	BRL			
CT ETPH (ppm)	BRL	BRL	0.1 ppm	No Standard	Not Applicable
PAHs – Method 8270 (ppb)	BRL	BRL			
Pesticides – Method 8081 (ppb)	BRL	BRL			
Herbicides – Method 8151 (ppb)	BRL	BRL			
Total RCRA 8 Metals (ppm)					Not Applicable
Barium	0.0595	0.0311	1.0 ppm	No Standard	
Chromium	0.0026	0.003	0.05 ppm	0.11 ppm	
Lead	0.0064	BRL	0.015 ppm	0.013 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

GPC – CTDEP Groundwater Protection Criteria

SWPC – CTDEP Surface Water Protection Criteria

VC – CTDEP Volatilization Criteria: Residential/Commercial & Industrial

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 3(b) - Results of Groundwater Grab Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Sample I.D.:	GP-55	GP-56	GPC	SWPC	VC: Res./Com. & Ind.
VOC – Method 8260 (ppb)					
Naphthalene	BRL	12.4	280 ppb	No Standard	No Standard
CT ETPH (ppm)	0.3	BRL	0.1 ppm	No Standard	Not Applicable
PAHs – Method 8270 (ppb)					
Naphthalene	BRL	5.68	280 ppb	No Standard	No Standard
Pesticides – Method 8081 (ppb)	BRL	NA			
Herbicides – Method 8151 (ppb)	BRL	NA			
Total RCRA 8 Metals (ppm)					Not Applicable
Barium	0.563	0.131	1.0 ppm	No Standard	
Chromium	0.116	0.0173	0.05 ppm	0.11 ppm	
Lead	0.702	0.0768	0.015 ppm	0.013 ppm	
Mercury	0.00267	BRL	0.002 ppm	0.0004 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

GPC – CTDEP Groundwater Protection Criteria

SWPC – CTDEP Surface Water Protection Criteria

VC – CTDEP Volatilization Criteria: Residential/Commercial & Industrial

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 3(c) - Results of Groundwater Grab Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Sample I.D.:	GP-62	GPC	SWPC	VC: Res./Com. & Ind.
VOC – Method 8260 (ppb)	BRL			
CT ETPH (ppm)	BRL	0.1 ppm	No Standard	Not Applicable
PAHs – Method 8270 (ppb)	BRL			
Pesticides – Method 8081 (ppb)	BRL			
Herbicides – Method 8151 (ppb)	BRL			
Total RCRA 8 Metals (ppm)				
Arsenic	<i>0.144</i>	0.05 ppm	0.004 ppm	Not Applicable
Barium	<i>2.2</i>	1.0 ppm	No Standard	
Cadmium	<i>0.014</i>	0.005 ppm	0.006 ppm	
Chromium	0.0252	0.05 ppm	0.11 ppm	
Lead	<i>0.425</i>	0.015 ppm	0.013 ppm	
Mercury	<i>0.00363</i>	0.002 ppm	0.0004 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

GPC – CTDEP Groundwater Protection Criteria

SWPC – CTDEP Surface Water Protection Criteria

VC – CTDEP Volatilization Criteria: Residential/Commercial & Industrial

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

**TABLE 4 - Results of Surface Water Sample Analyses
Route 25 Intersection Improvements
Monroe & Trumbull, Connecticut**

Well I.D.:	SW-1	GPC	SWPC	VC: Res./Com. & Ind.
VOCs – Method 8260 (ppb)	BRL			
CT ETPH (ppm)	BRL	0.1 ppm	No Standard	Not Applicable
PAHs – Method 8270 (ppb)	BRL			
Pesticides – Method 8081 (ppb)	BRL			
Herbicides – Method 8151 (ppb)	BRL			
Total RCRA 8 Metals (ppm)				Not Applicable
Barium	0.0117	1.0 ppm	No Standard	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

GPC – CTDEP Groundwater Protection Criteria

SWPC – CTDEP Surface Water Protection Criteria

VC – CTDEP Volatilization Criteria: Residential/Commercial & Industrial

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

APPENDIX A

Boring Logs

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-1
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown fine SAND & SILT, little fine to coarse Gravel & Cobble	Macro Core Sample 0' - 2': PID = 0.4 ppm
0.6 2'	Refusal at 2' on Gray Granitic GNEISS	
0.9 3'		
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-2
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown fine SAND & SILT, little fine to coarse Gravel & Cobble	Macro Core Sample 0' - 2': PID = 0.1 ppm
0.6 2'	Refusal at 2' on Gray Granitic GNEISS	
0.9 3'		
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-3
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown fine SAND & SILT, little fine to coarse Gravel & Cobble	Macro Core Sample 0' - 2': PID = 0.3 ppm
0.6 2'	Refusal at 2' on Gray Granitic GNEISS	
0.9 3'		
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-4
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m	ft	Description	Comments
0.3	1'	Dark-Brown fine SAND & SILT, little fine to coarse Gravel & Cobble	Macro Core Sample 0' - 2': PID = 0.2 ppm
0.6	2'	-----	
0.9	3'	Weathered & Crushed Gray Granitic GNEISS	Macro Core Sample 2' - 3.5': PID = 0 ppm
1.2	4'	Refusal at 3.5' on Gray Granitic GNEISS	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-5
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown fine SAND & SILT, little fine to coarse Gravel & Cobble	Macro Core Sample 0' - 2': PID = 0.5 ppm
0.6 2'	Refusal at 2' on Gray Granitic GNEISS	
0.9 3'		
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-6
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown fine SAND & SILT, little fine to coarse Gravel & Cobble	Macro Core Sample 0' - 2': PID = 0.1 ppm
0.6 2'	Weathered & Crushed Gray Granitic GNEISS	Macro Core Sample 2' - 3': PID = 0 ppm
0.9 3'	Refusal at 3' on Gray Granitic GNEISS	
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-7
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, little fine Sand, trace fine to coarse Gravel	Macro Core Sample 0' - 2': PID = 0.2 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt & Cobble	Macro Core Sample 2' - 4': PID = 0 ppm
0.9 3'	Weathered & Crushed Gray Granitic GNEISS	
1.2 4'	Refusal at 4' on Gray Granitic GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-8
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, little fine Sand, trace fine to medium Gravel	Macro Core Sample 0' - 2': PID = 0.8 ppm
0.6 2'	Brown fine SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 2' - 4': PID = 1.4 ppm
0.9 3'		
1.2 4'	Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble	Macro Core Sample 4' - 6': PID = 0.9 ppm
1.5 5'	Groundwater at 5'	
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-9
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, little fine Sand, trace fine to medium Gravel	Macro Core Sample 0' - 2': PID = 0.2 ppm
0.6 2'	Brown SILT	Macro Core Sample 2' - 4': PID = 0.1 ppm
0.9 3'	Crushed Gray GNEISS	Macro Core Sample 4' - 6': PID = 0 ppm
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-10
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Brown SILT, trace fine Sand & Gravel - 4"	Macro Core Sample 0' - 2': PID = 1.6 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble & Silt	Macro Core Sample 2' - 4': PID = 2.3 ppm
0.9 3'		
1.2 4'		
1.5 5'		
1.8 6'	Refusal at 4' on Gray Granitic GNEISS	
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-11
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
	Dark-Brown SILT, little fine Sand, trace fine to medium Gravel	Macro Core Sample 0' - 2': PID = 0.9 ppm
0.3 1'	Brown SILT, little fine Sand, trace fine Gravel	
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel	Macro Core Sample 2' - 4': PID = 1.6 ppm
0.9 3'	Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 4' - 5': PID = 0 ppm
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'	Refusal at 5' on Gray Granitic GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-12
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 2.5 ppm
0.6 2'	Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 2' - 4': PID = 0.9 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel	
1.2 4'	Crushed Gray Granitic GNEISS	Macro Core Sample 4' - 5': PID = 0 ppm
1.5 5'		
1.8 6'		
2.1 7'	Refusal at 5' on Gray Granitic GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-13
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 0.9 ppm
0.6 2'	Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 1.9 ppm
0.9 3'		
1.2 4'		Macro Core Sample 4' - 5':
1.5 5'	Crushed Gray Granitic GNEISS	PID = 0 ppm
1.8 6'		
2.1 7'	Refusal at 5' on Gray Granitic GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-14
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.7 ppm
0.6 2'	Brown fine SAND & SILT, little fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 2.8 ppm
0.9 3'		
1.2 4'		Macro Core Sample 4' - 6': PID = 0.4 ppm
1.5 5'	Brown SILT, trace Clay & fine Sand	
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-15
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2':
0.3 1'	Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel & Cobble	PID = 1.9 ppm
0.6 2'		Macro Core Sample 2' - 4':
0.9 3'	Dark-Brown SILT, trace Clay	PID = 2.7 ppm
1.2 4'		Macro Core Sample 4' - 5':
1.5 5'		PID = 0.9 ppm
1.8 6'		
2.1 7'	Refusal at 5' on Gray Granitic GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-16
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.8 ppm
0.6 2'	Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 2' - 4': PID = 3.1 ppm
0.9 3'		
1.2 4'	Dark-Brown to Dark-Gray SILT, trace fine to coarse Sand, Gravel & Cobble	Macro Core Sample 4' - 6': PID = 1.7 ppm
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-17
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.7 ppm
0.6 2'	Dark-Brown fine SAND & SILT, trace fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 2.3 ppm
0.9 3'		Macro Core Sample 4' - 6': PID = 2.8 ppm
1.2 4'		
1.5 5'	Gray SILT, little fine to coarse Sand, trace fine to coarse Gravel & Cobble	
1.8 6'	Refusal at 6' on Gray Granitic GNEISS	
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-18
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel - 4"	Macro Core Sample 0' - 2': PID = 0.1 ppm
0.6 2'	Brown fine SAND, little Silt, trace Wood & fine to coarse Gravel	Macro Core Sample 2' - 4': PID = 0.3 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble	Macro Core Sample 4' - 5': PID = 0 ppm
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'	Refusal at 5' on Gray Granitic GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-19
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2':
0.3 1'		PID = 1.9 ppm
	Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel	
0.6 2'		Macro Core Sample 2' - 4':
0.9 3'		PID = 2.6 ppm
	Dark-Brown to Dark-Gray SILT, trace fine to coarse Sand, Gravel & Cobble	
1.2 4'		Macro Core Sample 4' - 6':
1.5 5'		PID = 1.8 ppm
	Groundwater at 5.5'	
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-20
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.1 ppm
0.6 2'	Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 2' - 4': PID = 1.6 ppm
0.9 3'	Dark-Brown to Dark-Gray SILT, trace fine to coarse Sand, Gravel & Cobble	Macro Core Sample 4' - 5': PID = 1.2 ppm
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-21
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.4 ppm
0.6 2'		Macro Core Sample 2' - 4': PID = 2.0 ppm
0.9 3'		
1.2 4'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 6': PID = 5.5 ppm
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-22
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 0.3 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 0.4 ppm
0.9 3'		
1.2 4'		Macro Core Sample 4' - 4.5': PID = 0.1 ppm
1.5 5'		
1.8 6'	Refusal at 4.5' on Gray Granitic GNEISS	
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-23
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m	ft	Description	Comments
		Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 0.4 ppm
0.3	1'	Brown SILT, little fine to coarse Gravel & Cobble	
0.6	2'		Macro Core Sample 2' - 4': PID = 0.9 ppm
0.9	3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2	4'		Macro Core Sample 4' - 6': PID = 1.5 ppm
1.5	5'	Brown SILT, trace fine Sand & fine to coarse Gravel	
1.8	6'	Brown fine to coarse SAND, trace Silt	Macro Core Sample 6' - 8': PID = 1.1 ppm
2.1	7'		
2.4	8'	Tan fine SAND	
2.74	9'		
3	10'	Brown fine to coarse SAND, little Cobble	Macro Core Sample 8' - 10.5': PID = 0.2 ppm
3.4	11'		
3.7	12'	Refusal at 10.5' on Gray Granitic GNEISS	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-24
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.8 ppm
0.6 2'	Brown SILT, trace fine to coarse Gravel & fine Sand	Macro Core Sample 2' - 4': PID = 2.4 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 6': PID = 2.0 ppm
1.2 4'	Tan fine SAND, trace Silt	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-25
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.1 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 1.6 ppm
0.9 3'		
1.2 4'	Tan SILT, trace fine Sand & Clay	Macro Core Sample 4' - 6': PID = 1.1 ppm
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-26
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 0.2 ppm
0.6 2'	Brown SILT, little fine to medium Sand, trace fine to coarse Gravel	Macro Core Sample 2' - 4': PID = 0.6 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 4.5': PID = 0 ppm
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'	Refusal at 4.5' on Gray Granitic GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-27
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 0.3 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 0.9 ppm
0.9 3'		
1.2 4'	Refusal at 4' on Gray Granitic GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-28
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 0.5 ppm
0.6 2'		Macro Core Sample 2' - 4':
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	PID = 1.1 ppm
1.2 4'	Tan fine SAND	Macro Core Sample 4' - 6':
1.5 5'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	PID = 1.8 ppm
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-29
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 0.7 ppm
0.6 2'		Macro Core Sample 2' - 4':
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	PID = 1.6 ppm
1.2 4'	Tan fine SAND	Macro Core Sample 4' - 6':
1.5 5'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	PID = 0.9 ppm
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray Granitic GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-30
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2':
0.3 1'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt & Cobble	PID = 1.4 ppm
0.6 2'	Refusal at 2' on Gray GNEISS	
0.9 3'		
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/25/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-31
Date Finished: 9/25/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.1 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt & Cobble	Macro Core Sample 2' - 4': PID = 1.8 ppm
0.9 3'		
1.2 4'		
1.5 5'		
1.8 6'	Refusal at 4' on Gray GNEISS	
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-32
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown to Dark-Gray SILT, little fine Sand, trace fine to coarse Gravel	Macro Core Sample 0' - 2': PID = 1.2 ppm
0.6 2'	Brown SILT, trace fine to medium Sand, fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 0.2 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2 4'	Refusal at 4' on Gray Granitic GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-33
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown to Dark-Gray SILT, little fine Sand, trace fine to coarse Gravel	Macro Core Sample 0' - 2': PID = 2.2 ppm
0.6 2'	Brown SILT, trace fine to medium Sand, fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 2.9 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 4.5': PID = 0 ppm
1.2 4'	Refusal at 4.5' on Gray Granitic GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-34
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown to Dark-Gray SILT, little fine Sand, trace fine to coarse Gravel	Macro Core Sample 0' - 2': PID = 0.4 ppm
0.6 2'	Brown SILT, trace fine to medium Sand, fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 0.6 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2 4'	Refusal at 4' on Gray Granitic GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-35
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
	Dark-Brown to Dark-Gray SILT, little fine Sand, trace fine to coarse Gravel	Macro Core Sample 0' - 3':
0.3 1'	Brown SILT, trace fine to medium Sand, fine to coarse Gravel & Cobble	PID = 1.3 ppm
0.6 2'		
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2 4'		
1.5 5'	Refusal at 3' on Gray Granitic GNEISS	
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-36
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, little fine Sand, trace fine Gravel - 4"	Macro Core Sample 0' - 2': PID = 0.6 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 1.9 ppm
0.9 3'		
1.2 4'		Macro Core Sample 4' - 8': PID = 2.3 ppm
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Tan fine SAND	
2.74 9'		
3 10'		Macro Core Sample 8' - 12': PID = 0.4 ppm
3.4 11'		
3.7 12'	End of Boring at 3.7m (12')	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-37
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, little fine Sand, trace fine Gravel - 3"	Macro Core Sample 0' - 2': PID = 0.9 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 1.1 ppm
0.9 3'		
1.2 4'		Macro Core Sample 4' - 6': PID = 1.6 ppm
1.5 5'	Tan fine SAND	
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'	Refusal at 6' on Gray Granitic GNEISS	
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-38
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, little fine Sand, trace fine to coarse Gravel - 4"	Macro Core Sample 0' - 3': PID = 1.0 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
0.9 3'	Refusal at 3' on Gray Granitic GNEISS	
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-39
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0' - 2': PID = 0.7 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 1.9 ppm
0.9 3'		
1.2 4'		Macro Core Sample 4' - 6': PID = 0.4 ppm
1.5 5'	Brown SILT, trace fine to coarse Gravel & Cobble	
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'	Refusal at 6' on Gray Granitic GNEISS	
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-40
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	ASPHALT - 2"	Macro Core Sample 0' - 2': PID = 1.6 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 3.8 ppm
0.9 3'		
1.2 4'	Orange-Brown SILT, trace fine Sand	Macro Core Sample 4' - 8': PID = 1.2 ppm
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
2.74 9'	Groundwater at 9'	
3 10'		Macro Core Sample 8' - 12': PID = 0.2 ppm
3.4 11'		
3.7 12'		
	End of Boring at 3.7m (12')	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-41
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	ASPHALT - 3"	Macro Core Sample 0' - 2': PID = 1.5 ppm
0.6 2'		Macro Core Sample 2' - 4': PID = 2.9 ppm
0.9 3'	Brown to Gray-Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2 4'		Macro Core Sample 4' - 6': PID = 0.3 ppm
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'	Refusal at 6' on Gray Granitic GNEISS	
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-42
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown fine SAND & SILT, trace fine to coarse Gravel - 4"	Macro Core Sample 0' - 2': PID = 0.8 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 1.4 ppm
0.9 3'		
1.2 4'		Macro Core Sample 4' - 6': PID = 0 ppm
1.5 5'	Weathered Crushed Gray SCHIST/GNEISS	
1.8 6'		
2.1 7'	Refusal at 6' on Gray SCHIST/GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-43
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m	ft	Description	Comments
0.3	1'	Dark-Brown fine SAND & SILT, trace fine to coarse Gravel - 4"	Macro Core Sample 0' - 3': PID = 1.8 ppm
0.6	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
0.9	3'	Refusal at 3' on Gray SCHIST/GNEISS	
1.2	4'		
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-44
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown fine SAND & SILT, trace fine to coarse Gravel - 3"	Macro Core Sample 0' - 2': PID = 0.7 ppm
0.6 2'	Brown SILT, little fine to coarse Sand, trace fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 1.4 ppm
0.9 3'		
1.2 4'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 6': PID = 0.4 ppm
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray SCHIST/GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-45
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown fine SAND & SILT, trace fine to coarse Gravel - 3"	Macro Core Sample 0' - 2': PID = 1.1 ppm
0.6 2'	Brown SILT, little fine to coarse Sand, trace fine to coarse Gravel & Cobble	
0.9 3'		Macro Core Sample 2' - 4': PID = 1.2 ppm
1.2 4'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 6': PID = 1.4 ppm
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'	Refusal at 6' on Gray SCHIST/GNEISS	
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-46
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	MULCH - 3"	Macro Core Sample 0' - 2': PID = 0.6 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt	Macro Core Sample 2' - 4': PID = 1.3 ppm
0.9 3'		Macro Core Sample 4' - 7': PID = 1.9 ppm
1.2 4'		
1.5 5'		
1.8 6'	Gray SILT, trace fine to coarse Gravel, fine Sand & Clay	
2.1 7'		
2.4 8'		
2.74 9'	Refusal at 7' on Gray SCHIST/GNEISS	
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-47
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	ASPHALT - 2" Brown fine to medium SAND, trace fine to coarse Gravel	Macro Core Sample 0' - 2': PID = 0.4 ppm
0.6 2'		Macro Core Sample 2' - 4': PID = 1.7 ppm
0.9 3'	Brown SILT, trace fine to coarse Gravel, Cobble, fine Sand & Clay	
1.2 4'		Macro Core Sample 4' - 5': PID = 0.2 ppm
1.5 5'		
1.8 6'		
2.1 7'	Refusal at 5' on Gray SCHIST/GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-48
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 2.4 ppm
0.6 2'	Brown SILT, trace fine to coarse Gravel, Cobble & fine Sand	
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 2.7 ppm
1.2 4'		
1.5 5'		
1.8 6'	Refusal at 4' on Gray SCHIST/GNEISS	
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-49
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 0.4 ppm
0.6 2'	Brown SILT, trace fine to coarse Gravel, Cobble & fine Sand	Macro Core Sample 2' - 4': PID = 1.2 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2 4'	Refusal at 4' on Gray SCHIST/GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-50
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel - 8"	Macro Core Sample 0' - 2': PID = 0.2 ppm
0.6 2'	Brown SILT, trace fine to coarse Gravel, Cobble & fine Sand	Macro Core Sample 2' - 4': PID = 0.8 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2 4'	Refusal at 4' on Gray SCHIST/GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-51
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel - 8"	Macro Core Sample 0' - 2': PID = 0.8 ppm
0.6 2'	Brown SILT, trace fine to coarse Gravel, Cobble & fine Sand	
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 0.7 ppm
1.2 4'	Refusal at 4' on Gray SCHIST/GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-52
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel - 4"	Macro Core Sample 0' - 2': PID = 1.7 ppm
0.6 2'	Dark-Brown fine SAND & SILT, trace fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 3.6 ppm
0.9 3'	-----	
1.2 4'	Orange-Brown SILT, trace fine to coarse Gravel, Cobble & fine Sand	Macro Core Sample 4' - 5': PID = 0 ppm
1.5 5'	-----	
1.8 6'	-----	
2.1 7'	Refusal at 5' on Gray Granitic GNEISS	
2.4 8'	-----	
2.74 9'	-----	
3 10'	-----	
3.4 11'	-----	
3.7 12'	-----	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-53
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 4.7 ppm
0.6 2'	Dark-Brown fine SAND & SILT, trace fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 6.1 ppm
0.9 3'		
1.2 4'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 5': PID = 0.3 ppm
1.5 5'		
1.8 6'		
2.1 7'	Refusal at 5' on Gray Granitic GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-54
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 2.6 ppm
0.3	1'		
0.6	2'	Dark-Brown fine SAND & SILT, trace fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 2.8 ppm
0.9	3'		
1.2	4'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 5': PID = 0.2 ppm
1.5	5'		
1.8	6'		
2.1	7'	Refusal at 5' on Gray Granitic GNEISS	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-55
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 3.9 ppm
0.6 2'	Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 5.1 ppm
0.9 3'		
1.2 4'	Dark-Brown SILT, trace fine to coarse Gravel, Cobble & fine Sand (Petroleum Odor)	Macro Core Sample 4' - 6': PID = 142.3 ppm
1.5 5'		
1.8 6'	Groundwater at 6'	Macro Core Sample 6' - 8': PID = 97.3 ppm
2.1 7'		
2.4 8'	Gray fine SAND (Strong Petroleum Odor)	
2.74 9'		
3 10'		Macro Core Sample 8' - 12': PID = 50.1 ppm
3.4 11'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt (Petroleum Odor)	
3.7 12'	End of Boring at 3.7m (12')	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-56
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel - 4"	Macro Core Sample 0' - 2': PID = 4.1 ppm
0.6 2'	Brown SILT, little fine to medium Sand, trace fine to coarse Gravel & Cobble	Macro Core Sample 2' - 4': PID = 1.9 ppm
0.9 3'	ASPHALT	Macro Core Sample 4' - 6': PID = 5.9 ppm
1.2 4'	Dark-Brown SILT, trace fine to coarse Gravel, Cobble & fine Sand	Macro Core Sample 6' - 8': PID = 3.3 ppm
1.5 5'	Gray to Dark-Brown fine SAND & Silt, trace fine to coarse Gravel & Clay	Groundwater at 6.5'
1.8 6'	Groundwater at 6.5'	Macro Core Sample 8' - 12': PID = 3.1 ppm
2.1 7'		
2.4 8'		
2.74 9'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt (Petroleum Odor)	
3 10'		
3.4 11'		
3.7 12'	End of Boring at 3.7m (12')	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-57
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m	ft	Description	Comments
0.3	1'	Dark-Brown SILT, trace fine Sand & Gravel - 4"	Macro Core Sample 0' - 2'; PID = 3.2 ppm
0.6	2'	Brown SILT, little fine to medium Sand, trace fine to coarse Gravel & Cobble	
0.9	3'		Macro Core Sample 2' - 4'; PID = 5.0 ppm
1.2	4'	Dark-Brown SILT, trace fine to coarse Gravel, Cobble & fine Sand	Macro Core Sample 4' - 8'; PID = 3.7 ppm
1.5	5'		
1.8	6'	Gray fine SAND & Silt, trace fine to coarse Gravel	
2.1	7'	Groundwater at 7'	
2.4	8'	Brown fine to coarse GRAVEL, little coarse Sand	
2.74	9'		
3	10'	Refusal at 8' on Gray GNEISS	
3.4	11'		
3.7	12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-58
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel - 8"	Macro Core Sample 0' - 2': PID = 1.4 ppm
0.6 2'	Brown SILT, trace fine to coarse Gravel, Cobble & fine Sand	Macro Core Sample 2' - 4': PID = 2.5 ppm
0.9 3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2 4'	Refusal at 4' on Gray Granitic GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/26/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-59
Date Finished: 9/26/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 3.1 ppm
0.6 2'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 2' - 4': PID = 5.3 ppm
0.9 3'		
1.2 4'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 5': PID = 2.0 ppm
1.5 5'		
1.8 6'		
2.1 7'	Refusal at 5' on Gray Granitic GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-60
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 0.2 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 0.5 ppm
0.9 3'		Macro Core Sample 4' - 6': PID = 0.6 ppm
1.2 4'	Refusal at 6' on Gray Granitic GNEISS	
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-61
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.1 ppm
0.6 2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 2' - 4': PID = 1.5 ppm
0.9 3'		
1.2 4'	Refusal at 6' on Gray Granitic GNEISS	Macro Core Sample 4' - 6': PID = 0.4 ppm
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/1/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-62
Date Finished: 10/1/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m	ft	Description	Comments
0.3	1'	ASPHALT - 3"	Macro Core Sample 0' - 2': PID = 0.1 ppm
0.6	2'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 2' - 4': PID = 1.2 ppm
0.9	3'		
1.2	4'		Macro Core Sample 4' - 8': PID = 0.9 ppm
1.5	5'	Tan fine to medium SAND, trace Silt	
1.8	6'		
2.1	7'		
2.4	8'	Groundwater at 8'	
2.74	9'		
3	10'	Dark-Gray to Black Organic SILT	Macro Core Sample 8' - 12': PID = 0.1 ppm
3.4	11'		
3.7	12'	End of Boring at 3.7m (12')	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-63
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 2': PID = 1.2 ppm
0.6 2'	Brown SILT, little fine to medium Sand, trace fine to coarse Gravel	Macro Core Sample 2' - 4': PID = 2.8 ppm
0.9 3'		
1.2 4'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 4' - 4.5': PID = 0 ppm
1.5 5'		
1.8 6'		
2.1 7'	Refusal at 4.5' on Gray Granitic GNEISS	
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 9/29/03	Logical Environmental Solutions Geoprobe Boring Log	Boring No.: GP-64
Date Finished: 9/29/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 - Route 25 Monroe & Trumbull, CT	Inspector: C. Criscuolo

Depth m ft	Description	Comments
0.3 1'	Dark-Brown SILT, trace fine Sand & Gravel	Macro Core Sample 0' - 3': PID = 2.8 ppm
0.6 2'	Brown SILT, little fine to medium Sand, trace fine to coarse Gravel	
0.9 3'	Refusal at 3' on Gray Granitic GNEISS	
1.2 4'		
1.5 5'		
1.8 6'		
2.1 7'		
2.4 8'		
2.74 9'		
3 10'		
3.4 11'		
3.7 12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%