GEL Engineering of NC INC
an affiliate of The GEL Group INC
problem solved

INITIAL ABATEMENT ACTION REPORT FOR CLOSED ORPHAN UNDERGROUND STORAGE TANK

101 Park Street, Carlene Green Crisp Property Parcel #4
Canton, North Carolina
TIP # B-3656, WBS Element # 33202.1.2
Haywood County

North Carolina Department of Transportation
Geotechnical Engineering Unit
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

October 14, 2010

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6 Initial Abatement Action Report

In addition to reporting initial response and abatement actions and assessment actions and presenting initial site characterization, this newly-created Initial Abatement Action Report must fulfill the requirements, when a release has been discovered, for the following individual reports:

- ☐ **Site Check Report** (Section C)
- ☑ **UST Closure Report (UST-12) with UST-2 Form** (Section D)
- ☑ **Post-Excavation Soil Contamination Assessment Report** (Section H)
- ☐ **Free Product Recovery Report** (Section E)

Check the applicable report(s). Complete Sections A-L, as required, including the sections specifically designated for the reports you have indicated. The Initial Abatement Action Report must be submitted to the appropriate regional office within 90 days following discovery of release.

A. Site Information

1. Site Identification
   - Date of Report: October 14, 2010
   - Facility I.D.: NA UST Incident Number (if known): NA
   - Site Name: Parcel #4
   - Site Street Address: 101 Park Street
   - City/Town: Canton Zip Code: 28716 County: Haywood
   - Description of Geographical Data Point (e.g., diesel fill port): UST excavation
   - Location Method (GPS, topographical map, other): GPS
   - Latitude (decimal degrees): 35.531200 N Longitude (decimal degrees): 82.842543 W
2. Information about Contacts Associated with the Leaking UST System *(Addresses must include street, city, state, zip code and mailing address, if different).*
   - UST Owner: Unknown
     Address: Unknown Tel.: Unknown
   - UST Operator: Unknown
     Address: Unknown Tel: Unknown
   - Property Owner: Carlene Green Crisp
     Address: Unknown Tel: Unknown
   - Property Occupant: NAPA Auto Parts
     Address: 101 Park Street Tel: 828-648-7700
   - Consultant/Contractor: GEL Engineering of NC, Inc.
     Address: P.O. Box 14262 Tel: 919-323-8828
   - Analytical Laboratory: Prism Laboratories, Inc. State Certification No. 402
     Address: 449 Springbrook Road, Charlotte, NC 28224 Tel: 704-529-6364
3. Information about Release
   - Date Discovered: August 31, 2010
   - Estimated Quantity of Release: < 5 gallons
   - Cause of Release: Unknown
   - Source of Release (Dispenser/Piping/UST): Unknown
   - Sizes and contents of UST system(s) from which the release occurred): 2,000-gallon gasoline UST
4. Certification (***The title page must display the seal and signature of the certifying P.E. or L.G. and the name and certification number of the company or corporation, if applicable [See 15A NCAC 2L .0103(e)].***)

I, Andrew D. Eyer, a Professional Engineer/Licensed Geologist *(circle one)* for (firm or company of employment), do certify that the information contained in this report is correct and accurate to the best of my knowledge. *(Please Affix Seal and Signature)*

GEL Engineering of NC, Inc. (Name of company or corporation) is licensed to practice geology/engineering *(circle one or both)* in North Carolina. The certification number of the company or corporation is C-301/C-1938.

INITIAL ABATEMENT ACTION REPORT

Gasoline UST (UST #002)
Parcel #4
Carlene Green Crisp Property
101 Park Street
Canton, NC

B. Site History and Characterization

1. Provide UST owner and operator information.

   - List the names, addresses, telephone numbers, and dates of ownership/operation of all previous UST owners and operators of the UST system(s). Present in table form (Use Reporting Table B-2, Site History, UST Owner/Operator and Other RP Information, from the Guidelines, Appendix B.).

     See Table 1 of this report

2. Provide UST information (inclusive of all USTs, currently and historically in place at facility). For each UST, provide the following information in table form (Use Reporting Table B-1, Site History, UST/AST System and Other Release Information, from the Guidelines, Appendix B.):

   - Tank identification number (keyed to a site map showing the locations of all UST systems);

     UST #002

   - Last contents of tank;

     Gasoline

   - Previous contents of tank (if any);

     Not applicable.

   - Capacity of tank in gallons;

     2,000

   - Construction (material and structure);

     Steel, single-walled

   - Tank dimensions;

     5 feet x 12 feet

   - Installation date;

     Not Known

B. Site History and Characterization (continued)

2. Provide UST information (continued)

   - Description of piping and pump(s) associated with each UST;

     No product piping or pumps observed during UST removal.

   - Status of UST (in use or not in use, closed in place, closed by removal; date of last use, date of closure);

     Closed by removal on August 18, 2010. Date of last use unknown.

   - Indication of a release

     Detected DRO concentration (12 mg/kg) in one of four closure soil samples exceeded NCDENR DRO action level.

   Provide discussion to supplement Table B-1 and the UST location map in order to clarify the spatial and historical relationships among tanks and between tanks and piping and dispensers and a brief description of all historical compliance issues and releases (indicate incident number)

   UST #001 and UST #002 were adjacent USTs located at 101 Park Street, as shown in Figure 2. The history of the USTs has not been documented, but local sources have indicated that the facility currently at the site (NAPA Auto Parts) was previously an automobile dealership that used the USTs for servicing its vehicles. Operation dates for the dealership are not known. There were no known releases associated with the USTs.

3. Provide non-UST information.

   Not applicable.

4. Provide a comprehensive description of the release, including date discovered, cause and source (including tank identification number and contents), and the relationship of historical UST releases, non-UST releases, and off-site releases (indicate incident number) to contamination from current release.

   There were no indications of a release from UST #001 or UST #002 observed when they were removed on August 18, 2010, and no evidence of deterioration of either UST. A "release" from UST #002 was suspected based on the analytical results for closure soil samples collected from beneath the UST (12 mg/kg DRO).

B. Site History and Characterization (continued)

5. Provide a brief description of site characteristics (including status of facility (active or inactive), land use of site and surrounding area, water supply, topography, vegetation, surface water, wells, buildings, surface cover, soil type, depth to and nature of bedrock, depth to groundwater, direction of groundwater flow, etc.)

   The site is currently paved, with an onsite operating NAPA Auto Parts facility. It is located adjacent to the Pigeon River, as shown in Figures 1, 2, and 3. Soil observed during UST removals was micaseous clayey, silty fill material, grading to cohesive, plastic clay at the bottom of the UST excavation pit (8 feet below ground surface). Depth to groundwater and direction of groundwater flow are not known. Groundwater flow of the uppermost unconfined aquifer is assumed to be in easterly direction towards the adjacent Pigeon River based on topography shown on Figure 1 of this report. NCDOT is planning modifications to Park Street in the vicinity of the site, as shown in Figure 3.

6. Summarize initial abatement actions, assessment activities, and corrective actions performed to date and list all reports previously submitted.

   PID readings of 0.0 ppm were measured in all UST closure samples collected for UST #001 and UST #002 following their removal on August 18, 2010. No over-excavation of soil surrounding the former USTs was performed at that time because there was no indication that the soil was impacted. Soil samples P4-1 and P4-2 were collected at a depth of 8 feet below ground surface from beneath UST #001, and soil samples P4-3 and P4-4 were collected at a depth of 8 feet below ground surface from beneath UST #002 (see Figure 2). All four samples were analyzed for GRO and DRO.

   A 24-hour release notification (NCDENR Form UST-61) was submitted to the Asheville Regional Office of NCDENR on August 31, 20101 based on the detection of 12 mg/kg DRO in soil sample P4-3, which exceeded the NCDENR action level of 10 mg/kg. The excavation was backfilled with clean fill material to land surface and compacted following collection of the closure soil samples, then paved with new asphalt (see Photographs 5 and 6 in Appendix IX).

   A confirmation soil sample, SB4-3A, was collected on September 16, 2010 at 8 feet below ground surface at the same location as UST #002 closure soil sample P4-3 and analyzed for risk-based parameters specified in NCENR's UST closure guidance document for gasoline USTs (VOCs by 8260B and VPH by the MADEP Method).

C. Site Check Report

Not applicable

D. UST Closure Report (following UST-12 Format) and Site Investigation Report of Permanent Closure or Change-in Service of UST (UST-2 Form)

UST-12 closure report requirements are addressed in this Initial Abatement Action report. A UST-2 Form for the closure of UST #001 and UST #002 is provided in Appendix II.

E. Free Product Investigation and Recovery Report

Not applicable

F. Groundwater and Surface Water Investigation

Not applicable

G. Initial Response and Abatement Activities

1. Describe initial response actions performed within 24 hours of the release

- Submittal of 24-hour Release Report and UST Leak Reporting Form (UST-61);

A completed UST-61 form was submitted to the Asheville Regional Office of NCDENR on August 31, 2010, within 24 hours following discovery of the suspected release (analytical data for closure soil samples).

- Action to prevent further release and to determine source of the release;

1,000 gallons of residual waste oil/water (> 90% water) was removed from UST #001, and 426 gallons of residual gasoline/water (> 90% water) was removed from UST #002 using a vacuum truck. Once the USTs were removed, the exteriors of the USTs were examined, and no corrosion holes or rust were identified on the bottom or sides of either UST.

- Identification and mitigation of hazards due to exposure to pollutants;

Based on observed conditions in the UST excavation following the removal of the USTs, no remaining hazards were identified.

- Identification and mitigation of hazards due to fire, explosion, and vapor hazards;

The atmospheres of UST #001 and UST #002 were monitored with a LEL meter prior to their removal. All measurements were < 10% of LEL. All PID measurements for soil from the excavation pit indicated levels of 0.0 ppm. Therefore, no remaining hazards were identified.

G. Initial Response and Abatement Activities (continued)

2. Describe initial abatement actions performed

   - Completion of investigation to confirm presence and determine source of release;

     A confirmation soil sample (SB4-3A) was collected on September 16, 2010, at a depth of 8 feet below ground surface at the same location as UST #002 closure soil sample P4-3 and analyzed for risk-based parameters specified in NCENR's UST closure guidance document for gasoline USTs (VOCs by 8260B and VPH by the MADEP Method).

   - Investigation and recovery of free product;

     Not applicable….no free product was encountered.

   - Continued mitigation and monitoring of fire, explosion, and vapor hazards;

     Further mitigation and monitoring of hazards were not required following removal of UST #001 and UST #002.

   - Remediation of hazards posed by exposed contaminated soil;

     Not applicable

   - Submittal of 20-Day Report summarizing the progress of the initial actions performed within the 20-day period following the discovery of the release;

     A 20-Day Report was not submitted to NCDENR. The Asheville Regional Office of NCDENR stated that one was not required for this suspected release, and that the information required for a 20-Day Report would be provided in the Initial Abatement Action Report.

   - Soil excavation activities;

     Not applicable….no contaminated soil was encountered.

H. Excavation of Contaminated Soil

1. Describe source and estimated extent of soil contamination determined in initial investigations (e.g., site check, UST system closure), referencing maps and cross-sections in Section J and tables presenting soil sampling information and results in Section K.

   No contaminated soil was identified during UST closure activities for UST #001 and UST #002.

H. Excavation of Contaminated Soil (continued)

- Sampling location and depths; locations of tanks; piping dispensers, sumps, areas of staining; utility lines; potential receptors; buildings; relationship of area of contaminated soil to groundwater and bedrock.

  Closure soil samples P4-1 through P4-4 (shown in Figure 2) were collected from the excavation bottom beneath UST #001 and UST #002 on August 18, 2010 at a depth of 8 feet below ground surface. Analytical results for the collected soil samples are presented in Table 3 and Appendix VIII, and PID readings for the soil samples are shown on Figure 2. A confirmation soil sample, SB4-3A, was collected on September 16, 2010 from the same location as closure soil sample P4-3 (see Figure 2). Analytical results for confirmation soil sample SB4-3A are presented in Table 3 and Appendix VIII.

  An operating NAPA Auto Parts facility is located less than 5 feet southwest of former UST #002, as shown in Figure 2. Neither bedrock nor groundwater was encountered during closure of the USTs, and both groundwater and bedrock are believed to be greater than 10 feet below the bottom of the UST excavation pit. No piping, dispensers, or pumps or were located in the vicinity of the former USTs. An existing sanitary sewer service line is located less than 3 feet west of former UST #002. No other underground utilities were noted in the vicinity of the former USTs.

- If part or all of UST system was removed, indicate dimensions of resulting pits and trenches.

  A pit 13 feet wide by 15 feet long by 8 feet deep remained following the removal of UST #001 and UST #002, as shown in Figure 2.

2. Describe excavation process, referencing maps and cross-sections in Section J, tables presenting soil sampling information and results in section K and disposal manifests and geological logs in Section J.

   - Describe type of equipment used.

     A trackhoe was used to remove the USTs, and backfill and compact the excavation (see photographs in Appendix IX).

   - Describe field screening, including:

     - Physical characteristics of soil samples, as observed during collection;

       All soil samples consisted of brown, cohesive, plastic clay (see Figure 2).

     - Field instrumentation used to screen soils;

       The samples were screened with a MiniRAE2000 PID.

H. Excavation of Contaminated Soil (continued)

2. Describe excavation process, referencing maps and cross-sections in Section J, tables presenting soil sampling information and results in section K and disposal manifests and geological logs in Section J (continued)

   - Describe field screening, including: (continued)

     - Field instrument calibration procedures;

       The PID was calibrated to 10.6 parts per million isobutylene using standard calibration gas in accordance with manufacturer's instructions prior to screening.

     - Screening results.

       PID screening was performed on the four UST closure samples (P4-1 through P4-4). All four samples had readings of 0.0 ppm.

   - Indicate the final dimensions of the excavation.

     13 feet wide by 15 feet long by 8 feet deep

   - Indicate the volume (in cubic yards) and weight (in tons) of soil excavated from each excavation (show calculations).

     No soil was removed for disposal or treatment.

   - Describe the relationship of final excavation pit to former UST system, to groundwater, to bedrock, and to structures.

     The approximate relationship of the former UST system to the existing NAPA Auto Parts facility and the final excavation is shown in Figure 2. Neither bedrock nor groundwater was encountered during closure of the USTs, and both groundwater and bedrock are believed to be greater than 10 feet below the bottom of the UST excavation pit.

   - Indicate if the excavation operation ceased on encountering clean soil, groundwater, or bedrock.

     The excavation operation ceased following the removal of UST #001 and UST #002. There was clean soil on the excavation bottom based on visual and olfactory evidence, as well as PID readings for the UST closure soil samples.

H. Excavation of Contaminated Soil (continued)

3. Describe post-excavation confirmation soil sampling, referencing maps and cross-sections in Section J, tables presenting soil sampling information and results in Section K, and geological logs in Section L as follows:

   - Describe the sample location and depth, and methods of collection and analysis for each excavation.

     The locations and depths of soil samples P4-1 through P4-4, as well as confirmation soil sample SB4-3A, are shown in Figure 2. Soil samples P4-1 through P4-4 were collected as grab samples from the trackhoe bucket, using Encore samplers to collect samples for GRO analysis. Confirmation soil sample SB4-3A was collected as a grab sample from a DPT core that was obtained from a depth of 8 feet to 9 feet below ground surface. Encore samplers were used to collect the soil samples from the DPT core for VOC and VPH analysis. Sampling protocol is described in Appendix V.

   - Note if multiple excavations were performed sequentially in an area of contaminated soil. i.e., if confirmatory sampling following primary excavation indicated that contaminated soil remained, so that further excavation was performed and a second set of confirmatory samples was collected and analyzed.

     No additional excavation was performed following the removal of UST #001 and UST #2.

   - If contaminated soil was allowed to remain after final excavation, indicate precisely the location and depth of the residual contamination and explain why is not removed.

     No contaminated soil was encountered in excavation. PID readings of closure soil samples P4-1 through P4-4 did not indicate that impacted soil remained, so excavation was stopped following removal of UST #001 and UST #002.

4. Document soil investigation.

   - Provide soil sampling information for all samples collected following excavation and during previous investigations. Refer to table provided in Section K: Table B-3, Summary of Soil sampling results; to figures, in Section J, and to appendices, in Section L. Information should include:

     - Lithologic descriptions from logs for boring, excavations;

       All soil samples consisted of brown, cohesive, plastic clay (see Figure 2).

H. Excavation of Contaminated Soil (continued)

4. Document soil investigation (continued).

   - Provide soil sampling information for all samples collected following excavation and during previous investigations. Refer to table provided in Section K: Table B-3, Summary of Soil sampling results; to figures, in Section J, and to appendices, in Section L. Information should include: (continued)

     - Type of samples;

       Soil samples were collected as grab samples from the bottom of the UST excavation, as shown in Figure 2.

     - Sample collection procedures;

       Soil samples P4-1 through P4-4 were collected as grab samples from the backhoe bucket, using Encore samplers to collect samples for GRO analysis. Confirmation soil sample SB4-3A was collected as a grab sample from a direct push technology (DPT) core that was obtained from a depth of 8 feet to 9 feet below ground surface. Encore samplers were used to collect the soil samples from the DPT core for VOC and VPH analysis. Sampling protocol is described in Appendix V.

     - Locations of the soil samples;

       The soil sample locations are shown in Figure 2.

     - Depths of the soil samples;

       The soil sample depths (8 feet below ground surface) are shown in Figure 2.

     - Time/date collected;

       Soil samples P4-1 through P4-4 were collected on August 18, 2010. Confirmation soil sample SB4-3A was collected on September 16, 2010. The times of the sample collections are provided on the Chain of Custody form in Appendix VII.

     - Sample identification;

       Soil sample IDs were P4-1 through P4-4, and SB4-3A, as shown in Figure 2. Soil samples P4-1 through P4-4 were collected at the bottom of the UST excavation immediately following the removal of the USTs, and confirmation soil sample SB4-3A was collected at the same depth and location of closure soil sample P4-3 approximately 1 month following UST closure activities.

H. Excavation of Contaminated Soil (continued)

4. Document soil investigation (continued).

- Provide soil sampling information for all samples collected following excavation and during previous investigations. Refer to table provided in Section K: Table B-3, Summary of Soil sampling results; to figures, in Section J, and to appendices, in Section L. Information should include: (continued)

  - Indication of phase of sampling: site check, closure, IAA, etc.;

    All soil samples were collected as part of the UST closure.

  - Methods of soil sample analysis

    Soil samples P4-1 through P4-4 were analyzed for gasoline range organics (GRO) and diesel range organics (DRO) by EPA Method 8015. Confirmation soil sample SB4-3A was analyzed for volatile petroleum hydrocarbons (VPH) by the MADEP Method and volatile organic compounds (VOCs) by EPA Method 8260B.

- Document quality-control measures information, including:

  - Sample handling procedures including sample preservation techniques and sample transport procedures;

    Sample handling procedures are described in Appendix VII. Sample containers and Encore samplers were new, and samples requiring preservation (GRO, VPH, and VOCs) were placed in sample containers provided by lab with pre-measured preservative. All samples were placed on ice in a cooler, and transported to the laboratory within 48 hours following completion of soil sampling activities.

  - Decontamination procedures;

    The trackhoe used for UST removal and soil sampling was decontaminated by the subcontractor prior to arrival at the site. No other equipment used in the soil sampling required decontamination.

  - Time and date samples were submitted to lab;

    Soil samples P4-1 through P4-4 were submitted to the laboratory at 3:15 PM on August 20, 2010. Confirmation soil sample SB4-3A was submitted to the laboratory at 12:15 PM on September 17, 2010.

  - Collection of samples for quality control purposes.

    No quality control samples were collected for analysis.

H. Excavation of Contaminated Soil (continued)

4. Document soil investigation (continued).

   - Describe soil investigation results, including:

     - Presentation of analytical results for soil samples;

       Certificates of Analysis for the collected soil samples are presented in Appendix VIII, and the results are summarized in Table 3.

     - Discussion of the results in relation to the appropriate cleanup levels, Identifying the samples that exceed the lower of the residential MSCCs or the soil-to-groundwater MSCCs.

       Confirmation soil sample SB4-3A was the only soil sample collected from the UST excavation following removal of UST #001 and UST #002 for which a MSCC was exceeded. It had a detected benzene concentration of 0.0066 mg/kg, which exceeded the lower of the respective residential MSCC or the soil-to-groundwater MSCC (soil-to-groundwater MSCC for benzene = 0.0056 mg/kg).

     - Discussion of effect of quality control sample results on the interpretation of soil sample results.

       Not applicable...no quality control samples were collected.

5. Describe disposal of contaminated soil, referencing tables presenting soil sampling information and results in Section K and disposal manifests in Section L, as follows:

   - Indicate volume and weight of contaminated soil removed from each excavation at site;

     Not applicable. No contaminated soil was removed from the UST excavation.

   - Describe construction of any stockpile of contaminated soil, describe collection and analysis of stockpile samples;

     Not applicable.

   - Indicate if soil was treated onsite;

     Soil was not treated onsite.

   - Indicate if soil was transported offsite for disposal and, if so, by whom and to what destination;

     Contaminated soil was not transported offsite for disposal.

   - Confirm the excavation was back-filled with clean soil;

     The excavation was backfilled with clean fill material from an offsite source and compacted by the subcontractor.

H. Excavation of Contaminated Soil (continued)

6. Present conclusions, as follows:

   - Briefly summarize excavation process;

     Not applicable. No excavation following removal of the USTs.

   - Describe the extent of final excavation and collection of confirmatory soil samples;

     The dimensions of the final excavation are shown in Figure 2. UST closure soil samples were collected as grab samples from undisturbed soil obtained from the bottom of the UST excavation using the trackhoe bucket. Confirmation soil sample SB4-3A was collected as a grab sample from a DPT core that was obtained from a depth of 8 feet to 9 feet below ground surface.

   - Indicate if excavation ceased on encountering groundwater or bedrock;

     No groundwater or bedrock was encountered during the excavation process.

   - Indicate whether soil contamination levels in exceedance of the lowest MSCCs remain in the excavation, further excavation being determined infeasible by the UST Section, or soil contaminant levels in final excavation confirmatory samples were equal to or below the lowest MSCCs.

     Based on the analytical results for confirmation soil sample SB4-3A, soil with a benzene level exceeding the benzene soil-to-groundwater MSCC by 0.0010 mg/kg remains in the backfilled excavation.

I. Conclusions

1. If soil contaminant levels in exceedance of the lowest MSCCs remain in the excavation(s) (further excavation being determined infeasible by the UST Section), if groundwater or bedrock has been encountered in proximity to contamination, or if free product is present, it should be concluded that a Limited Site Assessment must be performed and a report submitted within 120 days of discovery of the release; but

2. If soil contaminant levels in final excavation confirmatory samples were equal to or below the lowest MSCCs and if groundwater, bedrock, and free product were not encountered in the excavation(s), then no further action should be requested.

   No further action is requested. Although residual petroleum-contaminated soil (cohesive, plastic clay) remained in the final excavation, the detected level of benzene in the soil exceeding the respective MSCC is not indicative of a significant potential threat to human health or the environment. No groundwater, bedrock, or free product was encountered in the excavation.

J. Figures

1. A topographic map illustrating the area within 1500-foot radius of the source of the release;

   Attached as Figure 1 of this report

2. Site map and cross-sections illustrating the UST system(s)/excavation area(s), drawn to scale;

   Attached as Figure 2 of this report

3. Map(s) and geological cross-sections, drawn to scale, depicting all soil analytical results obtained to date and final confirmatory sample results;

   Attached as Figure 2 of this report.

4. Map(s) and geological cross-sections, drawn to scale, depicting groundwater and surface water analytical results;

   Not applicable.

5. A free product map showing thickness (in feet) and extent of free product using contour lines;

   Not applicable.

6. Potential receptor map that clearly identifies water supply wells and other potential receptors.

   Not applicable…no known receptors.

K. Tables

1. Site history

   Attached as Table 1 of this report.

2. Public and private water supply well and other receptor information

   Attached as Table 2 of this report.

3. Field screening results

   PID screening was performed on the four UST closure samples (P4-1 through P4-4). All four samples had readings of 0.0 ppm. Therefore, no table has been included.

K. Tables (continued)

4. Summary of soil sampling results

   Attached as Table 3 of this report.

5. Summary of groundwater and surface water sampling results

   Not applicable.

6. Monitoring and remediation well construction information

   Not applicable.

7. Free product recovery information

   Not applicable.

8. Cumulative volume of free product recovered from site

   Not applicable.

9. Current and historical groundwater elevations and free product thickness

   Not applicable.

L. Appendices

A. Tightness testing results and supporting documentation

   Not applicable.

B. Notification of Intent: UST Permanent Closure or Change-in-Service (UST-3 Form)

   Attached as Appendix I.

C. Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2 Form)

   Attached as Appendix II.

D. Site specific Health and Safety Plan (HASP)

   Attached as Appendix III.

E. Certificate of UST disposal

   Attached as Appendix IV.

F. Groundwater field measurements

   Not applicable.

L. Appendices (continued)

G. Standard procedures

Attached as Appendix V.

H. Soil, water, free product, and sludge disposal manifests and soil treatment permits

Attached as Appendix VI.

I. Complete chain-of-custody records

Attached as Appendix VII.

J. Copy of all laboratory analytical records

Attached as Appendix VIIII.

K. Photographs

Attached as Appendix IX.

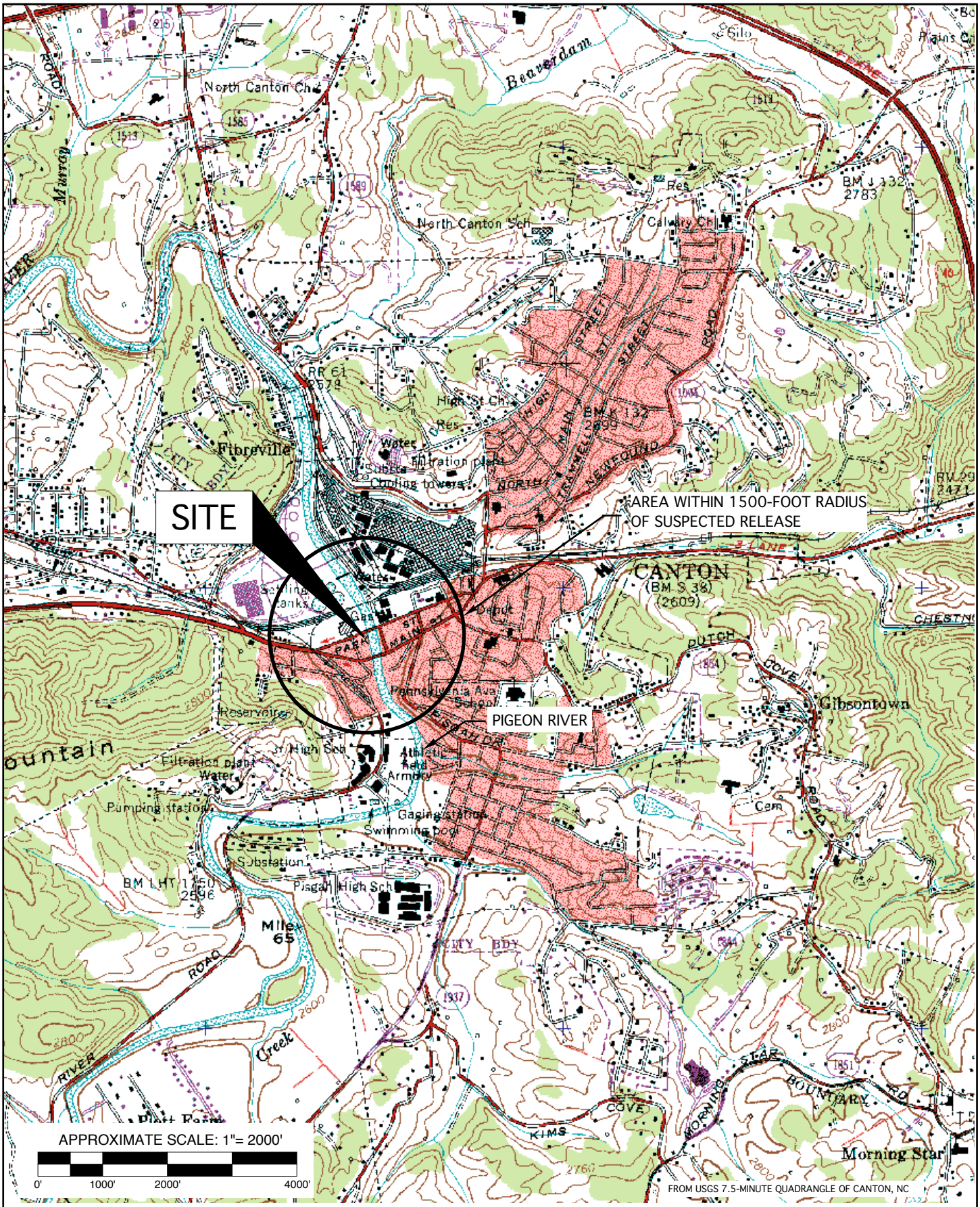
L. Geologic logs for excavation(s)/borings

No borings were constructed. Description of excavation lithology is provided on Figure 2 of this report

M. Monitoring well construction forms

Not applicable.

FIGURES



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GEL

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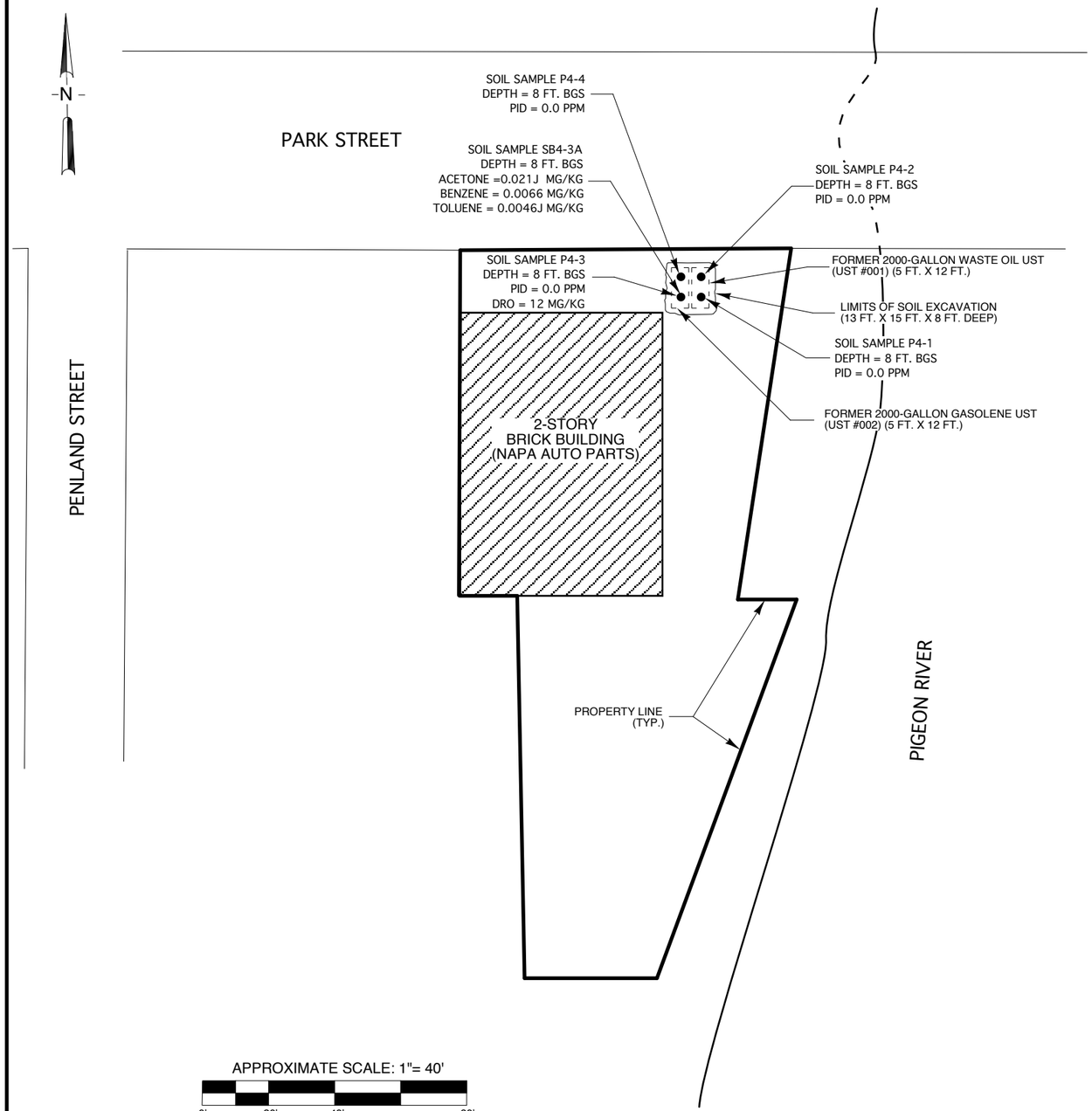
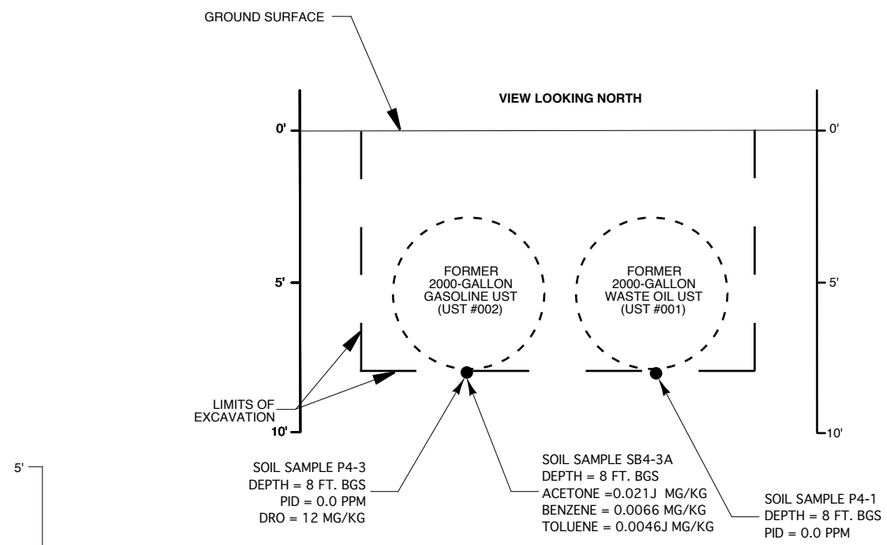
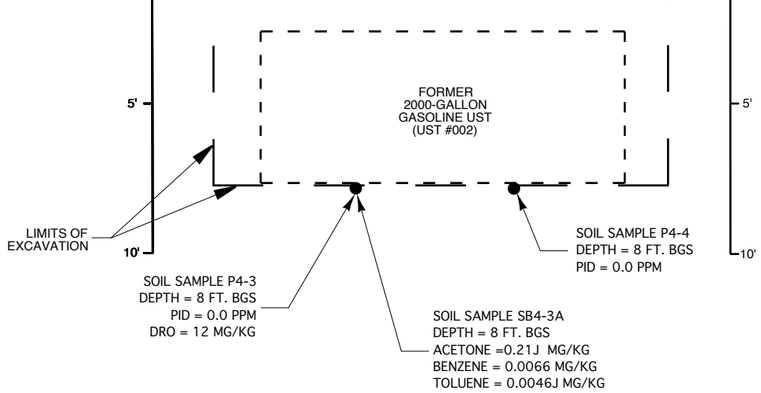
PROJECT: ncdt00410		
INITIAL ABATEMENT ACTION REPORT PARCEL #4 101 PARK STREET CANTON, NORTH CAROLINA STATE PROJECT B-3656, WBS #33202.1.2	TOPOGRAPHIC MAP SHOWING LOCATION OF SITE	FIGURE 1
DATE: September 29, 2010	DRAWN BY: ADE APPRV. BY:	







LITHOLOGY: BROWN, DRY. FRIABLE, MICASEOUS, SILTY, CLAYEY FILL MATERIAL CHANGING TO BROWN, DAMP, COHESIVE, PLASTIC, MASSIVE CLAY AT 8 FEET BELOW LAND SURFACE

GEL ENGINEERING of NC, Inc.

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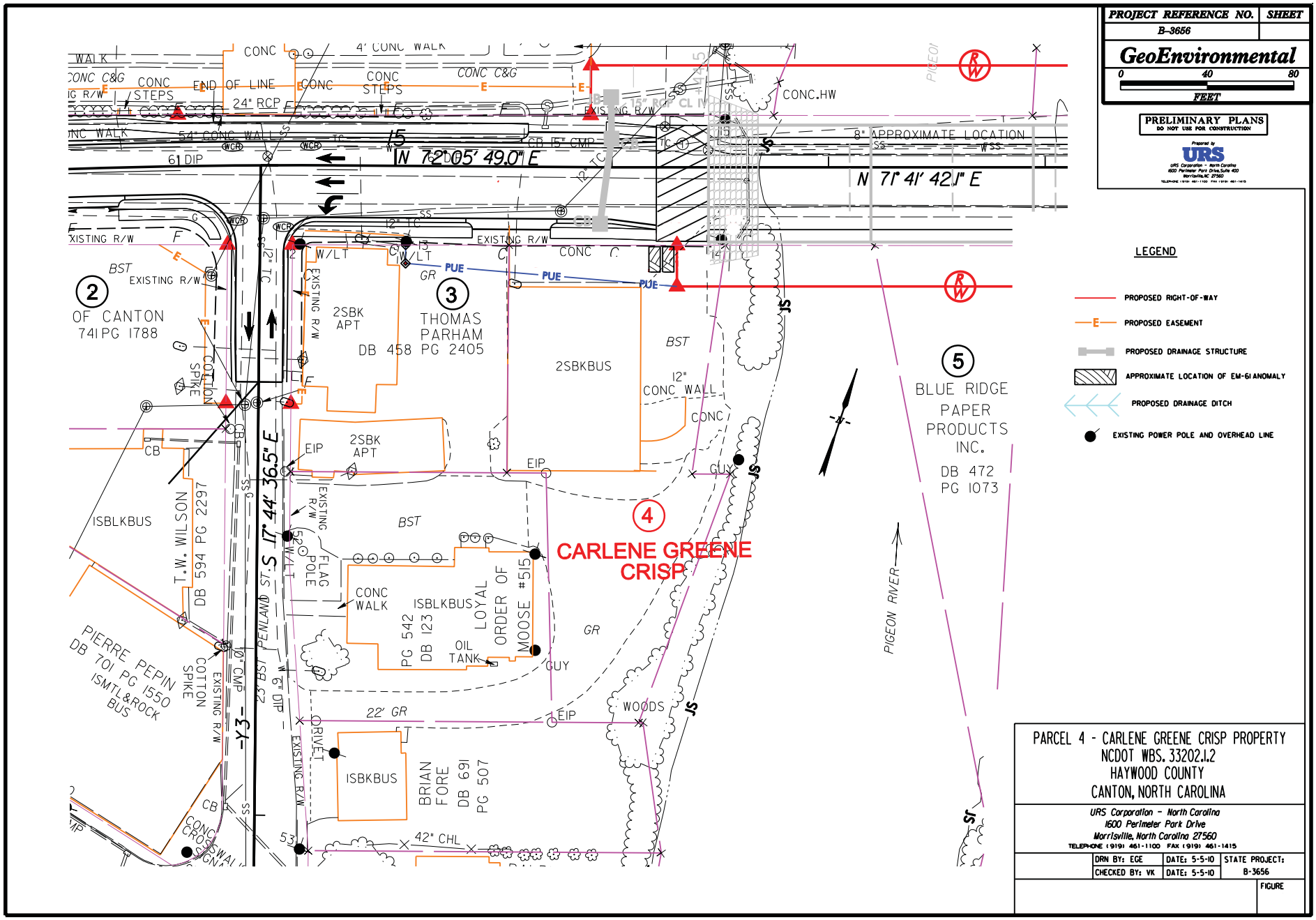
P.O. BOX 14262
RESEARCH TRIANGLE PARK, NC 27709
(919) 544-1100

PROJECT: ncdt00410		
INITIAL ABATEMENT ACTION REPORT PARCEL #4 101 PARK STREET CANTON, NORTH CAROLINA STATE PROJECT B-3656, WBS #33202.1.2	SITE PLAN	FIGURE 2
DATE: October 4, 2010	DRAWN BY: ADE	APPRV. BY:

FIGURE 3

NCDOT Design Proposed for Park Street Right-of-Way (modified from Figure 4 of URS Preliminary Site Assessment Report, dated May 14, 2010)


PROJECT REFERENCE NO.
B-3656
SHEET
GeoEnvironmental
0 40 80
FEET
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
Prepared by
URS
URS Corporation - North Carolina
1600 Perimeter Park Drive, Suite 400
Morrisville, NC 27560
TELEPHONE (919) 461-1100 FAX (919) 461-1415
LEGEND
PROPOSED RIGHT-OF-WAY
PROPOSED EASEMENT
PROPOSED DRAINAGE STRUCTURE
APPROXIMATE LOCATION OF EM-61 ANOMALY
PROPOSED DRAINAGE DITCH
EXISTING POWER POLE AND OVERHEAD LINE
N 72° 05' 49.0" E
N 71° 41' 42.1" E
S 17° 44' 36.5" E
2 OF CANTON 741 PG 1788
3 THOMAS PARHAM DB 458 PG 2405
4 CARLENE GREENE CRISP
5 BLUE RIDGE PAPER PRODUCTS INC. DB 472 PG 1073
T.W. WILSON DB 594 PG 2297
PIERRE PEPIN DB 701 PG 1550
BRIAN FORE DB 691 PG 507
LOYAL ORDER OF MOOSE #515 PG 542 DB 123
PIGEON RIVER
PARCEL 4 - CARLENE GREENE CRISP PROPERTY
NCDOT WBS. 33202.1.2
HAYWOOD COUNTY
CANTON, NORTH CAROLINA
URS Corporation - North Carolina
1600 Perimeter Park Drive
Morrisville, North Carolina 27560
TELEPHONE (919) 461-1100 FAX (919) 461-1415
DRN BY: EGE DATE: 5-5-10 STATE PROJECT:
CHECKED BY: VK DATE: 5-5-10 B-3656
FIGURE

TABLES

TABLE 1

Site History

Table B-1: Site History – UST/AST System and Other Release Information

Revision Date: NA Incident Number and Name: 101 Park Street, Canton, NC

UST ID Number	Current/Last Contents *	Previous Contents *	Capacity (in gallons)	Construction Details **	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST ***	Was release associated with the UST System?
001	Gasoline	Gasoline	2000	Steel, Single-walled	5' x 12'	None Observed	Not Known	Closed (Removed on 8/18/10)	Unknown
002	Gasoline	Gasoline	2000	Steel, Single-walled	5' x 12'	None Observed	Not Known	Closed (Removed on 8/18/10)	Unknown

Add additional records as necessary

AST ID Number	Current/Last Contents *	Previous Contents *	Capacity (in gallons)	Construction Details **	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of AST ***	Was release associated with the AST System?
NA									

Add additional records as necessary

Incident Number	Material Released	Date of Release	Description of Release
NA	Gasoline	N/A	One of two closure soil samples for UST #002 indicated slightly elevated TPH level and benzene level; source of elevate levels not determined.

Add additional records as necessary

* Gasoline (unleaded or leaded), diesel, used oil, waste oil, aviation fuel, etc., or pesticides, non-halogenated or halogenated solvents, etc.

** Fiberglass (single- or double-walled), steel (single- or double-walled), steel with FRP (single- or double-walled), steel with liner, other, unknown.

*** Currently operational, not in use or temporarily closed (specify date), permanently closed in place (specify date), permanently closed by removal (specify date)

Table B-2: Site History - UST/AST Owner/Operator and Other Responsible Party Information

Revision Date: N/A Incident Number and Name: 101 Park Street, Canton, NC

UST ID Number	N/A	Facility ID Number	N/A
Name of Owner		Dates of Operation (mm/dd/yy to mm/dd/yy)	
Abandoned in proposed NCDOT right-of-way		Not known	
Street Address			
N/A			
City	State	Zip	Telephone Number
N/A			N/A
Name of Operator		Dates of Operation (mm/dd/yy to mm/dd/yy)	
Not known		Not known	
Street Address			
Not known			
City	State	Zip	Telephone Number
Not known			Not known
Incident Number	N/A		
Name of Other Responsible Party		Dates of Release(s) (mm/dd/yy to mm/dd/yy)	
N/A		N/A	
Street Address			
N/A			
City	State	Zip	Telephone Number
N/A			N/A

Add additional records for all owners, operators and responsible parties as necessary

TABLE 2

Public and Private Water Supply and Other Receptor Information

Table B-5: Public and Private Water Supply Well and Other Receptor Information

Revision Date: NA Incident Number and Name: 101 Park Street, Canton, NC Facility ID#: NA

(Include the following information. The well number (can use tax number), well owner and user names, addresses and telephone numbers, use of the well (potable, agricultural, etc.), well depth, type of well (i.e., drilled or bored), well casing depth, well screen interval and distance of well from the source area of the release)

Public and Private Water Supply Wells

Well #	Well Owner/ User (indicate which)	Address	Phone Number	Well Use	Well Depth (ft BGS)	Type of Well	Well Casing Depth (ft. BGS)	Well Screen Interval (x to y ft. BGS)	Distance from source area of release (ft.)	Up or downgradient
	Not known (no known well at 101 Park Street, and no known wells in neighborhood)									

Ft BGS = feet below ground surface

Other Receptors

(other public water supplies, reservoirs, water supply lines, surface water bodies, wellhead protection areas, recharge areas for deep aquifers, subsurface structures)

Receptor ID	Description	Location	Contact	Phone Number	Usage			Up or down-gradient	Distance from source area of release (ft.)
NA	NA								

Table B-6: Property Owners/ Occupants

Revision Date: NA Incident No. and Name: NA Facility ID#: NA

Tax Parcel Number/ Map ID	Owner/ Occupant Name (Last, First MI)	Address
	Owner: Crisp, Carlene G. (onsite facility currently leased by Napa Auto Parts)	Owner addreess is unknown

TABLE 3

Summary of Soil Sampling Results

Table B-3: Summary of Soil Sampling Results

Revision Date: NA Incident Number and Name: 101 Park Street, Canton, NC Facility ID#: NA

Analytical Method (e.g., VOC by EPA 8260) →					EPA 8015	EPA 8260B	EPA 8260B	EPA 8260B						
Contaminant of Concern →					DRO	Acetone	Benzene	Toluene						
Sample ID	Date Collected (m/dd/yy)	Source Area (eg. Tank pit 1)	Sample Depth (ft BGS)	Incident Phase (Closure, 20Day, LSA, etc.)										
P4-1	8/18/10	Pit Bottom	8	Closure	< 8.9	N/A	N/A	N/A						
P4-2	8/18/10	Pit Bottom	8	Closure	< 10	N/A	N/A	N/A						
P4-3	8/18/10	Pit Bottom	8	Closure	12	N/A	N/A	N/A						
P4-4	8/18/10	Pit Bottom	8	Closure	< 9.7	N/A	N/A	N/A						
P4-3A	9/16/10	Pit Bottom	8	Closure	N/A	0.21J	0.0066	0.0046J						
Soil to groundwater MSCC (mg/kg)					None	24	0.0056	4.3						
Residential MSCC (mg/kg)					None	14,000	18	1200						
Industrial/Commercial MSCC (mg/kg)					None	360,000	164	32,000						

Indicate method detection limit for contaminants when analyzed, but not detected (e.g., < 1, 10, 42)
List any contaminant detected above the method detection limit
MSCC = maximum soil contaminant concentration
ft. BGS = feet below ground surface
Results must be reported in mg/kg.
mg/kg =milligrams per kilogram

APPENDICES

APPENDIX I

Notice of Intent: UST Permanent Closure or Change-in-Service (UST-3 Form)

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

Return completed form to:
The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out.
SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

Complete and return at least **thirty (30) days** prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a **five (5) working days** notice is acceptable.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. The *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity): Orphan tanks - Unknown

Street Address:

City: County:

State: Zip Code:

Phone Number:

II. LOCATION

Facility Name or Company: Carlene Green Crisp Property

Facility ID # (If known):

Street Address: 101 Park Street

City: Canton County: Haywood Zip Code: 28716

Phone Number:

III. CONTACT PERSONNEL

Name:	Company Name:	Job Title:	Phone Number:
Cheryl Youngblood	NCDOT	Sr. Proj. Engineer	919-250-4088

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

1. Contact local fire marshal.
2. Plan entire closure event.
3. Conduct Site Soil Assessment.
4. If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks.*
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
7. If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
8. Keep closure records for three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name:	Contractor Company Name:		
Brian Bauer	Mountain Environmental Group		
Address:	**State:**	**Zip Code:**	**Phone No:**
1560 Pisgah Drive, Canton	NC	28716	828-648-5556
Primary Consultant Name:	**Primary Consultant Company Name:**		**Consultant Phone No:**
Andrew Eyer	GEL Engineering of NC, Inc.		919-323-8828

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

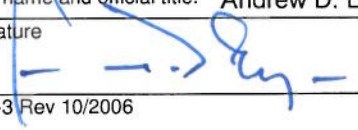
Tank ID No.	Size in Gallons	Last Contents	Proposed Activity: Closure – Removal	Proposed Activity: Closure – Abandonment in Place *	Proposed Activity: Change-In-Service – New Contents Stored
1	6,000 (assumed)	Gasoline (assumed)	X		
2	6,000 (assumed)	Gasoline (assumed)	X		

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: Andrew D. Eyer of GEL Engineering of NC, Inc. for NCDOT

Signature	Date Signed	SCHEDULED REMOVAL DATE	**Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes**
	8/11/10	08/17/10	

APPENDIX II

Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2 Form)

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

Return completed form to:
The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out.
SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY:
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

For more than five UST systems you may attach additional forms as needed.

Permanent closure – For permanent closure, complete all sections of this form.

Change-in-service – For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. A copy of the UST-12 form and the *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity): Unknown (orphan USTs)
Street Address: Unknown
City: Unknown County: Unknown
State: Unknown Zip Code: Unknown
Phone Number: Unknown

II. LOCATION OF TANKS

Facility Name or Company: NAPA Auto Parts (leasee)
Facility ID # (If known): NA
Street Address: 101 Park Street
City: Canton County: Haywood Zip Code: 28716
Phone Number: 828-648-7000

III. CONTACT PERSONNEL

Contact for Facility: Cheryl Youngblood, NCDOT Geotech Engineering Unit		Job Title: GeoEnvironmental Project Mgr.	Phone. No: 919-250-4088
Closure Contractor Name: Brian Bauer	Closure Contractor Company: Mtn. Environmental Group	Address: 1569 Pisgah Dr., Canton, NC 28716	Phone. No: 828-648-5556
Primary Consultant Name: Andrew Eyer	Primary Consultant Company: GEL Engineering of NC, Inc.	Address: P.O. Box 14262	Phone. No: 919-323-8828

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

V. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Change-in-Service Date	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS

VII. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
001	2000	5' x 12'	Waste Oil	Unknown	08/18/10	Unknown	☐	☒	☐	☒	☐	☒
002	2000	5' x 12'	Gasoline	Unknown	08/18/10	Unknown	☐	☒	☐	☒	☐	☒
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

VIII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title ~~of owner or owner's authorized representative~~	Signature	Date Signed
ANDREW D. EYER, REP. FOR NCDOT		10/14/10

APPENDIX III

Site Specific Health and Safety Plan (HASP)

THE GEL GROUP, INC.
FIELD SERVICE'S SITE SAFETY PLAN

~~Revision Date: June 1,~~ 2005

Project Code: ncdt00410
Project Description: Oversight of UST closures + soil sampling
Project Manager: Andrew Eyer Extension: Pager/Cell: 919-210-3658

HAZARDS LIKELY TO BE ENCOUNTERED:

Expected Contaminant at Site: Petroleum

___Electrocution/Shock	___Toxic Atmosphere	__x_Pinch Points
__x_Slip/Trip/Fall	__x_Excavation	___Flying Debris
___Manual Lifting	___Confined Space	__x_Vehicle Traffic
__x_Rough/Sharp Material	__x_Noise	___Railway Traffic
__x_Rotating/Moving Machinery	___Flammable Materials	___Asbestos/Lead
___Hot Surfaces/Steam Cleaner	__x_Chemicals	__x_Heat/Cold
___Overhead Hazard	___Insects	

PERSONAL PROTECTIVE EQUIPMENT NEEDED:

__x_Safety Glasses	___Work Gloves
___Hearing Protection	__x_Chemical Resistant Gloves
__x_Hard Hat	__x_Protective Clothing
__x_Steel-toed Boots	__x_Traffic Control Measures
___Snake Boots	___OVA/4-Gas Meter
___Fall Protection Equipment	___Buddy System
___Respiratory Protection	___ Other

ADDITIONAL SAFETY MEASURES, PROCEDURES OR OPERATIONS TO FOLLOW:

Do not enter excavations deeper than 5 feet
UST contractor to operator its corporate HASP

LOCATION OF NEAREST MEDICAL ASSISTANCE: **ATTACH MAP TO HOSPITAL**

Haywood Regional Medical Center, 262 Leroy George Drive, Clyde, NC, 828-452-8202

DOES THE CLIENT HAVE A FIRST-AID FACILITY AND DO YOU KNOW WHERE IT IS LOCATED?

Yes___ No__XX__
Phone No_____

WILL YOU BE OPERATING UNDER THE CLIENT'S SITE SAFETY PLAN ALSO?

Yes_____No__XX__

IF YES, HAVE YOU REVIEWED THE CLIENT'S SITE SAFETY PLAN, AND DO YOU UNDERSTAND, AND ARE YOU IN AGREEMENT WITH ALL ASPECTS OF THE PLAN?
Yes__NA__ No_____

IF YES, ARE ALL GEE/GEG PERSONNEL PROPERLY TRAINED FOR THE SAFETY HAZARDS OF THIS WORK?
Yes___NA___ NO_____

IF THE ANSWER TO THE ABOVE IS "NO", THESE EMPLOYEES MAY NOT ENTER THE WORK SITE UNTIL PROPERLY TRAINED.

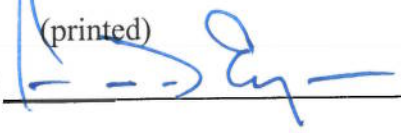
IN CASE OF A SAFETY INCIDENT:

EMERGENCY PHONE NUMBER FOR MEDICAL ASSISTANCE: 911 or Site #_____

HUMAN RESOURCES: Nancy Lacy, 843-556-8171

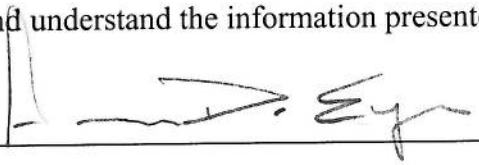
CORPORATE SAFETY DIRECTOR: John Crawford, 843-556-8171

GEE/GEG PROJECT MANAGER: Andrew Eyer
(printed)

PROJECT MANAGER'S SIGNATURE 

DATE: August 12, 2010

I have read and understand the information presented above:



Date: 8/16/10

Date:

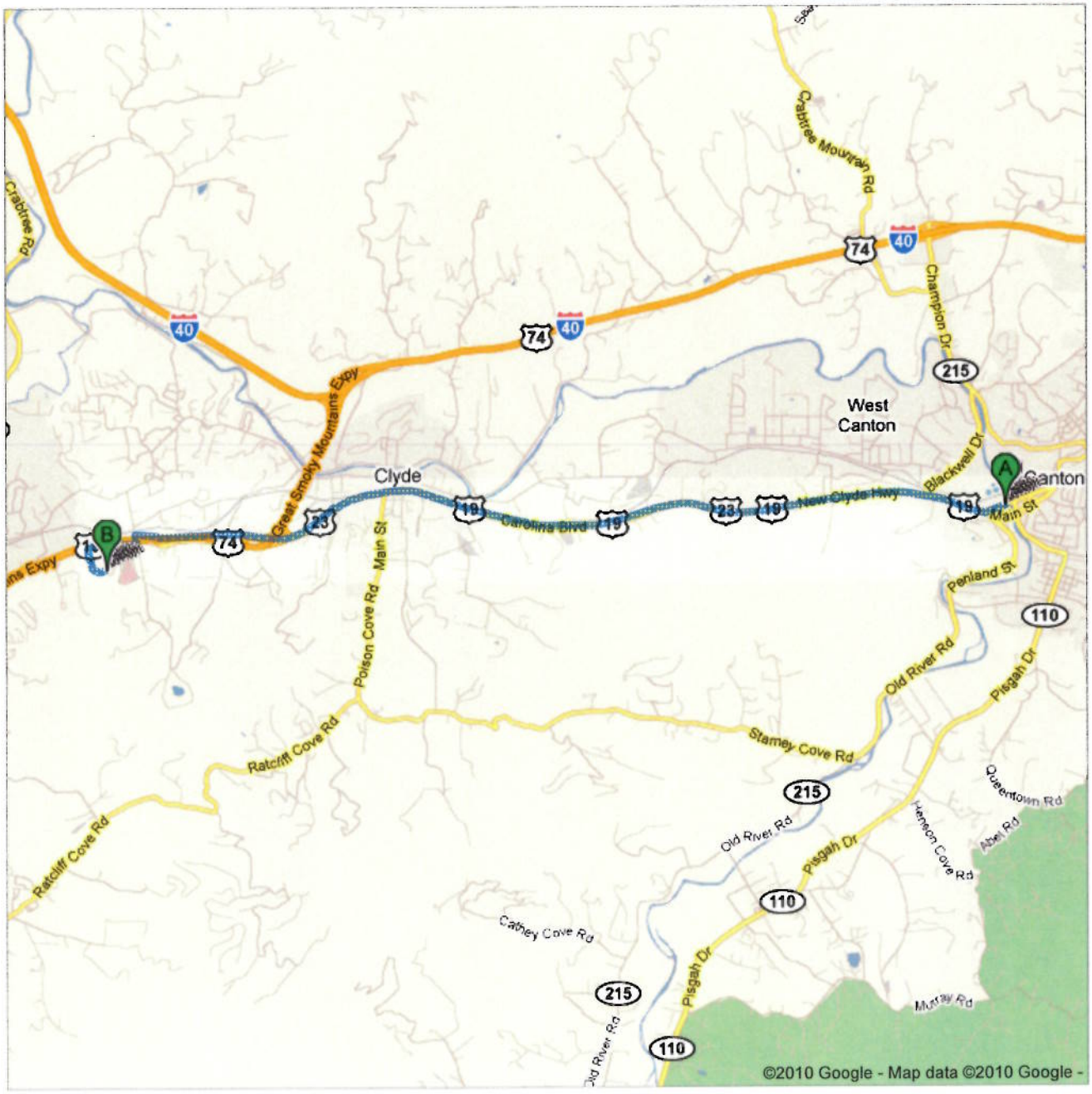
Date:

Date:

Date:

Google maps

Directions to 262 Leroy George Dr, Clyde, NC 28721
6.2 mi – about **9 mins**



101 Park St, Canton, NC 28716

19	1. Head **southwest** on **US-19 S/US-23 S/Park St** toward **Penland St** Continue to follow US-19 S/US-23 S About 7 mins	go 5.1 mi total 5.1 mi
19	2. Take the ramp onto **US-19 S/US-23 S/US-74 W**	go 0.4 mi total 5.5 mi
	3. Take exit **105** for **W Jones Cove**	go 0.2 mi total 5.6 mi
	4. Turn **left** at **Jones Cove Rd**	go 282 ft total 5.7 mi
	5. Take the 1st **right** onto **Hospital Dr** About 1 min	go 0.3 mi total 6.0 mi
	6. Take the 1st **left** onto **Leroy George Dr** Destination will be on the right	go 0.2 mi total 6.2 mi

262 Leroy George Dr, Clyde, NC 28721

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.

APPENDIX IV

Certificate of UST Disposal

MOUNTAIN
Environmental Services, Inc.

1560 Pisgah Drive
Canton, NC 28716
Phone: (828) 648-5556

TANK DISPOSAL MANIFEST

Tank Location and Owner/Authorized Representative Certification:

Tank Location: Napa Canton, Parcel #4

Physical Address: Parcel #4 Napa Canton

Tank Owner or Authorized Representative: ANDREW EYER (FOR NCDOT)

Phone No:

The undersigned certifies that the tanks listed on this manifest have been removed from the premises of the tank owner.

Printed Name *Signature* *Date*

Description of Tanks:

Tank No.	Capacity	Previous Contents	Comments
001	2000 gal	waste oil	
002	2,000 gal	gasoline	

Transporters:

The undersigned transporters certify that the above listed tanks have been transported to:

☑ Mountain Environmental Services, Inc., 1560 Pisgah Drive, Canton, NC 28716

Printed Name: Matt Browning

Signature:

Date: 8/18/10

☑ The metal recycling facility listed below under Disposal Certification

Printed Name: Matt Browning

Signature: Matt Browning

Date: 8/24/10

Cleaning and Demolition Certification:

The undersigned certifies that the above listed tanks have been cleaned and demolished according to American Petroleum Institute (API) Recommended Practice 1604, "Removal and Disposal of Used Underground Petroleum Storage Tanks", and API Publication 2015, "Cleaning Petroleum Storage Tanks".

Matthew Blackburn *Printed Name* | *Signature* | 8/18/10 *Date*

Disposal Certification:

The undersigned certifies that the cleaned and demolished tanks listed above have +accepted by the metal recycling facility.

Recycling Facility: X

× SONIA GRIBBLE *Printed Name* × Sonia Gribble *Signature* × 8/24/10 *Date*

APPENDIX V

Standard Procedures

Field Procedures for Soil Screening and Sampling

UST Closure Soil Samples and Confirmation Soil Sample
101 Park Street
Canton, North Carolina
August 18, 2010 and September 16, 2010

Following the removal of UST #001 and UST #002 on August 18, 2010, soil samples P4-1 through P4-4 were collected with the trackhoe bucket at two locations beneath each of the former USTs on the excavation bottom. Encore samplers were used to collect soil samples from the bucket for analysis of gasoline range organics (GRO). The soil samples were transferred to new sample containers and placed in a cooler with ice.

For each closure soil sample, soil was also transferred from each soil sampling location to a sealed plastic bag and allowed to equilibrate for approximately 5 minutes. The soil was then screened using a MiniRAE2000 photoionization detector (PID) that had been calibrated to 10.6 parts per million (ppm) isobutylene prior to conducting the soil screening. The PID probe was inserted through a small opening in the plastic bag for a measurement.

Confirmation soil sample SB4-3A was collected on September 16, 2010 using a decontaminated AMS direct push technology (DPT) rig. The 1.5-inch diameter DPT probe was advanced to a depth of 8 feet below ground surface at the location where closure sample P4-3 had been collected on August 18, 2010. A new acetate core barrel was then inserted into the DPT probe, and soil was collected from 8 feet to 9 feet below ground surface by advancing the DPT probe. Once the core had been retrieved, the acetate core barrel was incised and split apart to expose the soil core. An Encore sampler was used to collect soil sample SB4-3A from the core, transferred into new pre-preserved sample containers, and placed in a cooler with ice. The sample was kept on ice until submittal to the laboratory.

APPENDIX VI

Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	1-800-261-0031	NCDOT-MTN-3

GENERATOR

5. Generator's Name and Mailing Address: NCDOT
Geotech Engineering Unit
1589 Mail Service Center, Raleigh, NC 27699

Generator's Site Address (if different than mailing address): NAPA - Canton Parcel 4

Generator's Phone:

6. Transporter 1 Company Name: Mountain Environmental — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Mountain Environmental
1560 Pisgah Dr.
Canton, NC 28716 — U.S. EPA ID Number:

Facility's Phone: (828)648-5556

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated waste, Nonhazardous liquid, N.O.S. (used oil / impacted water)	001	VT	1426	gal	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Andrew Eyer (FOR NCDOT) — Signature: [signature] — Month: 8 — Day: 18 — Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Gombert — Signature: [signature] — Month: 8 — Day: 18 — Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Matthew Blackburn — Signature: [signature] — Month: 8 — Day: 18 — Year: 10

APPENDIX VII

Chain-of-Custody Records

August 18, 2010 Closure Soil Samples

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: WBS 33202.1.2 TIP B-3656
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NCDOT GEOTECH ENG. UNIT
Address: 1589 MAIL SERVICE CENTER RALEIGH, NC 27699

Client Company Name: GEL ENG OF NC
Report To/Contact Name: ANDREW EYER
Reporting Address: P.O. BOX 14262 DURHAM, NC 27709
Phone: 919-323-8820 Fax (Yes) (No):
Email (Yes) (No) Email Address ade@gel.com
EDD Type: PDF ✓ Excel ___ Other ___
Site Location Name: PARCEL A
Site Location Physical Address: 101 PARK ST CANTON, NC

Purchase Order No./Billing Reference
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☑ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	X		
Received ON WET ICE? Temp 4.1	X		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?			X
VOLATILES rec'd W/OUT HEADSPACE?	X		X
PROPER CONTAINERS used?	X		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ✓ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED DRO	ANALYSES REQUESTED GRO	REMARKS	PRISM LAB ID NO.
PA-1	8/18/10	1705	SOIL	g, c	3		METHANOL (GRO)	✓	✓		01
PA-2	〃	1708	〃	〃	3		〃	✓	✓		02
PA-3	〃	1810	〃	〃	3		〃	✓	✓		03
PA-4	〃	1816	〃	〃	3		〃	✓	✓		04

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature [signature] Sampled By (Print Name) ANDREW EYER Affiliation GEL

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature) [signature]	[signature]	8/20/10	1215
Relinquished By: (Signature) [signature]	[signature]	8/25/10	1355
Relinquished By: (Signature) [signature]	Received For Prism Laboratories By: [signature]	8/23/10	1515

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other

COC Group No. 0080586

Additional Comments:

PRISM USE ONLY

Site Arrival Time:	
Site Departure Time:	
Field Tech Fee:	
Mileage:	

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ ___	☑ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

September 16, 2010 Confirmation Soil Sample (SB4-3A)

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: UST REMOVALS, B3656
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NCDOT
Address: RALEIGH, NC

Client Company Name: GEL ENG. OF NC
Report To/Contact Name: A. EYER
Reporting Address: P.O. Box 14262 RTP NC 27709
Phone: 919-323-8823 Fax (Yes) (No): _____
Email (Yes) (No) Email Address ade@gel.com
EDD Type: PDF____ Excel____ Other_____
Site Location Name: CANTON, HAYWOOD CO.
Site Location Physical Address: 92/101 PARK ST CANTON, NC

Purchase Order No./Billing Reference WBS 33202.1.2
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☑ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	X		
Received ON WET ICE? Temp 3.7	X		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?			X
VOLATILES rec'd W/OUT HEADSPACE?			X
PROPER CONTAINERS used?	X		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ USACE____ FL____ NC ✓
SC____ OTHER____ N/A____
Water Chlorinated: YES____ NO____
Sample Iced Upon Collection: YES ✓ NO____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED 8260	VPH					REMARKS	PRISM LAB ID NO.
SB7-4A	9/16/10	0845	Soil	VOA	5	40 mL	SOD. BISULF METH	✓	✓					8260 + MTBE, EIPE	01
SB7-7A	9/16/10	0922						✓	✓					"	02
SB7-8A	9/16/10	0940						✓	✓					"	03
SB4-3A	9/16/10	1005						✓	✓					"	04

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) ANDREW D. EYER Affiliation GEL

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature) Alex Lassiter	091210	0820
Relinquished By: (Signature) Alex Lassiter	Received By: (Signature)	9/17/10	1030
Relinquished By: (Signature) 9/17/10 1215	Received For Prism Laboratories By:	9/17/10	1215

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☑ Prism Field Service ☐ Other _____

COC Group No. 0090413

Additional Comments:

PRISM USE ONLY

Site Arrival Time:	
Site Departure Time:	
Field Tech Fee:	
Mileage:	

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☑ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

APPENDIX VIII

Laboratory Analytical Records

August 18, 2010 Closure Soil Samples

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735

Case Narrative

08/31/2010

GEL Engineering of NC, Inc.
Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: Parcel 4, 101 Park St., Canton, NC
Project No.: WBS# 33202.1.2
Lab Submittal Date: 08/20/2010
Prism Work Order: 0080586

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

VP Laboratory Services

Reviewed By

Data Qualifiers Key Reference:

A	Surrogate recovery above the control limits. No target compounds were detected in this sample. No further action was taken.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

PRISM LABORATORIES, INC. Full-Service Analytical & Environmental Solutions

Sample Receipt Summary

08/31/2010

Prism Work Order: 0080586

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
P4-1	0080586-01	Solid	08/18/10	08/20/10
P4-2	0080586-02	Solid	08/18/10	08/20/10
P4-3	0080586-03	Solid	08/18/10	08/20/10
P4-4	0080586-04	Solid	08/18/10	08/20/10

Samples received in good condition at 4.1 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

GEL Engineering of NC, Inc.
Attn: Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: Parcel 4, 101 Park St., Canton, NC
Project No.: WBS# 33202.1.2
Sample Matrix: Solid

Client Sample ID: P4-1
Prism Sample ID: 0080586-01
Prism Work Order: 0080586
Time Collected: 08/18/10 17:05
Time Submitted: 08/20/10 15:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.9	1.4	1	*8015C	8/25/10 18:29	JMV	P0H0519
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*84 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.4	0.70	50	*8015C	8/30/10 12:26	HPE	P0H0623
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*113 %*		*55-129*	
General Chemistry Parameters									
% Solids	**77.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/25/10 15:15**	**JAB**	**P0H0562**

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

GEL Engineering of NC, Inc.
Attn: Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: Parcel 4, 101 Park St., Canton, NC
Project No.: WBS# 33202.1.2
Sample Matrix: Solid

Client Sample ID: P4-2
Prism Sample ID: 0080586-02
Prism Work Order: 0080586
Time Collected: 08/18/10 17:08
Time Submitted: 08/20/10 15:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	10	1.7	1	*8015C	8/25/10 19:05	JMV	P0H0519
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*71 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	9.1	1.2	50	*8015C	8/30/10 12:58	HPE	P0H0623
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*177 %*		*55-129*	*A*
General Chemistry Parameters									
% Solids	**68.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/25/10 15:15**	**JAB**	**P0H0562**

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

GEL Engineering of NC, Inc.
Attn: Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: Parcel 4, 101 Park St., Canton, NC
Project No.: WBS# 33202.1.2
Sample Matrix: Solid

Client Sample ID: P4-3
Prism Sample ID: 0080586-03
Prism Work Order: 0080586
Time Collected: 08/18/10 18:10
Time Submitted: 08/20/10 15:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**12**	**mg/kg dry**	**8.7**	**1.4**	**1**	***8015C**	**8/25/10 22:37**	**JMV**	**P0H0519**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*95 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.8	0.62	50	*8015C	8/30/10 13:30	HPE	P0H0623
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*91 %*		*55-129*	
General Chemistry Parameters									
% Solids	**80.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/25/10 15:15**	**JAB**	**P0H0562**

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

GEL Engineering of NC, Inc.
Attn: Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: Parcel 4, 101 Park St., Canton, NC
Project No.: WBS# 33202.1.2
Sample Matrix: Solid

Client Sample ID: P4-4
Prism Sample ID: 0080586-04
Prism Work Order: 0080586
Time Collected: 08/18/10 18:16
Time Submitted: 08/20/10 15:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.7	1.6	1	*8015C	8/25/10 20:51	JMV	P0H0519
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*92 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.1	0.66	50	*8015C	8/30/10 14:03	HPE	P0H0623
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*93 %*		*55-129*	
General Chemistry Parameters									
% Solids	**71.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/25/10 15:15**	**JAB**	**P0H0562**

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

GEL Engineering of NC, Inc.
Attn: Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: Parcel 4, 101 Park St., Canton, NC
Project No: WBS# 33202.1.2

Prism Work Order: 0080586
Time Submitted: 8/20/10 3:15:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0H0623 - 5035										
Blank (P0H0623-BLK1)				Prepared & Analyzed: 08/27/10						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.00*		*mg/kg wet*	*5.00*		*100*	*55-129*			
LCS (P0H0623-BS1)				Prepared & Analyzed: 08/27/10						
Gasoline Range Organics	43.2	5.0	mg/kg wet	50.0		86	67-116			
Surrogate: a,a,a-Trifluorotoluene	*5.60*		*mg/kg wet*	*5.00*		*112*	*55-129*			
LCS Dup (P0H0623-BSD1)				Prepared & Analyzed: 08/27/10						
Gasoline Range Organics	44.0	5.0	mg/kg wet	50.0		88	67-116	2	200	
Surrogate: a,a,a-Trifluorotoluene	*5.70*		*mg/kg wet*	*5.00*		*114*	*55-129*			

GEL Engineering of NC, Inc.
Attn: Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: Parcel 4, 101 Park St., Canton, NC
Project No: WBS# 33202.1.2

Prism Work Order: 0080586
Time Submitted: 8/20/10 3:15:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0H0519 - 3545A										
Blank (P0H0519-BLK1)				Prepared: 08/23/10 Analyzed: 08/24/10						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*1.66*		*mg/kg wet*	*1.59*		*104*	*49-124*			
LCS (P0H0519-BS1)				Prepared: 08/23/10 Analyzed: 08/24/10						
Diesel Range Organics	62.2	7.0	mg/kg wet	79.8		78	55-109			
Surrogate: o-Terphenyl	*2.10*		*mg/kg wet*	*1.60*		*132*	*49-124*			*SR*
LCS Dup (P0H0519-BSD1)				Prepared: 08/23/10 Analyzed: 08/25/10						
Diesel Range Organics	65.4	7.0	mg/kg wet	79.9		82	55-109	5	200	
Surrogate: o-Terphenyl	*2.19*		*mg/kg wet*	*1.60*		*137*	*49-124*			*SR*

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0080586-01	P0H0519	25.18 g	1 mL	08/23/10
0080586-02	P0H0519	25.04 g	1 mL	08/23/10
0080586-03	P0H0519	25.04 g	1 mL	08/23/10
0080586-04	P0H0519	25.19 g	1 mL	08/23/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0080586-01	P0H0623	5.94 g	5 mL	08/27/10
0080586-02	P0H0623	4.04 g	5 mL	08/27/10
0080586-03	P0H0623	6.56 g	5 mL	08/27/10
0080586-04	P0H0623	6.88 g	5 mL	08/27/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0080586-01	P0H0562	30 g	30 mL	08/25/10
0080586-02	P0H0562	30 g	30 mL	08/25/10
0080586-03	P0H0562	30 g	30 mL	08/25/10
0080586-04	P0H0562	30 g	30 mL	08/25/10

September 16, 2010 Confirmation Soil Sample (SB4-3A)

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735

Case Narrative

09/30/2010

GEL Engineering of NC, Inc.
Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: NCDOT: Canton UST Removals (B3656)
Project No.: WBS# 33202.1.2
Lab Submittal Date: 09/17/2010
Prism Work Order: 0090413

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

VP Laboratory Services

Reviewed By

Data Qualifiers Key Reference:

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

PRISM LABORATORIES, INC. Full-Service Analytical & Environmental Solutions

Sample Receipt Summary

09/30/2010

Prism Work Order: 0090413

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SB7-4A	0090413-01	Solid	09/16/10	09/17/10
SB7-7A	0090413-02	Solid	09/16/10	09/17/10
SB7-8A	0090413-03	Solid	09/16/10	09/17/10
SB4-3A	0090413-04	Solid	09/16/10	09/17/10

Samples received in good condition at 3.7 degrees C unless otherwise noted.

PRISM LABORATORIES, INC. Full-Service Analytical & Environmental Solutions

Summary of Detections

09/30/2010

Prism Work Order: 0090413

Prism ID	Client ID	Parameter	Method	Result		Units
0090413-01	SB7-4A	Acetone	8260B	0.035	J	mg/kg dry
0090413-02	SB7-7A	Acetone	8260B	0.046	J	mg/kg dry
0090413-03	SB7-8A	Acetone	8260B	0.024	J	mg/kg dry
0090413-04	SB4-3A	Acetone	8260B	0.021	J	mg/kg dry
0090413-04	SB4-3A	Benzene	8260B	0.0066		mg/kg dry
0090413-04	SB4-3A	Toluene	8260B	0.0046	J	mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

GEL Engineering of NC, Inc.
Attn: Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: NCDOT: Canton UST Removals (B3656)
Project No.: WBS# 33202.1.2
Sample Matrix: Solid

Client Sample ID: SB4-3A
Prism Sample ID: 0090413-04
Prism Work Order: 0090413
Time Collected: 09/16/10 10:05
Time Submitted: 09/17/10 12:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**76.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**9/23/10 15:40**	**JAB**	**P0I0474**
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0050	0.0011	1	8260B	9/20/10 19:23	KLA	P0I0384
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.0014	1	8260B	9/20/10 19:23	KLA	P0I0384
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0050	0.0014	1	8260B	9/20/10 19:23	KLA	P0I0384
1,1-Dichloroethane	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
1,1-Dichloroethylene	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
1,1-Dichloropropylene	BRL	mg/kg dry	0.0050	0.0010	1	8260B	9/20/10 19:23	KLA	P0I0384
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.0016	1	8260B	9/20/10 19:23	KLA	P0I0384
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0050	0.0021	1	8260B	9/20/10 19:23	KLA	P0I0384
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
1,2-Dibromoethane	BRL	mg/kg dry	0.0050	0.0014	1	8260B	9/20/10 19:23	KLA	P0I0384
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
1,2-Dichloroethane	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
1,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.0015	1	8260B	9/20/10 19:23	KLA	P0I0384
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
1,3-Dichloropropane	BRL	mg/kg dry	0.0050	0.0010	1	8260B	9/20/10 19:23	KLA	P0I0384
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
2,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
2-Chlorotoluene	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
4-Chlorotoluene	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
4-Isopropyltoluene	BRL	mg/kg dry	0.0050	0.0014	1	8260B	9/20/10 19:23	KLA	P0I0384
Acetone	**0.021 J**	**mg/kg dry**	**0.050**	**0.0022**	**1**	**8260B**	**9/20/10 19:23**	**KLA**	**P0I0384**
Benzene	**0.0066**	**mg/kg dry**	**0.0030**	**0.0013**	**1**	**8260B**	**9/20/10 19:23**	**KLA**	**P0I0384**
Bromobenzene	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
Bromochloromethane	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
Bromodichloromethane	BRL	mg/kg dry	0.0050	0.0011	1	8260B	9/20/10 19:23	KLA	P0I0384
Bromoform	BRL	mg/kg dry	0.0050	0.0011	1	8260B	9/20/10 19:23	KLA	P0I0384
Bromomethane	BRL	mg/kg dry	0.0099	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
Carbon Tetrachloride	BRL	mg/kg dry	0.0050	0.0015	1	8260B	9/20/10 19:23	KLA	P0I0384
Chlorobenzene	BRL	mg/kg dry	0.0050	0.0011	1	8260B	9/20/10 19:23	KLA	P0I0384
Chloroethane	BRL	mg/kg dry	0.0099	0.0026	1	8260B	9/20/10 19:23	KLA	P0I0384
Chloroform	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
Chloromethane	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
Dibromochloromethane	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
Dichlorodifluoromethane	BRL	mg/kg dry	0.0050	0.0010	1	8260B	9/20/10 19:23	KLA	P0I0384
Ethylbenzene	BRL	mg/kg dry	0.0050	0.0010	1	8260B	9/20/10 19:23	KLA	P0I0384

GEL Engineering of NC, Inc.
Attn: Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: NCDOT: Canton UST Removals (B3656)
Project No.: WBS# 33202.1.2
Sample Matrix: Solid

Client Sample ID: SB4-3A
Prism Sample ID: 0090413-04
Prism Work Order: 0090413
Time Collected: 09/16/10 10:05
Time Submitted: 09/17/10 12:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropyl Ether	BRL	mg/kg dry	0.0050	0.0012	1	8260B	9/20/10 19:23	KLA	P0I0384
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0050	0.0011	1	8260B	9/20/10 19:23	KLA	P0I0384
m,p-Xylenes	BRL	mg/kg dry	0.0099	0.0026	1	8260B	9/20/10 19:23	KLA	P0I0384
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.050	0.0015	1	8260B	9/20/10 19:23	KLA	P0I0384
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.099	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.050	0.0011	1	8260B	9/20/10 19:23	KLA	P0I0384
Methylene Chloride	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0099	0.0010	1	8260B	9/20/10 19:23	KLA	P0I0384
Naphthalene	BRL	mg/kg dry	0.0099	0.0027	1	8260B	9/20/10 19:23	KLA	P0I0384
n-Butylbenzene	BRL	mg/kg dry	0.0050	0.0018	1	8260B	9/20/10 19:23	KLA	P0I0384
n-Propylbenzene	BRL	mg/kg dry	0.0050	0.0014	1	8260B	9/20/10 19:23	KLA	P0I0384
o-Xylene	BRL	mg/kg dry	0.0050	0.0011	1	8260B	9/20/10 19:23	KLA	P0I0384
sec-Butylbenzene	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
Styrene	BRL	mg/kg dry	0.0050	0.00097	1	8260B	9/20/10 19:23	KLA	P0I0384
tert-Butylbenzene	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
Tetrachloroethylene	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
Toluene	**0.0046 J**	**mg/kg dry**	**0.0050**	**0.0012**	**1**	**8260B**	**9/20/10 19:23**	**KLA**	**P0I0384**
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00098	1	8260B	9/20/10 19:23	KLA	P0I0384
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00099	1	8260B	9/20/10 19:23	KLA	P0I0384
Trichloroethylene	BRL	mg/kg dry	0.0050	0.0014	1	8260B	9/20/10 19:23	KLA	P0I0384
Trichlorofluoromethane	BRL	mg/kg dry	0.0050	0.0014	1	8260B	9/20/10 19:23	KLA	P0I0384
Vinyl acetate	BRL	mg/kg dry	0.025	0.0034	1	8260B	9/20/10 19:23	KLA	P0I0384
Vinyl chloride	BRL	mg/kg dry	0.0050	0.0013	1	8260B	9/20/10 19:23	KLA	P0I0384
Xylenes, total	BRL	mg/kg dry	0.015	0.0037	1	8260B	9/20/10 19:23	KLA	P0I0384

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*70-130*
Dibromofluoromethane	*104 %*	*84-123*
Toluene-d8	*95 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	18	6.6	100	MADEP VPH	9/24/10 18:58	hea	P0I0485
C9-C12 Aliphatics	BRL	mg/kg dry	18	6.3	100	MADEP VPH	9/24/10 18:58	hea	P0I0485
C9-C10 Aromatics	BRL	mg/kg dry	18	1.9	100	MADEP VPH	9/24/10 18:58	hea	P0I0485

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*84 %*	*70-130*
2,5-Dibromotoluene (FID)	*108 %*	*70-130*

GEL Engineering of NC, Inc.
Attn: Andrew Eyer
P. O. Box 14262
RTP, NC 27709

Project: NCDOT: Canton UST Removals (B3656)
Project No: WBS# 33202.1.2

Prism Work Order: 0090413
Time Submitted: 9/17/2010 12:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0I0384 - 5035										
Blank (P0I0384-BLK1)				Prepared & Analyzed: 09/20/10						
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							

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Project: NCDOT: Canton UST Removals (B3656)
Project No: WBS# 33202.1.2

Prism Work Order: 0090413
Time Submitted: 9/17/2010 12:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0I0384 - 5035										
Blank (P0I0384-BLK1)				Prepared & Analyzed: 09/20/10						
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/L*	*50.0*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*51.2*		*ug/L*	*50.0*		*102*	*84-123*			
Surrogate: Toluene-d8	*47.5*		*ug/L*	*50.0*		*95*	*76-129*			
LCS (P0I0384-BS1)				Prepared & Analyzed: 09/20/10						
1,1-Dichloroethylene	0.0569	0.0050	mg/kg wet	0.0500		114	67-149			
Benzene	0.0475	0.0030	mg/kg wet	0.0500		95	74-127			
Chlorobenzene	0.0451	0.0050	mg/kg wet	0.0500		90	74-118			
Toluene	0.0471	0.0050	mg/kg wet	0.0500		94	71-129			
Trichloroethylene	0.0512	0.0050	mg/kg wet	0.0500		102	75-133			
Surrogate: 4-Bromofluorobenzene	*51.3*		*ug/L*	*50.0*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*52.0*		*ug/L*	*50.0*		*104*	*84-123*			
Surrogate: Toluene-d8	*46.4*		*ug/L*	*50.0*		*93*	*76-129*			

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Project: NCDOT: Canton UST Removals (B3656)
Project No: WBS# 33202.1.2

Prism Work Order: 0090413
Time Submitted: 9/17/2010 12:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0I0384 - 5035										
LCS Dup (P0I0384-BSD1)			Prepared & Analyzed: 09/20/10							
1,1-Dichloroethylene	0.0578	0.0050	mg/kg wet	0.0500		116	67-149	2	200	
Benzene	0.0480	0.0030	mg/kg wet	0.0500		96	74-127	1	200	
Chlorobenzene	0.0456	0.0050	mg/kg wet	0.0500		91	74-118	1	200	
Toluene	0.0477	0.0050	mg/kg wet	0.0500		95	71-129	1	200	
Trichloroethylene	0.0516	0.0050	mg/kg wet	0.0500		103	75-133	0.8	200	
Surrogate: 4-Bromofluorobenzene	*50.3*		*ug/L*	*50.0*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*52.1*		*ug/L*	*50.0*		*104*	*84-123*			
Surrogate: Toluene-d8	*46.5*		*ug/L*	*50.0*		*93*	*76-129*			

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Project: NCDOT: Canton UST Removals (B3656)
Project No: WBS# 33202.1.2

Prism Work Order: 0090413
Time Submitted: 9/17/2010 12:15:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0I0485 - MADEP VPH (S)										
Blank (P0I0485-BLK1)				Prepared & Analyzed: 09/24/10						
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*6.71*		*mg/kg wet*	*8.33*		*81*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*8.62*		*mg/kg wet*	*8.33*		*103*	*70-130*			
LCS (P0I0485-BS1)				Prepared & Analyzed: 09/24/10						
C5-C8 Aliphatics	31.4	5.0	mg/kg wet	32.0		98	70-130			
C9-C10 Aromatics	8.65	5.0	mg/kg wet	10.7		81	70-130			
C9-C12 Aliphatic	35.9	5.0	mg/kg wet	32.0		112	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*7.82*		*mg/kg wet*	*8.33*		*94*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*9.89*		*mg/kg wet*	*8.33*		*119*	*70-130*			
LCS Dup (P0I0485-BSD1)				Prepared: 09/24/10 Analyzed: 09/25/10						
C5-C8 Aliphatics	30.6	5.0	mg/kg wet	32.0		96	70-130	2	200	
C9-C10 Aromatics	7.50	5.0	mg/kg wet	10.7		70	70-130	14	200	
C9-C12 Aliphatic	31.8	5.0	mg/kg wet	32.0		100	70-130	12	200	
Surrogate: 2,5-Dibromotoluene (PID)	*5.68*		*mg/kg wet*	*8.33*		*68*	*70-130*			*SR*
Surrogate: 2,5-Dibromotoluene (FID)	*8.26*		*mg/kg wet*	*8.33*		*99*	*70-130*			

GEL Engineering of NC, Inc.
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Project: NCDOT: Canton UST Removals (B3656)
Project No: WBS# 33202.1.2

Prism Work Order: 0090413
Time Submitted: 9/17/2010 12:15:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0I0474 - NO PREP										
Blank (P0I0474-BLK1)				Prepared & Analyzed: 09/23/10						
% Solids	100	0.100	% by Weight							

Sample Extraction Data

NO PREP

Lab Number	Batch	Initial	Final	Date
0090413-01	P0I0474	30 g	30 mL	09/23/10
0090413-02	P0I0474	30 g	30 mL	09/23/10
0090413-03	P0I0474	30 g	30 mL	09/23/10
0090413-04	P0I0474	30 g	30 mL	09/23/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0090413-01	P0I0384	6.45 g	5 mL	09/20/10
0090413-02	P0I0384	6.7 g	5 mL	09/20/10
0090413-03	P0I0384	6.59 g	5 mL	09/20/10
0090413-04	P0I0384	6.55 g	5 mL	09/20/10

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date
0090413-01	P0I0485	6.58 g	16 mL	09/24/10
0090413-02	P0I0485	6.62 g	16 mL	09/24/10
0090413-03	P0I0485	6.05 g	16 mL	09/24/10
0090413-04	P0I0485	5.49 g	16 mL	09/24/10

APPENDIX IX

Photographs

Photograph 1: View looking south at removal of residual liquid from UST #002 fill pipe prior to removal of UST #001 and UST #002

Photograph 2: View looking east at removal of UST #001. UST fill pipe for UST #002 is shown in lower right corner of photo.

Photograph 3: View looking southwest at removal of UST #002. Holes shown on top of tank were created by UST removal contractor.

Photograph 4: View looking west at UST pit following removal of UST #001 and UST #002..

Photograph 5: View looking southwest at compaction of fill material that had been backfilled into UST excavation.

Photograph 6: View northwest at newly-applied asphalt paving over UST excavation.

Photograph 7: View looking west at DPT borehole for collection of confirmation soil sample SB4-3A.