problem solved

INITIAL ABATEMENT ACTION REPORT FOR CLOSED ORPHAN UNDERGROUND STORAGE TANK

92 Park Street, Town of Canton Property Parcel #7 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

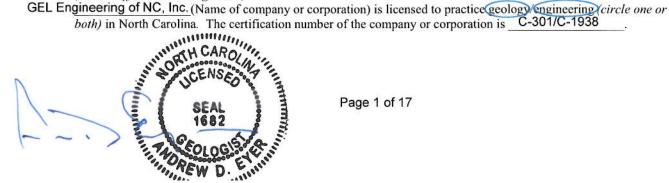
6 Initial Abatement Action Report

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) প্
- 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.

| 1. | Site Identification |
|----|--|
| | Date of Report: October 14, 2010 |
| | Facility I.D.: NA UST Incident Number (if known): NA |
| | Site Name: Parcel #7 |
| | Site Street Address: 92 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 |
| | Examination (dr.s, topographical hap, other). Latitude (decimal degrees): 35.531884 N Longitude (decimal degrees): 82.841743 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: Town of Canton Address: Unknown Tel: Unknown |
| | |
| | Property Occupant: Vacant Address: NA Tel: NA |
| | 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: None |
| | Cause of Release: NA |
| | □ Source of Release (Dispenser/Piping/UST): NA |
| | Sizes and contents of UST system(s) from which the release occurred): |
| 4. | Certification (The title page must display the seal and signature of the certifying P.E. or L.G. and the name |
| | certification number of the company or corporation, if applicable [See 15A NCAC 2L .0103(e)].) |
| Δn | drew D. Eyer , a Professional Engineer/Licensed Geologis) (circle one) for (firm or company |
| | |



INITIAL ABATEMENT ACTION REPORT

Gasoline UST (UST #002)
Parcel #7
Town of Canton Property
92 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;

700

Construction (material and structure);

Steel, single-walled

Tank dimensions:

3.5 feet x 9 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 pumps and no product piping observed for UST #002 during UST removal. However, 1.5-inch diameter underground steel product piping for adjacent UST #001 and UST #003 was observed during the removal of UST #001, UST #002, and UST #3. The piping extended westerly approximately 10 feet from the UST excavation at a depth of 1 foot below ground surface, as shown in Figure 2. Piping was connected to UST #001 and UST #003, but was disconnected at the westerly end of the piping. No liquids were observed in the piping, and they were removed as part of the UST closures.

 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 17, 2010. Date of last use unknown.

Indication of a release

Detected DRO concentrations in three of eight 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, UST #002, and UST #003 were adjacent USTs located at 92 Park Street, as shown in Figure 2. Underground product piping connected to UST #001 and UST #003 was observed and removed during the UST closures. There were no known releases associated with the USTs or the product piping. The history of the UST system has not been documented.

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, UST #002, UST #003, or the associated product piping observed when they were removed on August 16, 2010, and no evidence of deterioration of any of the USTs or piping. Releases from UST #002 and the product piping from UST #001 and UST #003 were suspected based on the analytical results for closure soil samples collected from beneath the UST and the piping.

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 unpaved and vacant. The site is located adjacent to the Pigeon River, as shown in Figures 1, 2, and 3. Soil observed during UST removals was brown, friable, micaseous, silty, clayey fill material, with various debris (brick, rocks, etc.). Depth to groundwater and direction of groundwater flow are not known. Groundwater flow of the uppermost unconfined aquifer is assumed to be in westerly 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, UST #002, UST #003 and the associated product piping following their removal on August 17, 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 P7-1 and P7-2 were collected at a depth of 7 feet below ground surface from beneath UST #001, soil samples P7-3 and P7-4 were collected at a depth of 7 feet below ground surface from beneath UST #002, soil samples P7-5 and P7-6 were collected at a depth of 7 feet below ground surface from beneath UST #003, soil sample P7-7 was collected at a depth of 2 feet below ground surface from beneath the product piping for UST #003, and soil sample P7-8 was collected at a depth of 2 feet below ground surface from beneath the product piping for UST #001 (see Figure 2). All eight 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 23 mg/kg DRO in soil sample P7-4, 41 mg/kg DRO in soil sample P7-8, all of which exceeded the NCDENR DRO action level of 10 mg/kg.

Following the collection of closure soil samples, the UST excavation was backfilled with clean fill material and compacted to 95% Proctor to a depth of 0. 5 feet below ground surface (see Photograph 4 in Appendix IX, and compaction report in Appendix X), then capped with 6 inches of ABC stone, which was compacted by the trackhoe to ground surface (see Photographs 5 in Appendix IX).

B. Site History and Characterization (continued)

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

Confirmation soil samples SB7-4A, SB7-7A, and SB7-8A were collected on September 16, 2010 at the same depths and at the same locations as closure soil samples P7-4, P7-7, and P7-8, respectively. All three confirmation soil samples were 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, UST #002, and UST #003 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).

G. Initial Response and Abatement Activities (continued)

- 1. Describe initial response actions performed within 24 hours of the release (continued)
 - Action to prevent further release and to determine source of the release;

108 gallons and 1304 gallons of residual gasoline/water (> 90% water) was removed from UST #002 and UST #003, respectively, prior to removal of the tanks. No residual liquids were observed in UST #001. In addition, a total of 250 gallons of residual tank bottoms and tank cleaning wastewater was removed from UST #002 and UST #003. Copies of the manifests for disposal of these wastes is provided in Appendix VI. Once the USTs were removed, the exteriors of all three of the USTs were examined, and no corrosion holes or rust were identified on the bottom or sides of any 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, UST #002, and UST #003 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.

- 2. Describe initial abatement actions performed
 - Completion of investigation to confirm presence and determine source of release;

Confirmation soil samples SB7-4A, SB7-7A, and SB7-8A were collected on September 16, 2010 at the same depths and at the same locations as closure soil samples P7-4, P7-7, and P7-8, respectively. All three confirmation soil samples were 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, UST #002, and UST #003.

Remediation of hazards posed by exposed contaminated soil;

Not applicable

G. Initial Response and Abatement Activities (continued)

- 2. Describe initial abatement actions performed (continued)
 - 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

 Describe source and estimated extent of soil contamination determined in initial investigations (e.g., site check, UST system closure), referencing maps and crosssections 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, UST #002, and UST #003.

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 P7-1 through P7-8 (shown in Figure 2) were collected from the excavation bottom beneath UST #001, UST #002, and UST #003, on August 17, 2010 at a depth of 7 feet below ground surface. In addition, closure soil samples were collected from beneath the former product piping associated with UST #001 and UST #003, as shown in Figure 2. 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. Confirmation soil samples SB7-4A, SB7-7A, and SB7-8A were collected on September 16, 2010 from the same locations as closure soil samples P7-4, P7-7, and P7-8, respectively (see Figure 2). Analytical results for the confirmation soil samples are presented in Table 3 and Appendix VIII.

Parcel #7 is vacant, as shown in Photograph 1 of Appendix IX. 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.

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

A pit 17 feet wide by 20 feet long by 7 feet deep remained following the removal of UST #001, UST #002, and UST #003, 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 the UST excavation. A remote-controlled vibratory roller was used to compact the backfilled material in the excavation to 95% Proctor. The backfill compaction report is provided in Appendix X. Photographs of the UST removals and compaction are provided in Appendix IX.

- Describe field screening, including:
 - Physical characteristics of soil samples, as observed during collection;

All soil samples consisted of brown, friable, micaseous, silty, clayey fill material (see Figure 2).

- Field instrumentation used to screen soils;

The samples were screened with a MiniRAE2000 PID.

- 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 eight UST closure samples (P7-1 through P7-8). All eight samples had readings of 0.0 ppm.

• Indicate the final dimensions of the excavation.

17 feet wide by 20 feet long by 7 feet deep

- 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)
 - 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 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, UST #002, and UST #003. 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.

- 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 P7-1 through P7-8, as well as confirmation soil samples SB7-4A, SB7-7A, and SB7-8A, are shown in Figure 2. Soil samples P7-1 through P7-4 were collected as grab samples from the trackhoe bucket, using Encore samplers to collect samples for GRO analysis. Soil samples P7-7 and P7-8 were collected as in-situ grab samples from a depth of approximately 1 foot beneath the respective product piping, using Encore samplers to collect samples for GRO analysis.

Confirmation soil samples SB7-4A, SB7-7A, and SB7-8A were collected as grab samples from DPT cores that were obtained from a depth of 7 to 8 feet for SB7-4A, and from a depth of 2 to 3 feet below ground surface for SB7-7A and SB7-8A. Encore samplers were used to collect the soil samples from the DPT cores for VOC and VPH analysis. Sampling protocol is described in Appendix V.

- 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 (continued):
 - 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, UST #2, and UST #003.

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 P7-1 through P7-8 did not indicate that impacted soil remained, so excavation was stopped following removal of UST #001, UST #002, and UST #003.

- 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 friable, micaseous, silty, clayey fill material (see Figure 2).

- Type of samples;

Soil samples P7-1 through P7-6 were grab samples collected from the bottom of the UST excavation, and soil samples P7-7 and P7-8 were collected as grab samples from beneath the former product piping, as shown in Figure 2.

- Sample collection procedures;

Soil samples P7-1 through P7-6 were collected as grab samples from the trackhoe bucket, using Encore samplers to collect samples for GRO analysis. Soil samples P7-7 and P7-8 were collected as in-situ grab samples from a depth of approximately 1 foot beneath the respective product piping, using Encore samplers to collect samples for GRO analysis.

- 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)
 - Sample collection procedures (continued);

Confirmation soil samples SB7-4A, SB7-7A, and SB7-8A were collected as grab samples from DPT cores that were obtained from a depth of 7 to 8 feet for SB7-4A, and from a depth of 2 to 3 feet below ground surface for SB7-7A and SB7-8A. Encore samplers were used to collect the soil samples from the DPT cores 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 (7 feet below ground surface for soil samples P7-1 through P7-6, and 2 feet below ground surface for soil samples P7-7 and P7-8) are shown in Figure 2.

- Time/date collected;

Closure soil samples P7-1 through P7-8 were collected on August 17, 2010. Confirmation soil samples SB7-4A, SB7-7A, and SB7-8A were 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 P7-1 through P7-8, and SB7-4A, SB7-7A, and SB7-8A, as shown in Figure 2.

- 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 P7-1 through P7-8 were analyzed for gasoline range organics (GRO) and diesel range organics (DRO) by EPA Method 8015. Confirmation soil samples SB7-4A, SB7-7A, and SB7-8A were analyzed for volatile petroleum hydrocarbons (VPH) by the MADEP Method and volatile organic compounds (VOCs) by EPA Method 8260B.

- 4. Document soil investigation (continued).
 - Document quality-control measures information, including:
 - Sample handling procedures including sample preservation techniques and sample transport procedures;

Sample handling procedures are described in Appendix V. 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 P7-1 through P7-8 were submitted to the laboratory at 3:15 PM on August 20, 2010. Confirmation soil samples SB7-4A, SB7-7A, and SB7-8A were 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.

- 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.

None of the confirmation soil samples (SB7-4A, SB7-7A, and SB7-8A) exceeded established MSCC soil standards.

- 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 to 95% Proctor by the subcontractor.

- 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 (P7-1 through P7-6) were collected as grab samples from undisturbed soil obtained from the bottom of the UST excavation using the trackhoe bucket. Product piping closure samples (P7-7 and P7-8) were collected in-situ from a depth of 1 foot below the former product piping. Confirmation soil samples SB7-4A, SB7-7A, and SB7-8A were collected as grab samples from DPT cores that were obtained from the same depths and locations as closure samples P7-4, P7-7, and P7-8, respectively.

Indicate if excavation ceased on encountering groundwater or bedrock;

No groundwater or bedrock was encountered during the excavation process.

- 6. Present conclusions, as follows (continued):
 - 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 samples SB7-4A, SB7-7A, and SB7-8A, no soil in exceedance of established MSCCs 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. No constituents were detected in any of the confirmation soil samples (SB7-4A, SB7-7A, and SB7-8A) at levels equal to or exceeding MSCCs. 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.

J. Figures (continued)

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 eight UST closure samples (P7-1 through P7-8). All eight samples had readings of 0.0 ppm. Therefore, no table has been included.

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.

K. Tables (continued)

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.

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.

L. Appendices (continued)

K. Photographs

Attached as Appendix IX.

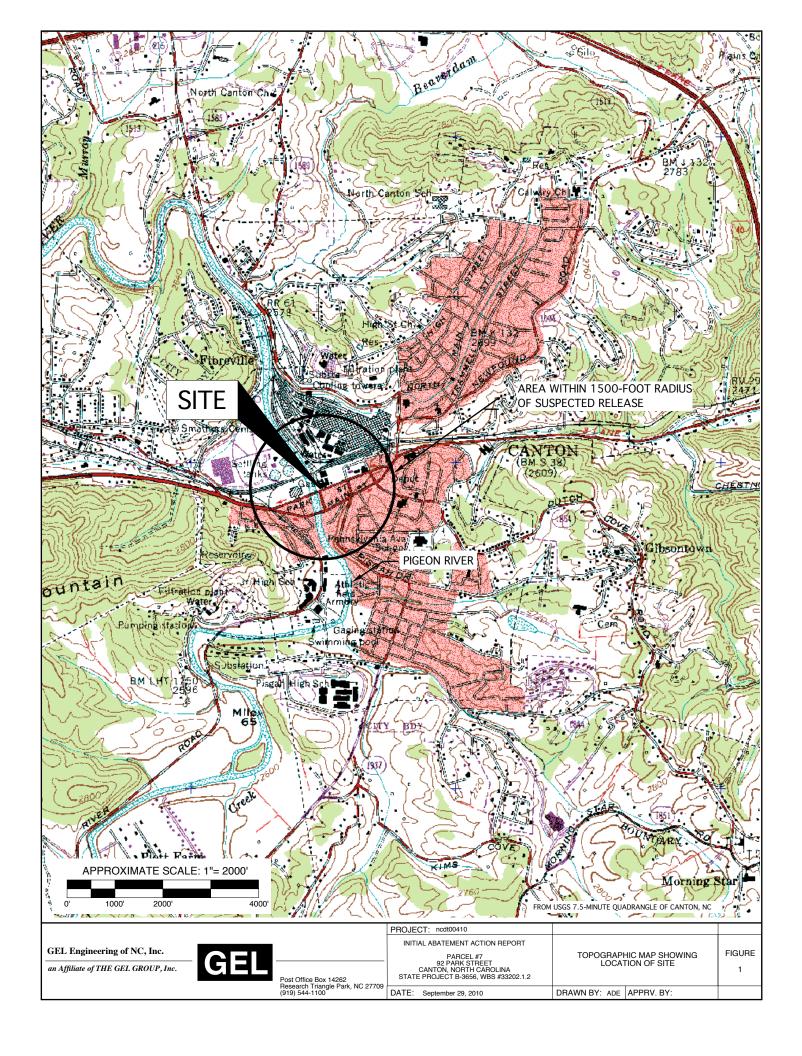
L. Geologic logs for excavation(s)/borings

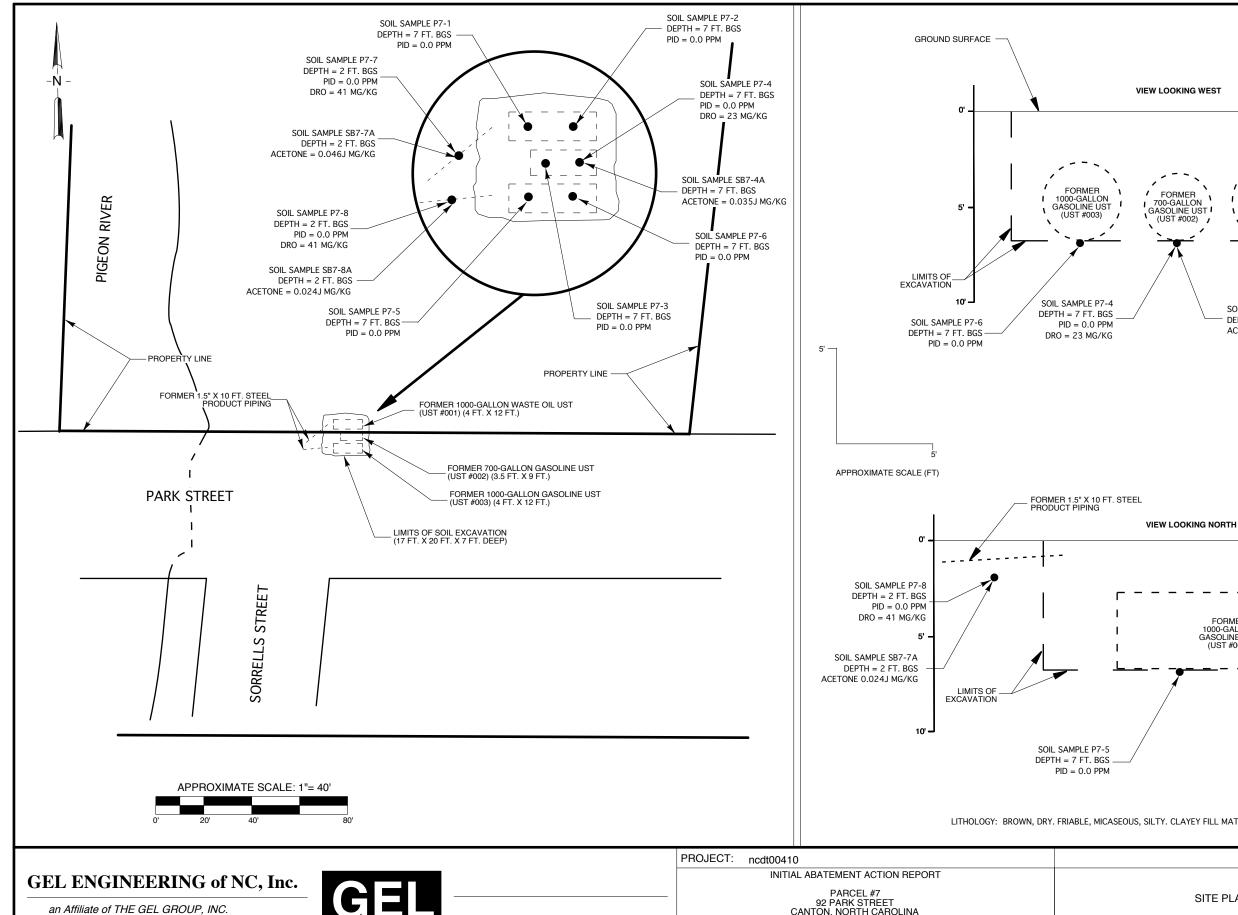
No borings were constructed. Description of excavation lithology is provided on Figure 2 of this report

M. Monitoring well construction forms

Not applicable.







(919) 544-1100

PID = 0.0 PPMLITHOLOGY: BROWN, DRY. FRIABLE, MICASEOUS, SILTY. CLAYEY FILL MATERIAL WITH DEBRIS **FIGURE** PARCEL #7 92 PARK STREET CANTON, NORTH CAROLINA STATE PROJECT B-3656, WBS #33202.1.2 SITE PLAN 2 P.O. BOX 14262 RESEARCH TRIANGLE PARK, NC 27709 DATE: October 4, 2010 APPRV. BY: DRAWN BY: ADE

FORMER

SOIL SAMPLE SB7-4A

ACETONE = 0.035J MG/KG

SOIL SAMPLE P7-2

DEPTH = 7 FT. BGS PID = 0.0 PPM

GROUND SURFACE

SOIL SAMPLE P7-6 DEPTH = 7 FT. BGS

DEPTH = 7 FT. BGS

FORMER 1000-GALLON GASOLINE UST (UST #003)

1000-GALLON GASOLINE UST

(UST #001)

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)

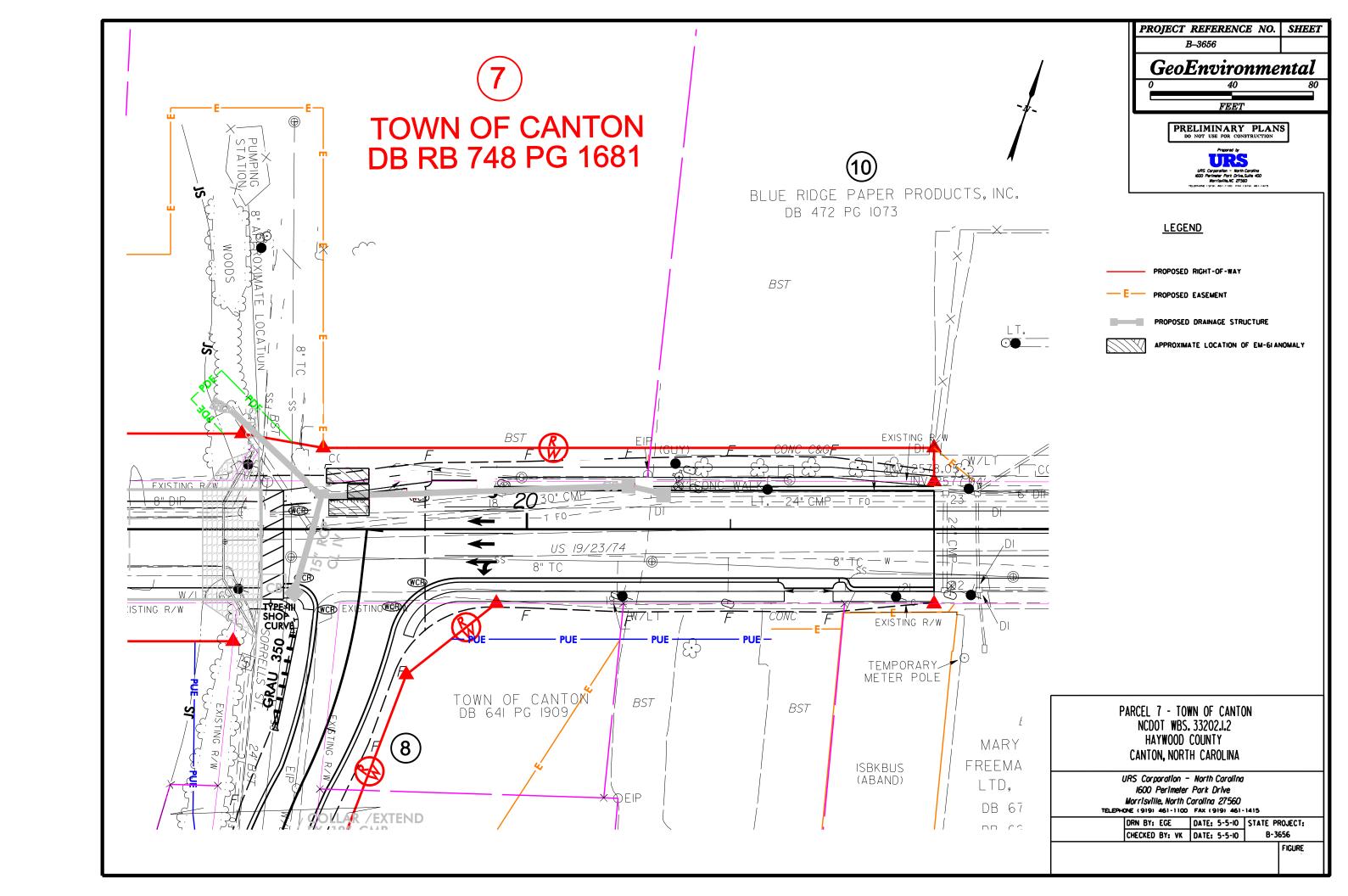




TABLE 1

Site History

 ${\bf Table~B-1:~Site~History-UST/AST~System~and~Other~Release_Information}$

Revision Date: NA Incident Number and Name: 92 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 | 1000 | Steel, Single-walled | 4' x 12' | 1.5" x 10' prod. piping | Not Known | Closed (Removed on 8/17/10) | NA |
| 002 | Gasoline | Gasoline | 700 | Steel, Single-walled | 3.5' x 9' | None Observed | Not Known | Closed (Removed on 8/17/10) | NA |

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 | N/A | N/A | One of two closure soil samples for UST #002 and closure samples for product piping sections formerly connected to UST #001 and UST #003 indicated slightly elevated TPH levels. However, |
| | | | confirmation soil samples did not confirm that there had been a release(s). |

Add additional records as necessary

76 Change 1

^{*} 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-1: Site History – UST/AST System and Other Release_Information

Revision Date: NA Incident Number and Name: 92 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? |
|------------------|----------------------------|------------------------|-----------------------|----------------------------|--------------------|---|------------------------|-----------------------------------|--|
| 003 | Gasoline | Gasoline | 1000 | Steel, Single-walled | 4' x 12' | 1.5" x 10' prod. piping | Not Known | Closed (Removed on 8/17/10) | NA |
| | | | | | | | | , | |

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 | NA | N/A | Closure sample for product piping section formerly connected to UST #003 indicated slightly elevated TPH level. However, confirmation soil sample did not confirm that there had been |
| | | | a release. |

Add additional records as necessary

76 Change 1

^{*} 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: 92 Park Street, Canton, NC

| UST ID Number | N/A | | Facility ID Nu | ımber | N/A | | | | |
|--------------------|----------------|------------|----------------------------|------------|---|--|--|--|--|
| Name of Owner | Name of Owner | | | | Dates of Operation (mm/dd/yy to mm/dd/yy) | | | | |
| Abandoned in prop | osed NCDOT riç | ght-of-way | | Not kno | own | | | | |
| Street Address | | | - | | | | | | |
| Not known | | | | | | | | | |
| City | State | Zip | Telepho | one Number | | | | | |
| Not known | | | | Not known | | | | | |
| Name of Operator | | | Dates of Oper (mm/dd/yy to | yy) | | | | | |
| Not known | | | Not known | | | | | | |
| Street Address | | | - | | | | | | |
| Not known | | | | | | | | | |
| City | | State | Zip | Telepho | one Number | | | | |
| Not known | | | | | Not known | | | | |
| Incident Number | N/A | | | | | | | | |
| Name of Other Resp | onsible Party | | Dates of Relea | | yy) | | | | |
| | N/A | | | N/A | | | | | |
| Street Address | | | | | | | | | |
| | N/A | | | | | | | | |
| City | State | Zip | Telepho | one Number | | | | | |
| N/A | | | | | N/A | | | | |

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

77

Change 1

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: 92 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 | e 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 kno | wn well at 92 Park Street, | and no kno | wn wells | in neight | orhood) | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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 Incide | nt No. and Name: NA Facility ID#: NA |
|---------------------------------|--|--------------------------------------|
| Tax Parcel Number/ Map ID | Owner/ Occupant Name (Last, First MI) | Address |
| | Owner: Town of Canton (site is vacant) | Owner addreess is unknown |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

TABLE 3 Summary of Soil Sampling Results

Table B-3: Summary of Soil Sampling Results

| | Date: N | | | | me: 92 Park Street, Canton, NC | | | | | | | Facility ID#: | | |
|---|----------------------------------|--|-----------------------------|---|--------------------------------|--|--|--|--|--|--|---------------|--|--|
| Analytical Method (e.g., VOC by EPA 8260) → | | | | | | | | | | | | | | |
| Contaminant of Concern → | | | | | | | | | | | | | | |
| Sample ID | Date Collected (m/dd/yy) | Source Area (eg. Tank pit 1) | Sample Depth (ft BGS) | Incident Phase (Closure , 20Day, LSA, etc.) | DRO | | | | | | | | | |
| P7-1 | 8/17/10 | Pit Bottom | 7 | Closure | < 9.7 | | | | | | | | | |
| P7-2 | 8/17/10 | Pit Bottom | 7 | Closure | < 9.7 | | | | | | | | | |
| P7-3 | 8/17/10 | Pit Bottom | 7 | Closure | < 9.6 | | | | | | | | | |
| P7-4 | 8/17/10 | Pit Bottom | 7 | Closure | 23 | | | | | | | | | |
| P7-5 | 8/17/10 | Pit Bottom | 7 | Closure | < 9.9 | | | | | | | | | |
| Soil to gr | Soil to groundwater MSCC (mg/kg) | | | None | | | | | | | | | | |
| Residential MSCC (mg/kg) | | | None | | | | | | | | | | | |
| Industrial/Commercial MSCC (mg/kg) | | | | | None | | | | | | | | | |

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

Table B-3: Summary of Soil Sampling Results

| | Date: N | | | | me: 92 Park Street, Canton, NC | | | | | | | Facility ID#: | | |
|---|----------------------------------|--|-----------------------------|---|--------------------------------|--|--|--|--|--|--|---------------|--|--|
| Analytical Method (e.g., VOC by EPA 8260) → | | | | | | | | | | | | | | |
| Contaminant of Concern → | | | | | | | | | | | | | | |
| Sample ID | Date Collected (m/dd/yy) | Source Area (eg. Tank pit 1) | Sample Depth (ft BGS) | Incident Phase (Closure , 20Day, LSA, etc.) | DRO | | | | | | | | | |
| P7-6 | 8/17/10 | Pit Bottom | 7 | Closure | < 9.9 | | | | | | | | | |
| P7-7 | 8/17/10 | Beneath Piping | 2 | Closure | 41 | | | | | | | | | |
| P7-8 | 8/17/10 | Beneath Piping | 2 | Closure | 41 | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Soil to gr | Soil to groundwater MSCC (mg/kg) | | | None | | | | | | | | | | |
| Residential MSCC (mg/kg) | | | None | | | | | | | | | | | |
| Industrial/Commercial MSCC (mg/kg) | | | | | None | | | | | | | | | |

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

Table B-3: Summary of Soil Sampling Results

| Revision | Date: N | A Incide | nt Numbe | er and Nan | ne: 92 Park Street, Canton, NC | | | | | | | Facility ID#: | | |
|--|--------------------------------|--|-----------------------------|--|--------------------------------|--|--|--|--|--|--|---------------|--|--|
| Analytical Method (e.g., VOC by EPA 8260) → Contaminant of Concern | | | | | EPA 8260 | | | | | | | | | |
| | | | | | W | | | | | | | | | |
| Sample ID | Date Collected (m/dd/yy) | Source Area (eg. Tank pit 1) | Sample Depth (ft BGS) | Incident Phase (Closure , 20Day, LSA, etc.) | ACETONE | | | | | | | | | |
| SB7-4A | 9/16/10 | Pit Bottom | 7 | Closure | 0.035J | | | | | | | | | |
| SB7-7A | 9/16/10 | Beneath Piping | 2 | Closure | 0.046J | | | | | | | | | |
| SB7-8A | 9/16/10 | Beneath Piping | 2 | Closure | 0.024J | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Soil to gr | oundwater | MSCC (m | ig/kg) | | 24 | | | | | | | | | |
| Residential MSCC (mg/kg) | | | | | 14,000 | | | | | | | | | |
| Industrial/Commercial MSCC (mg/kg) | | | | | 360,000 | | | | | | | | | |

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



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 scrap metal. This is dangerous work and must be performed by a qualified company.

| disposed of illega | ally in fields or other dump | sites can leak petroleum of any environmental da | products and | sludge into the | environment. If your t | anks are d | isposed of improperly, you | | | |
|--|---|---|--|---|----------------------------------|--|---|--|--|--|
| | I. OWNERSHIP O | FTANKS | | | II. LOCA | ATION | | | | |
| Owner Name (Co | orporation, Individual, Pub Shan tanks - Unknow | lic Agency, or Other Ent | tity) F | acility Name or | Company Town o | f Canton | Property | | | |
| Street Address | | | F | Facility ID # (If known) | | | | | | |
| City | (| County | S | treet Address | 90 - 92 Park S | treet | | | | |
| State | Ž | Zip Code | С | ity Canto | Coun | ty Haywo | Zip Code ood 28716 | | | |
| Phone Number | | | P | Phone Number | | | | | | |
| | | III. | CONTACT P | ERSONNEL | Distance in the Charles | | | | | |
| Name: Cheryl | Youngblood | ompany Name: NCD | | Job Title | Sr. Proj. Engine | er | Phone Number: 919-250-4088 | | | |
| | IV. | TANK REMOVAL, C | LOSURE IN | PLACE, CHA | NGE-IN SERVICE | | | | | |
| Plan entire of Conduct Sit If removing | al fire marshal. closure event. e Soil Assessment. tanks or closing in place, ation 2015 Cleaning Pe | soil sam 6. Submit UST-12 refer to thirty | a closure rep (including the (30) days | ing piping, tank ort in the form form UST-2) following the | nat of and sea not occ seal of a | nent repor I of the P.E urred, the a P.E. or L. | with all closure site ts bearing the signature or L.G. If a release has supervision, signature or G. is not required. | | | |
| Storage Ta | anks and 1604 Remov f Used Underground Pe | al and 7. If a release troleum site ass | ase from the ta essment portic | nks has occurre on of the tank o der the supervis | losure | | 3 55 | | | |
| | | V. WO | | ERFORMED E | | | | | | |
| Contractor Name | e: Brian Bauer | | Contrac | ctor Company N | Mountain E | | ental Group | | | |
| Address: | 60 Pisgah Drive, Car | nton | State: | State: Zip Code: Phone No: 828-648-5 | | | | | | |
| Primary Consulta | Andrew Eye | er l | | Company Name GEL Engine | ering of NC, Inc. | 91 | sultant Phone No: 19-323-8828 | | | |
| | VI. | TANKS SCHEDULE | D FOR CLOS | URE OR CHA | NGE-IN-SERVICE | 1 4 17 7 | | | | |
| | | | | | Closure | ed Activity | Change-In-Service | | | |
| Tank ID No. | Size in Gallons | Last Conte | nts | Removal | Abandonment in Place | • | New Contents Stored | | | |
| 1 | 8,000 (assumed) | Gasoline (as | sumed) | X | | | | | | |
| 2 | 5,000 (assumed) | Gasoline (ass | sumed) | X | | | | | | |
| 3 | 8,000 (assumed) | Gasoline (ass | sumed) | X | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| * Prior written ap | proval to abandon a tank | in place must be receive | ed from a DWM | Regional Office | PRESENTATIVE | | | | | |
| I understand that | t I can be held responsible | | | | | 3. | | | | |
| Print name and | official title: Andrew D. | Eyer of GEL Engir | neering of N | C, Inc. for No | CDOT | | | | | |
| Signature | -34 | | Date Signed | | D REMOVAL DATE | 48 hours | ur DWM Regional Office before this date if ed removal date changes | | | |

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.

UST-2 Rev 11/2006

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 ass | sessment port | ion o | of the tank clos | sure must | be condu | cted unde | r the su | pervision of | a P.E. or |
|---|-------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|-------------------------------|-----------------------------------|----------------------------|-----------------------------|-----------------------------|-------------------|---|-----------------------------|
| L.G., WI | n all closure | ite assessmen | | 270 | ure and sear d | or trie | P.E. Of L.G. | П | OCATIO | N OF TA | NKS | | |
| Owner N | lame (Corpo Unkno | ration, Individua | I, Public Agen | | Entity) | Fac | cility Name or | | Vacant | | INCO | | |
| Street A | ddress | nown | 00.0, | | | Facility ID # (If known) NA | | | | | | | |
| City | Unknown | | Cour | ^{nty} Unkn | own | Street Address 92 Park Street | | | | | | | |
| State | Unknov | wn | Zip C | ^{Code} Unkr | nown | Cit | y Canton | | Zip Code 28716 | | | | |
| Phone N | ^{lumber} Ur | ıknown | | | | Ph | one Number | NA | | | | | |
| | | | | | . CONTACT | | | | PONTA | | | | Block T |
| Contact | for Facility: Cheryl | Youngblood, | NCDOT G | eotech En | gineering U | nit | Job Title: GeoEr | | | | | Phone. No: 919-250- | 4088 |
| Closure | Contractor N Bria | _{ame:} n Bauer | | Contractor Co E nvironme | | | Address: 1569 Pisg | ah Dr., C | anton, I | NC 2871 | 6 F | Phone. No: 828-648- | 5556 |
| Primary Consultant Name: Primary Consultant Company: GEL Engineering of NC, | | | | | | | Address: P.O. Box | | | | F | Phone. No: 919-323- | 8828 |
| | IV. UST | INFORMATI | ON FOR RE | GISTERED | UST SYSTE | EMS | | | V. EX | CAVATION | ON CO | NDITION | |
| Tank ID No. | Size in Gallons | Tank Dimensions | Last Contents | Last Use Date | Permane Close Da | | Change-in- Service | Wat excav | ation | pro | ree duct | soil cont | lor or visible amination |
| ID NO. | Galloris | Dimensions | Contents | Date | Olose Da | 16 | Date | Yes | No | Yes | No | Yes | No |
| | | | | | | - | | | | | | + $ -$ | |
| | | | | | | \dashv | | | -H | | | + $+$ | 片 |
| | | | | | | | | | \exists | \vdash | ΗH | | П |
| | | | | | | | | | | | | | |
| | VI. UST I | NFORMATIO | N FOR UNR | EGISTERE | D UST SYS | TEN | IS | | VII. EX | CAVATI | ON CO | NDITION | |
| Tank ID No. | Size in Gallons | Tank Dimensions | Last Contents | Last Use Date | Permanent Close Date | | Tank Owner Name * | Wat excav Yes | er in vation No | | ree duct No | Notable odor or visib soil contamination Yes No | |
| 001 | 1000 | 4' x 12' | Gasoline | Unknown | 08/17/10 | | Unknown | | X | | X | | X |
| 002 | 700 | 3.5' x 9' | Gasoline | Unknown | 08/17/10 | | Unknown | | X | | X | | X |
| 003 | 1000 | 4' x 12' | Gasoline | Unknown | 08/17/10 | | Unknown | | X | | X | | X |
| | | | | | | - | | | | | | + $-$ | |
| | | | | | | | | | Ш | | | | |
| * If the ta | ank owner ac | ldress is differe | nt from the one | e listed in Sec | tion I., then e | nter | the street addr | ress, city, s | tate, zip c | ode and te | elephon | e no. below: | |
| VIII. CI | ERTIFICAT | ION | | | | | | | | | | | |
| I certify of based or complete | n my inquiry | of law that I hat of those individ | ave personally uals immediate | examined an ely responsibl | d am familiar e for obtaining | with g the | the information information, I | n submitted believe tha | d in this ar at the subr | nd all attac mitted info | hed doormation | cuments and is true accur | that ate and |
| Print nar | me and offici | al title of owner | or owner's aut | | DO T | S | ignature | 2 | in- | _ | | Date Signe | ed o |

APPENDIX III

Site Specific Health and Safety Plan (HASP)

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

Redsian Bate: June 1,2005

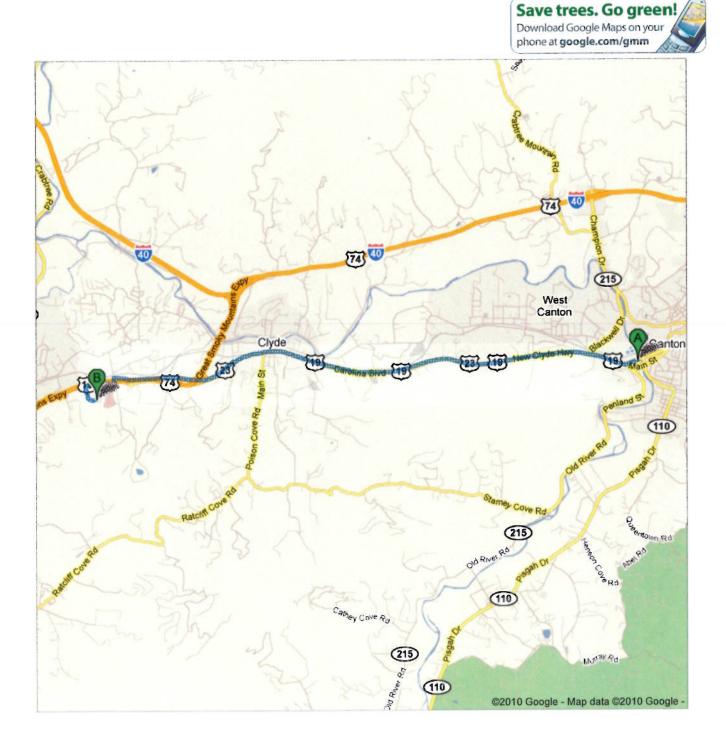
| Project Code: ncdt00 | 0410 | | -0, | | | | |
|---------------------------|---|--|--|--------------|--|--|--|
| Project Description:_ | Oversight of U | JST closures + soil sampling | 3 | | | | |
| Project Manager: | Andrew Eyer | Extension: | Pager/Cell: | 919-210-3658 | | | |
| | | | | | | | |
| HAZARDS LIKELY | TO BE ENCO | UNTERED: | | | | | |
| Expected Contamina | nt at Site: | Petroleum | | | | | |
| Electrocution/Sho | ock | Toxic Atmosphere | x_Pinch Poi | nts | | | |
| x_Slip/Trip/Fall | | x_Excavation | Flying Debris | | | | |
| Manual Lifting | | Confined Space | x_Vehicle T | | | | |
| x Rough/Sharp M | aterial | x_Noise | Railway Ti | | | | |
| x Rotating/Movin | g Machinery | Flammable Materials | | | | | |
| Hot Surfaces/Ste | am Cleaner | x_Chemicals | x_Heat/Cold | i | | | |
| Overhead Hazard | l | Insects | | | | | |
| Do not enter | on s quipment ection ETY MEASUR excavations dee | Work O x_Chemic x_Protect x_Traffic OVA/4- Buddy S Other | cal Resistant Gleive Clothing Control Measur Gas Meter System | res | | | |
| <u> </u> | or to operator it | 5 corporate 111 tor | 100 | | | | |
| | | CAL ASSISTANCE: ATT Center, 262 Leroy George I | | | | | |
| LOCATED? Yes No Phone No | XXERATING UND | ST-AID FACILITY AND E | | | | | |

| 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? YesNA No |
|--|
| IF YES, ARE ALL GEE/GEG PERSONNEL PROPERLY TRAINED FOR THE SAFETY HAZARDS OF THIS WORK? YesNA 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: 8/10/10 Date: |
| Date: |
| Date: |
| Date: |



Directions to 262 Leroy George Dr, Clyde, NC 28721

6.2 mi - about 9 mins





101 Park St, Canton, NC 28716

| 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 |
|--|---------------------------|
| 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

Map data ©2010 Google

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



TANK DISPOSAL MANIFEST

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

Tank Location and Owner/Authorized Representative Certification: Tank Location: Tank Owner or Tank Owner or
Authorized Representative: WOREWCYER Physical Address: Phone No: The undersigned certifies that the tanks listed on this manifest have been removed from the premises of the tank owner. **Description of Tanks:** Tank No. Capacity **Previous Contents** Comments 001 002 003 **Transporters:** The undersigned transporters certify that the above listed tanks have been transported to: The metal recycling facility listed below under Disposal Certification Mountain Environmental Services, Inc., 1560 Pisgah Drive, Canton, NC 28716 Matthew Ble Signature: Printed Name: Signature: Date: **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". latthew Blackbern Signature **Disposal Certification:** The undersigned certifies that the cleaned and demolished tanks listed above have +accepted by the metal recycling facility. Recycling Facility:

Signature

APPENDIX V

Standard Procedures

Field Procedures for Soil Screening and Sampling

UST Closure Soil Samples and Confirmation Soil Samples 92 Park Street Canton, North Carolina August 17, 2010 and September 16, 2010

Following the removal of UST #001, UST #002, and UST #003 on August 17, 2010, soil samples P7-1 through P7-8 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.

Following the removal of the sections of product piping formerly connected to UST #001 and UST #003, in-situ soil samples P7-8 and P7-7, respectively, were collected from a depth of approximately 1 foot beneath the piping (i.e., 2 feet below ground surface). Encore samplers were used to collect in-situ soil samples for analysis of GRO. The soil samples were transferred to new sample containers and placed in a cooler with ice. All collected closure soil samples were kept on ice until submittal to the laboratory.

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 samples SB7-4A, SB7-7A, and SB7-8A were collected on September 16, 2010 using a decontaminated AMS direct push technology (DPT) rig. For confirmation sample SB7-4A, the 1.5-inch diameter DPT probe was advanced to a depth of 7 feet below ground surface at the location where closure sample P7-4 had been collected on August 17, 2010. A new acetate core barrel was then inserted into the DPT probe, and soil was collected from 7 feet to 8 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 SB7-7A 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.

For confirmation samples SB7-7A and SB7-8A, the DPT probe was advanced to a depth of 2 feet at each of the respective locations where closure samples P7-7 and P7-8 had been collected on August 17, 2010. A new acetate core barrel was then inserted into the DPT probe, and soil was collected from 2 feet to 3 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 SB7-7A and SB7-8A from their respective cores, transferred into new prepreserved sample containers, and placed in a cooler with ice. All collected confirmation soil samples were kept on ice until submittal to the laboratory.

APPENDIX VI

Manifests

| | 1 | NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number 2. Page 1 | of 3. Emergency Response Phone 1-800-761-6031 4. Waste Tracking Number NCDOT-MTN-1 |
|-----|-------------|--|--|
| | | 5. Generator's Name and Mailing Address | Generator's Site Address (if different than mailing address) |
| | | Geotech Enginee | vice Center, Raleigh, NC 27699 U.S. EPA ID Number |
| | | Generator's Phone: 6. Transporter 1 Company Name | vice Conter, Raleigh, NC 27699 |
| | | Mountain Environ | mistal |
| | | 7. Transporter 2 Company Name | U.S. EPA ID Number |
| | | 8. Designated Facility Name and Site Address Mountain | invisor mental U.S. EPA ID Number |
| | | Facility's Phone: (828)6485556 | Prisoch Dr. |
| | | 9. Waste Shipping Name and Description | 10. Containers 11. Total 12. Unit |
| | 2 / | 1 No O and I de la Marcha Marc | No. Type Quantity Wt./Vol. |
| | GENERATOR | N. D. S. (petroleum / petroleum impact | 1 001 VT 1412 901 |
| | | 2. | WWW. HO |
| | | | |
| | 1000 | 3. | |
| | | | |
| | | 4. | |
| | | 13. Special Handling Instructions and Additional Information | 2" · |
| | | | κ. |
| | | | |
| | | 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment | nt 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 applic Generator's/Offeror's Printed/Typed Name | sable international and national governmental regulations. Signature Month Day Year |
| | 1 | 15. International Shipments | - 18/17/10 |
| 100 | IN I | Transporter Signature (for exports only): | m U.S. Port of entry/exit: Date leaving U.S.: |
| | IMANSPORIER | 16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name | Signattrye / Month Day Year |
| | NSPO | Transporter 2 Printed/Typed Name | Signature Month Day Year |
| | - 12 | | |
| | 1 | 17. Discrepancy 17a. Discrepancy Indication Space Quantity Type | Residue Partial Rejection Full Rejection |
| | | | Manifest Reference Number: |
| | FACILITY | 17b. Alternate Facility (or Generator) | U.S. EPA ID Number |
| | LAC | Facility's Phone: | |
| | NAIE | 17c. Signature of Alternate Facility (or Generator) | Month Day Year |
| | DESIGNALED | | |
| | | 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest ex | cent as noted in Item 17a |
| , | | Printed/Typed Name | Signature Month Day Year |
| | V | 1 Nintflew Blackberry | 1000 18 17 10 |

| A | NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number 2. Page 1 of 3. Emerg | ency Response Phone Op. 261-0031 4. Waste Tracking Number NC VOT-MTN-2 |
|-------------|---|---|
| | 5. Generator's Name and Mailing Address NC VOT Generator | 's Site Address (if different than mailing address) |
| | Geotech Engineerin Unit | 0 17 |
| | Generator's Phone: 1589 Mail Service Center, Raleigh | NC 21699 |
| | 6. Transporter 1 Company Name Mountain Environmen | U.S. EPA ID Number |
| | 7. Transporter 2 Company Name | U.S. EPA ID Number |
| | 8. Designated Facility Name and Site Address Mountain Envisor | U.S. EPA ID Number |
| | 8. Designated Facility Name and Site Address Mountain Environ 1560 Planch 0 | |
| | Facility's Phone: | 16 28714 |
| | 9. Waste Shipping Name and Description | 10. Containers |
| R | 1. Nonregulated wiste, Ninhazordous, N.O.S. | |
| GENERATOR | 1. Nonregulated wiste, Ninhazordous, N.O.S, (Petroleum woste/tank cleaning) | 601 MD 250 P |
| GEN | 2. | |
| | | |
| | 3. | |
| | | |
| | 4. | |
| | 40. Operiod the distribution and Additional Leftware No. | |
| | 13. Special Handling Instructions and Additional Information | W |
| | | |
| | | |
| | 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and parked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international contents. | accurately described above by the proper shipping name, and are classified, packaged, |
| | Generator's/Offeror's Printed/Typed Name Signature | Month Day Year |
| <u> </u> | 15. International Shipments | 18 17 10 |
| INT | Transporter Signature (for exports only): | Port of entry/exit: |
| TER | 16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature | Month Day Year |
| SPOF | Mathew Blackban | Whos Olable 18 17 10 |
| TRANSPORTER | Transporter 2 Printed/Typed Name Signature | Month Day Year |
| A | 17. Discrepancy | |
| | 17a. Discrepancy Indication Space Quantity Type | Residue Partial Rejection Full Rejection |
| | | est Reference Number: |
| FACILITY | The Allemate Facility (of Generator) | U.S. EPA ID Number |
| D FA | Facility's Phone: 17c. Signature of Alternate Facility (or Generator) | Month Day Year |
| NATE | The signal of maintain acting (of actional) | world bay rear |
| DESIGNATED | | |
| Ī | | |
| | 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted Printed/Typed Name Signature/ | |
| * | Matthew Blackburn | tither been 18 17 10 |

APPENDIX VII

Chain-of-Custody Records



| | | | | CHAI | N O | | STODY | DE | COE | D M | | | LAB USE (| NU V | | |
|--|-------------------|--|---------------------------------|---|---------------------------|---|--|--|-----------------|------------|--------------------------|--------------|--------------------------------|-----------------------|---------------|-------------------|
| /DDIC | | III-Service Analy | ytical & | | . 1 | | URE PROPER BILLI | | | | | | | ΥĮĮ | s NO | N/A |
| LABORAT | ORIES, INC. | vironmental So | | | | | | | | 58225854 | imples IN received Of | I ACT upo | n arrival? E? Temp <u> </u> | 1 🕏 | | |
| 449 Springbrook Road • P | .O. Box 240543 | • Charlotte, NC 2 | 8224-0543 | Project Name Short Hold An | : <u>ללן ש</u> alvsis: | (Yes) <i>(</i> 17 | <u>2 ,1, Z, T1</u> | roiect: | Yes) | No) PF | ROPER PI | RESERVA | ATIVES indicated | i? \(\frac{1}{\chi}\) | 7 7 | |
| Phone: 704/529-6364 • Facilient Company Name: | ax: 704/525-0409 | Fun n= h | 10 | *Please ATTA | CH any | oroject spe | cific reporting (0 | | | vo Re | ceived W JSTODY 9 | THE WAY | LDING TIMES? | | <u> </u> | - |
| Report To/Contact Nar | ne: ANT | SREW EXI | | provisions and/or QC Requirements Invoice To: NCDOT GENTECH ENG. UNIT | | | | | | | | | DUT HEADSPAC | DE? | | <u>-</u> 🛣 |
| Reporting Address: 🔟 | P.O. Bax | 14762 | | Invoice To: Address: | | | L SERVIC | | | PF | ROPER C | ONTAINE | RS used? | | , = | - 3-2 |
| DURILA | m, NC | 27709 | | Audress | | | NC Z | 769 | 9 | | State Charles | | | | | 1 Danie graf 13 f |
| Phone: 919-323-8 | Fax (Yes |) ((6): | <u> </u> | Purchase Ord | er No./E | illing Refer | ence | | | ТО ВЕ | FILLE | O IN BY | CLIENT/SA | MPLING | PERSO | |
| mail (Yes) (No) Email | Address_ <u>C</u> | oe @ gei | . com | • | Date □1 | Day 2 Da | ys 3 Days 14 | Days 🗆 | 5 Days | Certifi | cation: | NELA | CUSAC | EF | L | NC_V |
| EDD Type: PDFEx Site Location Name: _ | 232849 | • 7 | | "Working Days' | ' □ 6 d after 15: | -9 Days oy∕ St 00 will be pro | andard 10 days 🔲 | Pre-Appro | ved | | | | OTHER _ | | /A | |
| Site Location Physical | Address: 92 | 2 PARK S | Τ, | Turnaround time | is based | on business d | ays, excluding weel | kends and | d holidays. | 1 | | | res no_ | | | |
| 5,10 20 5 11 11 11 11 11 11 11 11 11 11 11 11 1 | CA | MIGHTER , A | 1 C | | | | ITIONS REGARDING S IES, INC. TO CLIENT) | | | | | | ollection: YE | S V NC | <u> </u> | |
| | | TIME | MATRIX | SAMPL | E CONTA | INER | | / | Α | NALYSES RE | QUESTE | D / | , . | | 41 | PRISM |
| CLIENT SAMPLE DESCRIPTION | DATE COLLECTED | COLLECTED MILITARY | (SOIL, WATER OR | | | 0175 | PRESERVA- TIVES | / | 20/05 |)/// | | | REI | MARKS | | LAB ID NO. |
| | 1 1 | HOURS | SLUDGE) | SEE BELOW | NO. | SIZE | | / 41 | 104 | | | \leftarrow | | | | · |
| P7-1 | 8/17/10 | 1317 | SOIL | 9,0 | 3 | | (gre) METHOOL | | 1 | | | | | | | 01 |
| P7-2 | ' / | 1320 | | / | | | | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | | | | | | | | 02 |
| P7-3 | | 1330 | | | 1 | | | · | ~~ | | | | | | | 63 |
| P7-4 | | 1333 | | | | | | | - i | | | | | | | 04 |
| P7-5 | | 1355 | |) |) | | | <u></u> | - 0 | | | | | | | 05 |
| P7-6 | 1 | 1400 | 7 | | | | | سية ا | | | | | | | | 06 |
| P7-7 | | 1408 | . \ | | | | | سد | ~ | | | | | | | 07 |
| P7-8 | 1 | 1416 | | 1 | V | | \ \times_{} | 1 | 1 | | | | | | | ୦୫ |
| \wedge | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | - | | | | |
| | | 77 | | | A. | - C | | | a | 81 | | | PRESS DO | WN FIR | MLY - | 3 COPIE |
| Sampler's Signature _ | | <u> </u> | Sampled B | By (Print Name) | HND | KEW C. | 1 EK | Affiliat | | <u> </u> | | | | | | |
| Upon relinquishing, this submitted in writing to | Chain of Cust | ody is your auth ect Manager. Th | norization for ere will be c | r Prism to proc harges for any | eed with changes | the analyse after analy | s as requested a ses have been ini | bove. Ar itialized. | ny change | es must be | | | | processor | | SE ONLY |
| Relinquisted By: (Signature) | 7 | · · · · · · · · · · · · · · · · · · · | Rec | eived By (Signature |) (| 4 | | | Date 8 | Military/ | | Addition | al Comments | : Site A | rrival Tim | e: |
| Relinquished By: (Signature) | 24g. | · | Rec | eived By: (Signatore | elas | 5,00 | | | Date) | 10 161 | // | | | Site D | eparture | Time: |
| Ille | e lass va | <u> </u> | | | 2 | | | | 525/2 Date / | 4 13 | 22 | | | Field | Tech Fee | |
| Relinquished By. (Signature) | Mark. | | | 7.20 | | | | | 8/21 | 13 15 | 15 | | | Milea | ge: | |
| Method of Shipment. NOTE: A SAMPLE | AMPLE COOLE | ERS SHOULD BE TAI PTED AND VERIFIED | AGAINST COC | CUSTODY SEALS UNTIL RECEIVED A | FOR TRAN | SPORTATION T DRATORY. | O THE LABORATORY | • | COC Großu | No. | | | | | , | |
| □ Fed Ex □ UPS □ Hand | delivered DPrisr | m Field Service | Other | | - | | | | ୦୦୧ | 10585 | | | 1 | | SEE DEV | FRSF FOR |

DRINKING WATER:

□NC □SC

SOLID WASTE:

□ NC □ SC

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

UST

NC SC NO SC NO SC

NPDES:

GROUNDWATER:

SEE REVERSE FOR TERMS & CONDITIONS

OTHER:

LANDFILL

NC SC NC SC NC SC NC SC

- 3 COPIES

Page 14 of 14



| A49 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Phone: 704/529-6364 • Fax: 704/525-0409 Client Company Name: 9 & Eug. 0 F N C Report To/Contact Name: A. Ey & Received ON WET ICE? Temp. 7. T. X Project Name: UST REMOVALS, B3656 Short Hold Analysis: (Yes) (No) *Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements Invoice To: N CDOT Received ON WET ICE? Temp. 7. T. X PROPER PRESERVATIVES indicated? Received WITHIN HOLDING TIMES? CUSTODY SEALS INTACT? VOLATILES rec'd W/OUT HEADSPACE? | /PRIS | | III-Service Anal | | CHAII PAGE <u> </u> OF _ | 1 | | DIUDT URE PROPER BILL | | JKV | — Sami | oles INTACT u | LAB USE ON | LLY Y¥S No | O N/A |
|---|------------------------------|--|--|----------------|---------------------------------------|-------------|--|--------------------------|-------------------------------|------------|--|-------------------|----------------|----------------------|------------------------|
| The Property of Contract Name: A STATE OF THE Property of Contract Name: | LABORA | TORIES, INC. | | | Proiect Name | . US | ST RE | MOVALS. B | 33656 | | | | | ¥ _ | <u></u> . |
| Glient Company Name: 42 F. E. M. C. P. C. | | | | | | | | | | (No) | 45/125/45/ | | | <u> </u> | |
| Report not Address : 7.0 Bet 17/20 No. 27/10 Phone: 1/0-327-8/8/5 Fax Vest 9(6): | Client Company Name | : QEL EN | V9. OF A | 16 | *Please ATTA | CH any | project spe | cific reporting (| QC LEVEL I I | I III IV) | N. 1985 S. 198 | | | | - x- |
| Reporting Address: P. O. So. 1926 2 The No. 2.7709 Phone: 910-327-81/25-8x Yes) 603: The No. 2.7709 Phone: 910-327-81/25-8x Yes) 603: Enal (Gos) No. 5 miles Address: 48-20-94 Len EDD Type: PDF Eccol Other Site Location mass: 2-8-710-71 H.M. with U.S. C. Site Location mass: 2-8-710-71 H.M. with U.S. C. Site Location Physical Address: 91/10-1 Page 5-71 The Total No. 1 Page 5-71 The Total | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| Phone: 19-323-8225 px (res) 6(S): Email (Se) (No) Email Address O. 2 C. 2 C. 1 C. 1 C. 1 C. 2 Site Location Name: C. 2 C. 2 C. 1 C. 2 C. 2 C. 2 C. 2 C. 2 | Reporting Address: | P.O. B. | 0x 1426 | <u> </u> | | | | 1.0 | <u></u> | | — Isotopic | | | <u> X</u> = | |
| Email (Ge) (No) Email Address School (As and School | 0.8.202.6 | | | 09 | Address | (3/17 | 777 | | | | <u> – Etsan</u> | | | | |
| Required Du Dripe: PDF Brook Office Size Location Name: | | | | · . | Purchase Ord | ler No./E | Billing Refer | ence WBS 3 | 3202.1 | .2 | TO BE F | ILLED IN B | Y CLIENT/SAM | PLING PERS | ONNEL , |
| Size Location Physical Address: \$72/bu Target Street Street Target Target | | | <i>-</i> | I R well | | | | | | | | | | | |
| Site Location Physical Address: \$21/col. PARK 5. CLENT DATE SAMPLE DESCRIPTION COLLECTED MILITARY WATER (SOLL) WATER (SOLL) SAMPLE COLLECTED MILITARY WATER (SOLL) SAMPLE COLLECTED MILITARY WATER (SOLL) SAMPLE DESCRIPTION COLLECTED MILITARY WATER (SOLL) SAMPLE DESCRIPTION COLLECTED MILITARY WATER (SOLL) SAMPLE DESCRIPTION COLLECTED MILITARY WATER (SOLL) SAMPLE DESCRIPTION COLLECTED MILITARY WATER (SOLL) SAMPLE COLLECTED MILITARY WATER (SO | EDD Type: PDFEx | | | -/- | | , □6 | -9 Days 🖫 St | andard 10 days 🗖 | Rush Work Mus Pre-Approved | st Be | | | | | |
| SER PLANT OF LIEUT COLLECTED MATRIX (SOIL TIME COLLECTED MATRIX (SOIL TIME (SOIL TIME (SOIL TIME (SOIL TIME) MATRIX (SOIL TIME) | | | | | | d after 15: | :00 will be pro | cessed next busine | ss day. | | Water C | | | | |
| CLIENT SAMPLE DESCRIPTION COLLECTED MILITARY WATER OR SUDGES SEPECIAN HOURS SAMPLE CONTAINER (SOIL (SO | Site Location Physical | Aduress: | CANTO | J. HC | (SEE REVE | RSE FOR TI | ERMS & CONDI | TIONS REGARDING | | auyo. | | | | NO | |
| SAMPLE DESCRIPTION COLLECTED MILTON WATER OF HOURS SUDJECT WATER OF HOURS SUDJECT WATER OF SERVICE WATER OF | | | | | | | | | | ANAL | | · | | | |
| Sampler's Signature Sampler By (Print Name) And Pack D. C. F.R. Affiliation Get Color of the Print of Coutody is your authorization for Print to proceed with the analyses as refusested above. Any changes must be PRISM USE ONLY Site Arrival Trint: Site Departure Trint: Site D | | | *************************************** | (SOIL, | | E CONTA | WINEH . | | /.00 | / 🗴 / | / / | 1 / | / / * | | 5. |
| SB 7-1A 9/lu/le 0922 SB 7-8A 9/lu/le 0940 Sampled By (Print Name) ANDREW D. E/R Affiliation PRESS DOWN FIRMLY - 3 COPIES Upon Ninquishing, this Chain of Custody's your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to tigh Prism Project Manager. There will be charges for your changes after analyses have been initialized. PRESS DOWN FIRMLY - 3 COPIES PRISM USE ONLY Size Armal Time: Size Armal Time: Size Armal Time: Size Open Time: Field Tech Fee Infligation Of Signment NOTE ALL SAMPLE COLIES SHOULD BETAP DOSHLY AFTER INCREMED AT THE LABORATORY. OCC Open Pro. OCC | SAMPLE DESCRIPTION | COLLECTED | 1 | | 1 | NO. | SIZE | | | 15,4 | | | REMAI | iks | |
| Sampler's Signature Sampled By (Print Name) Sampled By (Spindard By Sampled | 587-4A | | 0845 | 500 | VOA | 5 | 40 mc | | V | | | 2020 | 8260 + NTE | BE ETPE | |
| Sampler's Signature Sampled By (Print Name) Sampled By (Spindard By Sampled | SB7-7A | 9/10/10 | 0922 | | | / | | . / | L | | | | " | , | 02 |
| Sampled by (Print Name) Sampled By (Print Name) Sampled By (Print Name) Sampled By (Print Name) LyCR Affiliation Set Signature Upon chinquishing, 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. PRESS DOWN FIRMLY - 3 COPIES PRISM USE ONLY Site Arrival Time: Site Arrival Time: Site Departure Time: Site Departure Time: Field Tech Fee: Wileage: NPDES: USY GROUNDWATER: Onlike The College And Verified Adainst Jood Whater: Other Field Service For Field Service For Field Service For Field Service For Field Service Other Field Service Other Field Service For Field Service Other Field Service Other Field Service For Field Servi | SB7-8A | 9/16/10 | | | | | | | u u | <u> </u> | | | " | | 03 |
| Sampler's Signature Sampled By (Print Name) | SB4-3A | 9/16/10 | 1005 | 7 | | | | \sim | UV | _ | | V | " " | A) | 04 |
| Sampled By (Print Name) Anglew Affiliation Expensive Affiliation Expensive Affiliation Expensive Affiliation Expensive | | ,,,,,, | | 3 | 7 | Ĕ | 7 | 7 | | | | | | | |
| Sampled By (Print Name) Anglew Affiliation Expensive Affiliation Expensive Affiliation Expensive Affiliation Expensive | | | | | | ₹ | \$ | 3 | | | - | - | | | |
| Sampled By (Print Name) Anglew Affiliation Expensive Affiliation Expensive Affiliation Expensive Affiliation Expensive | | | - Manager of the state of the s | X | | Y | V | <i>Y</i> | | | | | | | |
| Sampled By (Print Name) Anglew Affiliation Expensive Affiliation Expensive Affiliation Expensive Affiliation Expensive | | | | | | | | | | | | | | | |
| Sampled By (Print Name) Anglew Affiliation Expensive Affiliation Expensive Affiliation Expensive Affiliation Expensive | | | 2 - V LATER SIGN THE SECOND SIGN SIGN AS CARREST N. P. | | | | A STATE OF THE STA | | | | | | | | |
| Sampled By (Print Name) Anglew Affiliation Expensive Affiliation Expensive Affiliation Expensive Affiliation Expensive | \wedge | neering response to the second | CONTRACTOR AND ADDRESS OF THE CONTRACTOR AND ADDRESS OF THE CONTRACTOR | ,, | | | | | | | 1 | | | | |
| Sampled By (Print Name) Anglew Affiliation Expensive Affiliation Expensive Affiliation Expensive Affiliation Expensive | | | | | | | | | | | | | | | |
| Sampled By (Print Name) Anglew Affiliation Expensive Affiliation Expensive Affiliation Expensive Affiliation Expensive | | 4 C | | | , | | | | | | | | | 4 | |
| Upon relinquished, this Chain of Custody's 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) Received | | 7.8 | ~ | a | (5 | Λ | 25.17 | 5 ,00 | | as | c , | -i | PRESS DOW | N FIRMLY - | 3 COPIES |
| submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized. Received By: (Signature) | | Chain of Custo | dylic your auth | | <u> </u> | | | | I | | | | = | and profession | 107 A. J. C. C. C. C. |
| Relinquished By (Signature) Received By: (Signature) Received For Prism Laboretories By: Received For Prism Laboretories By: Received For Prism Laboretories By: Date / /// D | submitted in writing to t | he Prism Projec | ct Manager. Th | ere will be ch | narges for any | changes | after analys | es have been in | itialized. | anges mu | ist be | | | PRISM U | SE ONLY |
| Relinquished By: (Signature) . | [| Cin - | | | <i>V</i> X | lex | res) | te | Date DC | 11210 | Military/Hou 082 | Addition Addition | onal Comments: | SECTION SECTIONS | 1141 1141 1141 1141 |
| Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH OUSTODY SEATS FOR TRANSPORTATION TO THE LABORATORY. Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH OUSTODY SEATS FOR TRANSPORTATION TO THE LABORATORY. Fed Ex | Relinquished/By (Signature) | LOSEL | 1 | Recei | ived By: (Signature) | / / | | | Date/ | 17/10 | 1030 | 9 | | | |
| Method of Shipment: NoTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. Fed Ex | Relinquished By: (Signature) | | 3/12//1 | | ived For Prism Lab | retories By | : | | I Date/ | ' y | 1215 | | | | |
| Fed Ex | Method of Shipment: NOTE: AL | L SAMPLE COOLER | RS SHOULD BE TAP | ED SHUT WITH | | | | THE LABORATORY. | | | | _ | | | |
| NPDES: UST: GROUNDWATER: DRINKING WATER: SOLID WASTE: RCRA: CERCLA LANDFILL OTHER: NC SC TWO SC NC SC | | | * * | | THE RECEIVED A | TILL LADU | ZOATONT. | | o | 0904 | 113 | | | | |
| OPIGINAL | NPDES: UST. | GROUND | WATER: DR | INKING WA | | | 1 | | LAND | FILL | OTHER: | | | SEE REV TERMS & 0 | ERSE FOR CONDITIONS |
| | <u> </u> | | | | <u> </u> | | | | 🖸 | | | | | ORIGINA | AL |

Page 16 of 16

APPENDIX VIII

Laboratory Analytical Records





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 7, 92 Park St., Canton, NC

Project No.: WBS# 33202.1.2 Lab Submittal Date: 08/20/2010 Prism Work Order: 0080585

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

Rossi a. In

Data Qualifiers Key Reference:

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.



Sample Receipt Summary

08/31/2010

Prism Work Order: 0080585

| Client Sample ID | Lab Sample ID | Matrix | Date Sampled | Date Received |
|------------------|---------------|--------|--------------|---------------|
| P7-1 | 0080585-01 | Solid | 08/17/10 | 08/20/10 |
| P7-2 | 0080585-02 | Solid | 08/17/10 | 08/20/10 |
| P7-3 | 0080585-03 | Solid | 08/17/10 | 08/20/10 |
| P7-4 | 0080585-04 | Solid | 08/17/10 | 08/20/10 |
| P7-5 | 0080585-05 | Solid | 08/17/10 | 08/20/10 |
| P7-6 | 0080585-06 | Solid | 08/17/10 | 08/20/10 |
| P7-7 | 0080585-07 | Solid | 08/17/10 | 08/20/10 |
| P7-8 | 0080585-08 | Solid | 08/17/10 | 08/20/10 |

Samples received in good condition at 4.9 degrees C unless otherwise noted.







Project: Parcel 7, 92 Park St., Canton,

NC

Project No.: WBS# 33202.1.2

Sample Matrix: Solid

Client Sample ID: P7-1

Prism Sample ID: 0080585-01 Prism Work Order: 0080585 Time Collected: 08/17/10 13:17 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 14:21 | JMV | P0H0519 | |
| | | | Surrogate | | | Recov | /ery | Control Limits | | |
| | | | o-Terphenyl | | | 93 | 3 % | 49-124 | | |
| Gasoline Range Organics by GC/FIE |) | | | | | | | | | |
| Gasoline Range Organics | BRL | mg/kg dry | 6.4 | 0.83 | 50 | *8015C | 8/27/10 20:50 |) HPE | P0H0623 | |
| | | | Surrogate | | | Recov | /ery | Control | Limits | |
| | a,a,a-Trifluorotoluene 107 | | | 7 % | 55-129 | | | | | |
| General Chemistry Parameters | | | | | | | | | | |
| % Solids | 71.9 | % by Weight | 0.100 | 0.100 | 1 | *SM2540 G | 8/23/10 14:30 | JAB | P0H0517 | |







Project: Parcel 7, 92 Park St., Canton,

NC

Project No.: WBS# 33202.1.2

Sample Matrix: Solid

Client Sample ID: P7-2 Prism Sample ID: 0080585-02 Prism Work Order: 0080585 Time Collected: 08/17/10 13:20 Time Submitted: 08/20/10 15:15

| General Chemistry Parameters % Solids | 72.1 | % by | 0.100 | 0.100 | 1 | *SM2540 G | 8/23/10 14:30 | JAB | P0H0517 |
|---------------------------------------|--------|-----------|-----------------|----------|--------------------|-----------|-----------------------|---------|-------------|
| | | | a,a,a-Trifluor | otoluene | | 95 | 5 % | 55-129 | |
| | | | Surrogate | | | Reco | ery/ | Control | Limits |
| Gasoline Range Organics | BRL | mg/kg dry | 6.3 | 0.82 | 50 | *8015C | 8/27/10 21:23 | B HPE | P0H0623 |
| Gasoline Range Organics by GC/FID | | | o-Terphenyl | | | 10 | 0 % | 49-124 | |
| | | | Surrogate | | | Reco | ery | Control | Limits |
| Diesel Range Organics | BRL | mg/kg dry | 9.7 | 1.6 | 1 | *8015C | 8/25/10 14:56 | 5 JMV | P0H0519 |
| Diesel Range Organics by GC/FID | | | | | | | | | |
| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |







Project: Parcel 7, 92 Park St., Canton,

NC

Project No.: WBS# 33202.1.2

Sample Matrix: Solid

Client Sample ID: P7-3 Prism Sample ID: 0080585-03 Prism Work Order: 0080585 Time Collected: 08/17/10 13:30 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 | 9.6 | 1.6 | 1 | *8015C | 8/25/10 17:19 |) JMV | P0H0519 |
| | | | Surrogate | | | Recov | /ery | Control | Limits |
| | | | | o-Terphenyl | | | 2 % | 49-124 | |
| Gasoline Range Organics by GC/F | ID | | | | | | | | |
| Gasoline Range Organics | BRL | mg/kg dry | 6.4 | 0.83 | 50 | *8015C | 8/27/10 21:55 | HPE | P0H0623 |
| | | | Surrogate | | | Recov | /ery | Control | Limits |
| | | | a,a,a-Trifluoi | rotoluene | | 69 | 9 % | 55-129 | |
| General Chemistry Parameters | | | | | | | | | |
| % Solids | 72.6 | % by Weight | 0.100 | 0.100 | 1 | *SM2540 G | 8/23/10 14:30 | JAB | P0H0517 |







Project: Parcel 7, 92 Park St., Canton,

NC

Project No.: WBS# 33202.1.2

Sample Matrix: Solid

Client Sample ID: P7-4
Prism Sample ID: 0080585-04
Prism Work Order: 0080585
Time Collected: 08/17/10 13:33

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 | 23 | mg/kg dry | 9.8 | 1.6 | 1 | *8015C | 8/25/10 17:54 | JMV | P0H0519 |
| | | | Surrogate | | | Reco | very | Control | Limits |
| | | | o-Terpheny | I | | 112 % | | 49-124 | |
| Gasoline Range Organics by GC/FID | 1 | | | | | | | | |
| Gasoline Range Organics | BRL | mg/kg dry | 6.5 | 0.85 | 50 | *8015C | 8/27/10 23:32 | 2 HPE | P0H0623 |
| | | | Surrogate | | | Reco | very | Control | Limits |
| | | | a,a,a-Trifluo | rotoluene | | 11 | 8 % | 55-129 | |
| General Chemistry Parameters | | | | | | | | | |
| % Solids | 70.6 | % by Weight | 0.100 | 0.100 | 1 | *SM2540 G | 8/23/10 14:30 | JAB | P0H0517 |







Project: Parcel 7, 92 Park St., Canton,

NC

Project No.: WBS# 33202.1.2

Sample Matrix: Solid

Client Sample ID: P7-5 Prism Sample ID: 0080585-05 Prism Work Order: 0080585 Time Collected: 08/17/10 13:55

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 | 9.9 | 1.6 | 1 | *8015C | 8/25/10 15:3 | 2 JMV | P0H0519 |
| | | | Surrogate | | | Recov | very | Control | Limits |
| | | | o-Terphenyl | | | 96 | 5 % | 49-124 | |
| Gasoline Range Organics by GC/FID | | | | | | | | | |
| Gasoline Range Organics | BRL | mg/kg dry | 5.2 | 0.68 | 50 | *8015C | 8/28/10 0:04 | HPE | P0H0623 |
| | | | Surrogate | | | Recov | ery/ | Control | Limits |
| | | | a,a,a-Trifluoi | otoluene | | 87 | ' % | 55-129 | |
| General Chemistry Parameters | | | | | | | | | |
| % Solids | 70.4 | % by Weight | 0.100 | 0.100 | 1 | *SM2540 G | 8/23/10 14:30 |) JAB | P0H0517 |







Project: Parcel 7, 92 Park St., Canton,

NC

Project No.: WBS# 33202.1.2

Sample Matrix: Solid

Client Sample ID: P7-6 Prism Sample ID: 0080585-06 Prism Work Order: 0080585 Time Collected: 08/17/10 14:00

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 | 9.9 | 1.6 | 1 | *8015C | 8/25/10 16:07 | 7 JMV | P0H0519 |
| | | | Surrogate | | | Recov | very | Control | Limits |
| | | | o-Terphenyl | | | 82 | ? % | 49-124 | |
| Gasoline Range Organics by GC/FID | | | | | | | | | |
| Gasoline Range Organics | BRL | mg/kg dry | 6.8 | 0.88 | 50 | *8015C | 8/30/10 10:50 |) HPE | P0H0623 |
| | | | Surrogate | | | Recov | very | Control | Limits |
| | | | a,a,a-Trifluo | rotoluene | | 10 | 9 % | 55-129 | |
| General Chemistry Parameters | | | | | | | | | |
| % Solids | 70.2 | % by Weight | 0.100 | 0.100 | 1 | *SM2540 G | 8/23/10 14:30 | JAB | P0H0517 |







Project: Parcel 7, 92 Park St., Canton,

NC

Project No.: WBS# 33202.1.2

Sample Matrix: Solid

Client Sample ID: P7-7
Prism Sample ID: 0080585-07
Prism Work Order: 0080585
Time Collected: 08/17/10 14:08
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 | 41 | mg/kg dry | 8.9 | 1.4 | 1 | *8015C | 8/25/10 21:26 | JMV | P0H0519 |
| | | | Surrogate | | | Recovery | | Control Limits | |
| | | | o-Terphenyl | | | 97 | 7 % | 49-124 | |
| Gasoline Range Organics by GC/FII | D | | | | | | | | |
| Gasoline Range Organics | 30 | mg/kg dry | 6.9 | 0.90 | 50 | *8015C | 8/30/10 11:22 | HPE | P0H0623 |
| | | | Surrogate | | | Reco | very | Control | Limits |
| | | | a,a,a-Trifluo | rotoluene | | 99 | 9 % | 55-129 | |
| General Chemistry Parameters | | | | | | | | | |
| % Solids | 78.7 | % by Weight | 0.100 | 0.100 | 1 | *SM2540 G | 8/23/10 14:30 | JAB | P0H0517 |







Project: Parcel 7, 92 Park St., Canton,

NC

Project No.: WBS# 33202.1.2

Sample Matrix: Solid

Client Sample ID: P7-8
Prism Sample ID: 0080585-08
Prism Work Order: 0080585
Time Collected: 08/17/10 14:16
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 | 41 | mg/kg dry | 7.7 | 1.2 | 1 | *8015C | 8/25/10 22:02 | 2 JMV | P0H0519 |
| | | | Surrogate | | | Recov | very | Control | Limits |
| | | | o-Terphenyl | | | 100 % | | 49-124 | |
| Gasoline Range Organics by GC/F | ID | | | | | | | | |
| Gasoline Range Organics | BRL | mg/kg dry | 5.3 | 0.68 | 50 | *8015C | 8/30/10 11:5 | 4 HPE | P0H0623 |
| | | | Surrogate | | | Recov | very | Control | Limits |
| | | | a,a,a-Trifluorotoluene | | 110 % | | 55-129 | | |
| General Chemistry Parameters | | | | | | | | | |
| % Solids | 90.7 | % by Weight | 0.100 | 0.100 | 1 | *SM2540 G | 8/23/10 14:30 |) JAB | P0H0517 |



GEL Engineering of NC, Inc.

Project: Parcel 7, 92 Park St., Canton,

Project No: WBS# 33202.1.2

NC

Prism Work Order: 0080585

Time Submitted: 8/20/10 3:15:00PM

P. O. Box 14262 RTP, NC 27709

Attn: Andrew Eyer

Gasoline Range Organics by GC/FID - Quality Control

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|-----------------------------------|--------|-----------|-----------|----------|-----------|------------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0H0623 - 5035 | | | | | | | | | | |
| Blank (P0H0623-BLK1) | | | ı | Prepared | & Analyze | d: 08/27/1 | 0 | | | |
| 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) | | | F | Prepared | & Analyze | d: 08/27/1 | 0 | | | |
| 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) | | | F | Prepared | & Analyze | d: 08/27/1 | 0 | | | |
| 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 | | | |



Project: Parcel 7, 92 Park St., Canton,

NC

Project No: WBS# 33202.1.2

Prism Work Order: 0080585

Time Submitted: 8/20/10 3:15:00PM

Diesel Range Organics by GC/FID - Quality Control

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|------------------------|--------|-----------|-----------|----------|------------|----------|------------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0H0519 - 3545A | | | | | | | | | | |
| Blank (P0H0519-BLK1) | | | ı | 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) | | | ı | 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) | | | ı | 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 |

RPD



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

RTP, NC 27709

Project: Parcel 7, 92 Park St., Canton,

NC

Project No: WBS# 33202.1.2

Reporting

Prism Work Order: 0080585

%REC

Time Submitted: 8/20/10 3:15:00PM

General Chemistry Parameters - Quality Control

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|--------------------------|--------|--------------|---------------|-----------|-----------|-------------|--------|-----|-------|-------|
| Batch P0H0517 - NO PREP | | | | | | | | | | |
| Duplicate (P0H0517-DUP2) | Sour | ce: 0080585- | .05 Pr | repared 8 | & Analyze | d: 08/23/10 | | | | |
| % Solids | 70.4 | 0.100 % | 6 by Weight | | 70.4 | | | 0 | 20 | |
| Duplicate (P0H0517-DUP3) | Sour | ce: 0080585- | .06 Pr | epared 8 | & Analyze | d: 08/23/10 | ı | | | |
| % Solids | 70.1 | 0.100 % | 6 by Weight | | 70.2 | | | 0.1 | 20 | |

Spike

Source

Sample Extraction Data

Prep Method: 3545A

| Lab Number | Batch | Initial | Final | Date |
|------------|---------|---------|-------|----------|
| 0080585-01 | P0H0519 | 25.15 g | 1 mL | 08/23/10 |
| 0080585-02 | P0H0519 | 25.14 g | 1 mL | 08/23/10 |
| 0080585-03 | P0H0519 | 25.07 g | 1 mL | 08/23/10 |
| 0080585-04 | P0H0519 | 25.18 g | 1 mL | 08/23/10 |
| 0080585-05 | P0H0519 | 25.02 g | 1 mL | 08/23/10 |
| 0080585-06 | P0H0519 | 25.07 g | 1 mL | 08/23/10 |
| 0080585-07 | P0H0519 | 25.09 g | 1 mL | 08/23/10 |
| 0080585-08 | P0H0519 | 25.05 g | 1 mL | 08/23/10 |
| | | | | |

Prep Method: 5035

| Lab Number | Batch | Initial | Final | Date |
|------------|---------|---------|-------|----------|
| 0080585-01 | P0H0623 | 5.44 g | 5 mL | 08/27/10 |
| 0080585-02 | P0H0623 | 5.49 g | 5 mL | 08/27/10 |
| 0080585-03 | P0H0623 | 5.42 g | 5 mL | 08/27/10 |
| 0080585-04 | P0H0623 | 5.43 g | 5 mL | 08/27/10 |
| 0080585-05 | P0H0623 | 6.78 g | 5 mL | 08/27/10 |
| 0080585-06 | P0H0623 | 5.26 g | 5 mL | 08/27/10 |
| 0080585-07 | P0H0623 | 4.6 g | 5 mL | 08/27/10 |
| 0080585-08 | P0H0623 | 5.25 g | 5 mL | 08/27/10 |
| | | | | |

NO PREP

| Lab Number | Batch | Initial | Final | Date | |
|------------|---------|---------|-------|----------|--|
| 0080585-01 | P0H0517 | 30 g | 30 mL | 08/23/10 | |
| 0080585-02 | P0H0517 | 30 g | 30 mL | 08/23/10 | |
| 0080585-03 | P0H0517 | 30 g | 30 mL | 08/23/10 | |
| 0080585-04 | P0H0517 | 30 g | 30 mL | 08/23/10 | |
| 0080585-05 | P0H0517 | 30 g | 30 mL | 08/23/10 | |
| 0080585-06 | P0H0517 | 30 g | 30 mL | 08/23/10 | |
| 0080585-07 | P0H0517 | 30 g | 30 mL | 08/23/10 | |
| 0080585-08 | P0H0517 | 30 g | 30 mL | 08/23/10 | |





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

Steva H. Bytill

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.



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.



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 |







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: SB7-4A
Prism Sample ID: 0090413-01
Prism Work Order: 0090413
Time Collected: 09/16/10 08:45

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 | S | | | | | | | | |
| % Solids | 85.2 | % by Weight | 0.100 | 0.100 | 1 | *SM2540 G | 9/23/10 15:40 | JAB | P0I0474 |
| Volatile Organic Compounds b | y GC/MS | | | | | | | | |
| 1,1,1-Trichloroethane | BRL | mg/kg dry | 0.0045 | 0.0010 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,1,2,2-Tetrachloroethane | BRL | mg/kg dry | 0.0045 | 0.0013 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,1,2-Trichloroethane | BRL | mg/kg dry | 0.0045 | 0.0013 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,1-Dichloroethane | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,1-Dichloroethylene | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,1-Dichloropropylene | BRL | mg/kg dry | 0.0045 | 0.00095 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,2,3-Trichlorobenzene | BRL | mg/kg dry | 0.0045 | 0.0015 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,2,3-Trichloropropane | BRL | mg/kg dry | 0.0045 | 0.0019 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,2,4-Trichlorobenzene | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,2,4-Trimethylbenzene | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,2-Dibromoethane | BRL | mg/kg dry | 0.0045 | 0.0013 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,2-Dichlorobenzene | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,2-Dichloroethane | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,2-Dichloropropane | BRL | mg/kg dry | 0.0045 | 0.0014 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,3,5-Trimethylbenzene | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,3-Dichlorobenzene | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,3-Dichloropropane | BRL | mg/kg dry | 0.0045 | 0.00094 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 1,4-Dichlorobenzene | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 2,2-Dichloropropane | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 2-Chlorotoluene | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 4-Chlorotoluene | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| 4-Isopropyltoluene | BRL | mg/kg dry | 0.0045 | 0.0013 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Acetone | 0.035 J | mg/kg dry | 0.045 | 0.0020 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Benzene | BRL | mg/kg dry | 0.0027 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Bromobenzene | BRL | mg/kg dry | 0.0027 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Bromochloromethane | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Bromodichloromethane | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Bromoform | BRL | mg/kg dry | 0.0045 | 0.00099 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Bromomethane | BRL | mg/kg dry | 0.0043 | 0.00099 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Carbon Tetrachloride | BRL | mg/kg dry | 0.0091 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Chlorobenzene | BRL | mg/kg dry | 0.0045 | 0.0013 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Chloroethane | BRL | | | | | | | | P0I0384 |
| Chloroform | BRL | mg/kg dry | 0.0091 | 0.0024 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Chloromethane | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| cis-1,2-Dichloroethylene | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P010384 |
| cis-1,3-Dichloropropylene | | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | |
| Dibromochloromethane Dishlorodifluoromethane | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P010384 |
| Dichlorodifluoromethane | BRL | mg/kg dry | 0.0045 | 0.00094 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Ethylbenzene | BRL | mg/kg dry | 0.0045 | 0.00095 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, 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: SB7-4A Prism Sample ID: 0090413-01 Prism Work Order: 0090413 Time Collected: 09/16/10 08:45 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 | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Isopropylbenzene (Cumene) | BRL | mg/kg dry | 0.0045 | 0.0010 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| m,p-Xylenes | BRL | mg/kg dry | 0.0091 | 0.0024 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Methyl Butyl Ketone (2-Hexanone) | BRL | mg/kg dry | 0.045 | 0.0014 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Methyl Ethyl Ketone (2-Butanone) | BRL | mg/kg dry | 0.091 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Methyl Isobutyl Ketone | BRL | mg/kg dry | 0.045 | 0.00099 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Methylene Chloride | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Methyl-tert-Butyl Ether | BRL | mg/kg dry | 0.0091 | 0.00095 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Naphthalene | BRL | mg/kg dry | 0.0091 | 0.0025 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| n-Butylbenzene | BRL | mg/kg dry | 0.0045 | 0.0017 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| n-Propylbenzene | BRL | mg/kg dry | 0.0045 | 0.0013 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| o-Xylene | BRL | mg/kg dry | 0.0045 | 0.0010 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| sec-Butylbenzene | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Styrene | BRL | mg/kg dry | 0.0045 | 0.00089 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| tert-Butylbenzene | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Tetrachloroethylene | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Toluene | BRL | mg/kg dry | 0.0045 | 0.0011 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| trans-1,2-Dichloroethylene | BRL | mg/kg dry | 0.0045 | 0.00090 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| trans-1,3-Dichloropropylene | BRL | mg/kg dry | 0.0045 | 0.00091 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Trichloroethylene | BRL | mg/kg dry | 0.0045 | 0.0013 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Trichlorofluoromethane | BRL | mg/kg dry | 0.0045 | 0.0013 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Vinyl acetate | BRL | mg/kg dry | 0.023 | 0.0031 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Vinyl chloride | BRL | mg/kg dry | 0.0045 | 0.0012 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| Xylenes, total | BRL | mg/kg dry | 0.014 | 0.0034 | 1 | 8260B | 9/20/10 17:39 | KLA | P0I0384 |
| | | | Surrogate | | | Recove | ery | Control I | Limits |
| | | | 4-Bromofluc | robenzene | | 96 | % | 70-130 | |
| | | | Dibromofluo | romethane | | 102 | % | 84-123 | |
| | | | Toluene-d8 | | | 93 | % | 76-129 | |
| Volatile Petroleum Hydrocarbons | by GC/PID/FID | | | | | | | | |
| C5-C8 Aliphatics | BRL | mg/kg dry | 13 | 4.9 | 100 | MADEP VPH | 9/24/10 17:12 | hea | P0I0485 |
| C9-C12 Aliphatics | BRL | mg/kg dry | 13 | 4.7 | 100 | MADEP VPH | 9/24/10 17:12 | hea | P0I0485 |
| C9-C10 Aromatics | BRL | mg/kg dry | 13 | 1.4 | 100 | MADEP VPH | 9/24/10 17:12 | hea | P0I0485 |
| | | | Surrogate | | Recove | Control Limits | | | |
| | | | 2,5-Dibromo | toluene (P | ID) | 73 | % | 70-130 | |

2,5-Dibromotoluene (FID)

70-130

93 %







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: SB7-7A
Prism Sample ID: 0090413-02
Prism Work Order: 0090413
Time Collected: 09/16/10 09:22
Time Submitted: 09/17/10 12:15

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis A Date/Time | nalyst | Batch ID |
|-------------------------------|---------|----------------|-----------------|---------|--------------------|-----------|-------------------------|--------|-------------|
| General Chemistry Parameters | | | | | | | | | |
| % Solids | 79.4 | % 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 | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,1,2,2-Tetrachloroethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,1,2-Trichloroethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,1-Dichloroethane | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,1-Dichloroethylene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,1-Dichloropropylene | BRL | mg/kg dry | 0.0047 | 0.00098 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,2,3-Trichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0015 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,2,3-Trichloropropane | BRL | mg/kg dry | 0.0047 | 0.0020 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,2,4-Trichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,2,4-Trimethylbenzene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,2-Dibromoethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,2-Dichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,2-Dichloroethane | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,2-Dichloropropane | BRL | mg/kg dry | 0.0047 | 0.0014 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,3,5-Trimethylbenzene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,3-Dichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,3-Dichloropropane | BRL | mg/kg dry | 0.0047 | 0.00097 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 1,4-Dichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 2,2-Dichloropropane | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 2-Chlorotoluene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 4-Chlorotoluene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| 4-Isopropyltoluene | BRL | mg/kg dry | 0.0047 | 0.0014 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Acetone | 0.046 J | mg/kg dry | 0.047 | 0.0020 | 1 | 8260B | 9/20/10 18:14 | KLA | P010384 |
| Benzene | BRL | mg/kg dry | 0.0028 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Bromobenzene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Bromochloromethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Bromodichloromethane | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Bromoform | BRL | mg/kg dry | 0.0047 | 0.0010 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Bromomethane | BRL | mg/kg dry | 0.0094 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Carbon Tetrachloride | BRL | mg/kg dry | 0.0047 | 0.0014 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Chlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Chloroethane | BRL | mg/kg dry | 0.0094 | 0.0024 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Chloroform | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Chloromethane | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| cis-1,2-Dichloroethylene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| cis-1,3-Dichloropropylene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Dibromochloromethane | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Dichlorodifluoromethane | BRL | mg/kg dry | 0.0047 | 0.00097 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Ethylbenzene | BRL | mg/kg dry | 0.0047 | 0.00098 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, 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: SB7-7A
Prism Sample ID: 0090413-02
Prism Work Order: 0090413
Time Collected: 09/16/10 09:22
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 | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Isopropylbenzene (Cumene) | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| m,p-Xylenes | BRL | mg/kg dry | 0.0094 | 0.0025 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Methyl Butyl Ketone (2-Hexanone) | BRL | mg/kg dry | 0.047 | 0.0014 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Methyl Ethyl Ketone (2-Butanone) | BRL | mg/kg dry | 0.094 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Methyl Isobutyl Ketone | BRL | mg/kg dry | 0.047 | 0.0010 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Methylene Chloride | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Methyl-tert-Butyl Ether | BRL | mg/kg dry | 0.0094 | 0.00098 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Naphthalene | BRL | mg/kg dry | 0.0094 | 0.0025 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| n-Butylbenzene | BRL | mg/kg dry | 0.0047 | 0.0017 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| n-Propylbenzene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| o-Xylene | BRL | mg/kg dry | 0.0047 | 0.0010 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| sec-Butylbenzene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Styrene | BRL | mg/kg dry | 0.0047 | 0.00092 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| tert-Butylbenzene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Tetrachloroethylene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Toluene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| trans-1,2-Dichloroethylene | BRL | mg/kg dry | 0.0047 | 0.00093 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| trans-1,3-Dichloropropylene | BRL | mg/kg dry | 0.0047 | 0.00094 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Trichloroethylene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Trichlorofluoromethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Vinyl acetate | BRL | mg/kg dry | 0.023 | 0.0032 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Vinyl chloride | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| Xylenes, total | BRL | mg/kg dry | 0.014 | 0.0035 | 1 | 8260B | 9/20/10 18:14 | KLA | P0I0384 |
| | | | Surrogate | | | Recove | ery | Control I | Limits |
| | | | 4-Bromofluc | robenzene | | 97 | % | 70-130 | |
| | | | Dibromofluo | romethane | | 104 | % | 84-123 | |
| | | | Toluene-d8 | | | 93 | % | 76-129 | |
| Volatile Petroleum Hydrocarbons | by GC/PID/FID | | | | | | | | |
| C5-C8 Aliphatics | BRL | mg/kg dry | 14 | 5.3 | 100 | MADEP VPH | 9/28/10 12:39 | hea | P0I0485 |
| C9-C12 Aliphatics | BRL | mg/kg dry | 14 | 5.1 | 100 | MADEP VPH | 9/28/10 12:39 | hea | P0I0485 |
| C9-C10 Aromatics | BRL | mg/kg dry | 14 | 1.5 | 100 | MADEP VPH | 9/28/10 12:39 | hea | P0I0485 |
| | | | Surrogate | | | Recove | Control Limits | | |
| | | | 2,5-Dibromo | 2,5-Dibromotoluene (PID) | | | % | 70-130 | |

2,5-Dibromotoluene (FID)

70-130

87 %







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: SB7-8A Prism Sample ID: 0090413-03 Prism Work Order: 0090413 Time Collected: 09/16/10 09:40 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 | 81.2 | % 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 | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,1,2,2-Tetrachloroethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,1,2-Trichloroethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,1-Dichloroethane | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,1-Dichloroethylene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,1-Dichloropropylene | BRL | mg/kg dry | 0.0047 | 0.00098 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,2,3-Trichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0015 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,2,3-Trichloropropane | BRL | mg/kg dry | 0.0047 | 0.0019 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,2,4-Trichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,2,4-Trimethylbenzene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,2-Dibromoethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,2-Dichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,2-Dichloroethane | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,2-Dichloropropane | BRL | mg/kg dry | 0.0047 | 0.0014 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,3,5-Trimethylbenzene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,3-Dichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,3-Dichloropropane | BRL | mg/kg dry | 0.0047 | 0.00096 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 1,4-Dichlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 2,2-Dichloropropane | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 2-Chlorotoluene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 4-Chlorotoluene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| 4-Isopropyltoluene | BRL | mg/kg dry | 0.0047 | 0.0014 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Acetone | 0.024 J | mg/kg dry | 0.047 | 0.0020 | 1 | 8260B | 9/20/10 18:48 | KLA | P010384 |
| Benzene | BRL | mg/kg dry | 0.0028 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Bromobenzene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Bromochloromethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Bromodichloromethane | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Bromoform | BRL | mg/kg dry | 0.0047 | 0.0010 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Bromomethane | BRL | mg/kg dry | 0.0093 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Carbon Tetrachloride | BRL | mg/kg dry | 0.0047 | 0.0014 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Chlorobenzene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Chloroethane | BRL | mg/kg dry | 0.0093 | 0.0024 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Chloroform | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Chloromethane | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| cis-1,2-Dichloroethylene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | | P0I0384 |
| cis-1,3-Dichloropropylene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | | P0I0384 |
| Dibromochloromethane | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | | P0I0384 |
| Dichlorodifluoromethane | BRL | mg/kg dry | 0.0047 | 0.00097 | 1 | 8260B | 9/20/10 18:48 | | P0I0384 |
| Ethylbenzene | BRL | mg/kg dry | 0.0047 | 0.00098 | 1 | 8260B | 9/20/10 18:48 | | P0I0384 |

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, 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: SB7-8A Prism Sample ID: 0090413-03 Prism Work Order: 0090413 Time Collected: 09/16/10 09:40 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 | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Isopropylbenzene (Cumene) | BRL | mg/kg dry | 0.0047 | 0.0010 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| m,p-Xylenes | BRL | mg/kg dry | 0.0093 | 0.0025 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Methyl Butyl Ketone (2-Hexanone) | BRL | mg/kg dry | 0.047 | 0.0014 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Methyl Ethyl Ketone (2-Butanone) | BRL | mg/kg dry | 0.093 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Methyl Isobutyl Ketone | BRL | mg/kg dry | 0.047 | 0.0010 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Methylene Chloride | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Methyl-tert-Butyl Ether | BRL | mg/kg dry | 0.0093 | 0.00098 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Naphthalene | BRL | mg/kg dry | 0.0093 | 0.0025 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| n-Butylbenzene | BRL | mg/kg dry | 0.0047 | 0.0017 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| n-Propylbenzene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| o-Xylene | BRL | mg/kg dry | 0.0047 | 0.0010 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| sec-Butylbenzene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Styrene | BRL | mg/kg dry | 0.0047 | 0.00091 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| tert-Butylbenzene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Tetrachloroethylene | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Toluene | BRL | mg/kg dry | 0.0047 | 0.0011 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| trans-1,2-Dichloroethylene | BRL | mg/kg dry | 0.0047 | 0.00092 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| trans-1,3-Dichloropropylene | BRL | mg/kg dry | 0.0047 | 0.00093 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Trichloroethylene | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Trichlorofluoromethane | BRL | mg/kg dry | 0.0047 | 0.0013 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Vinyl acetate | BRL | mg/kg dry | 0.023 | 0.0032 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Vinyl chloride | BRL | mg/kg dry | 0.0047 | 0.0012 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| Xylenes, total | BRL | mg/kg dry | 0.014 | 0.0035 | 1 | 8260B | 9/20/10 18:48 | KLA | P0I0384 |
| | | | Surrogate | | | Recove | ery | Control I | ₋imits |
| | | | 4-Bromofluo | robenzene | | 96 | % | 70-130 | |
| | | | Dibromofluc | romethane | | 103 | % | 84-123 | |
| | | | Toluene-d8 | | | 93 | % | 76-129 | |
| Volatile Petroleum Hydrocarbons | by GC/PID/FID | | | | | | | | |
| C5-C8 Aliphatics | BRL | mg/kg dry | 15 | 5.6 | 100 | MADEP VPH | 9/24/10 18:22 | hea | P0I0485 |
| C9-C12 Aliphatics | BRL | mg/kg dry | 15 | 5.4 | 100 | MADEP VPH | 9/24/10 18:22 | hea | P0I0485 |
| C9-C10 Aromatics | BRL | mg/kg dry | 15 | 1.6 | 100 | MADEP VPH | 9/24/10 18:22 | hea | P0I0485 |
| | | | Surrogate | | | Recove | Control Limits | | |
| | | | 2,5-Dibromotoluene (PID) | | | 73 | 70-130 | | |

2,5-Dibromotoluene (FID)

70-130

98 %



Project: NCDOT: Canton UST

Prism Work Order: 0090413

Attn: Andrew Eyer P. O. Box 14262 RTP, NC 27709 Removals (B3656) Project No: WBS# 33202.1.2 Time Submitted: 9/17/2010 12:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| Batch P0I0384 - 5035 | | | |
|----------------------------------|-----|--------|-------------------------------|
| Blank (P0l0384-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 |



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

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| | | | | | | | | | | |

| Batch P0I0384 - 5035 | | | | | | | |
|---------------------------------|--------|--------|-----------|---------------|------------------|--------|--|
| Blank (P0I0384-BLK1) | | | | Prepared & Ar | nalyzed: 09/20/1 | 0 | |
| 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) | | | I | Prepared & Ar | nalyzed: 09/20/1 | 0 | |
| 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 | |
| | | | | | | | |



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

| | | Reporting | | Spike | Spike Source | Source | | %REC | | RPD | |
|---------------------------------|--------|-----------|-----------|----------|--------------|------------|--------|------|-------|-------|--|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes | |
| Batch P0I0384 - 5035 | | | | | | | | | | | |
| LCS Dup (P0I0384-BSD1) | | | 1 | Prepared | & Analyze | d: 09/20/1 | 0 | | | | |
| 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 | | | | |



GEL Engineering of NC, Inc. Attn: Andrew Eyer

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 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 | & Analyze | d: 09/24/1 | 0 | | | |
| 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) | | | ļ | Prepared | & Analyze | d: 09/24/1 | 0 | | | |
| 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) | | | ı | 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. Attn: Andrew Eyer

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

General Chemistry Parameters - Quality Control

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | 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 |
| | | J | | |

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 northwest at initial excavation of USTs at Parcel #7. Fill pipe cover for UST #003 is shown in center foreground.



Photograph 2: View looking east at removal of UST #003.



Photograph 3: View looking east at removal of UST #002. UST #001 product piping is shown in lower left.



Photograph 4: View looking south at compaction of backfill material in UST pit using remote-controlled vibratory roller.



Photograph 5: View looking east at collection of confirmation soil sample SB7-4A. Confirmation soil sample locations SB7-7A and SB7-8 are marked by pink flags in foreground.

APPENDIX X

Compaction Report for Backfilled UST Excavation



MACTEC Engineering and Consulting, Inc.

1308 Patton Avenue – Asheville, North Carolina 28806 (828) 252-8130 phone/(828) 251-9690 fax

CMT Transmittal

TO:

GEL Engineering of NC, Inc.

P.O. Box 14262 Durham, NC 27709

ATTN: Mr. Andrew Eyer

(ade@gel.com)

Date: August 23, 2010

Job Number: 6685101891.01

Job Name: NCDOT UST Backfill -

Canton, NC

ATTACHED IS THE FOLLOWING:

NO. OF

CORRESPONDENCE OR ITEM

<u>Sheets</u>

- 1 Daily Work Summary dated August 13, 2010
- 1 Compaction Test # 1 dated August 17, 2010
- 1 Daily Work Summary dated August 18, 2010
- 1 Report of Field Density Tests performed on August 18, 2010
- 1 Sketch of Density Test Locations dated August 18, 2010

Jill MXkunburg

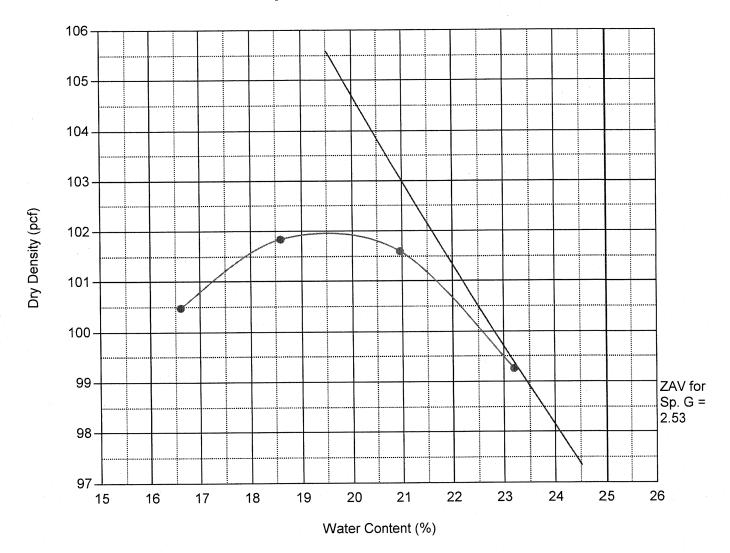
cc:



MACTEC Engineering and Consulting, Inc. 1308 Patton Avenue – Asheville, North Carolina 28806 Phone (828) 252-8130 ~ Fax (828) 251-9690

| DAILY WORK SUMMARY |
|--|
| Page |
| SUMMARY OF OBSERVATIONS AND WORK I EXPORTED |
| Tech traveled to borrow site at 150 Sunset Heights izd. and onet with mike Able. Tech picked up a soil sample from borrow area to transport back to the lab and log in to run a proctor test. Cont. advised they will published be usuked on site next |
| Wednesday. |
| |
| |
| |
| |
| |
| |
| |
| is the state of th |
| |
| |
| |
| |
| |
| " |
| |
| Weather conditions at time of testing: Clear/Partly Cloudy/Gloudy/Light Rain/Heavy Rain/Snow/Sleet Temp. 85° F Submitted by: Mike Dula Date: 8-13-10 |
| Reviewed by: MHeunburg Date: 8/24/10 |

Compaction Test Report



| | Test Results | Material Description | | | |
|---|--|--|--|--|--|
| Test Specification: Maximum Dry Densit Optimum Moisture: | ASTM D698 Standard Proctor Method A y: 102.0 pcf 19.5 % | Brn/Red sl. micaceous, sl. silty SAND | | | |
| Client: GEL Eng Project: Canton D Project No. 6685101 | | Remarks: Natural Field Moisture: 16.5% | | | |
| Test No: 1 Source: Borrow | ID: Date: 8/17/2010 v Site 150 Sunset Heights Road | | | | |
| | MACTEC | Tested By: Jimmy High Checked By: JHunburg | | | |



MACTEC Engineering and Consulting, Inc. 1308 Patton Avenue – Asheville, North Carolina 28806 Phone (828) 252-8130 ~ Fax (828) 251-9690

| DAILY WORK SUMMARY |
|--|
| DAILT WORK GOWN, ICT |
| Date: 8-18-10 Page 1 of 1 |
| Project Name: CANTUR DOT UST Project Number: 6685101891.01 |
| Project Location: CANTON N.C. Client: CEC. Office Time: |
| Requested By: Contractor On-Site Contact: ANDRON W CEL |
| Arrived On-Site: 930 Departed Site: 1245 Travel Time: -75 Total Time Charged: 940 |
| Density Tests Performed: Y/N / Test Numbers: /-> Nuclear Density Gauge Charge:(day) |
| Concrete Testing Performed: $\sqrt{N_{\perp}}$ No. Cylinders Cast: Round Trip Mileage 30 (miles) |
| SUMMARY OF OBSERVATIONS AND WORK PERFORMED |
| |
| |
| TECH WAS ON SITE AS ROYUESTOD TO TEST THE BACKFUL BEING PUTUDO |
| Where Times Has BORN REMOVED - TECH PERFORMED DONSTITUS AS MEDDOS |
| THE SOUL THE TESTS INDAYATED THE COMPACTION TO 13E HISTORY |
| DIE 95% RETURNO, NO TESTS WORE NADOS AL THE ARC BEIN PALOS |
| IN THE LAST 6". SEE ATTACHED WORKSHOOT & SKOTCH DATED 8.18.10 |
| FOR DOMAIN |
| |
| contractor used a walk-behind, vibratory roller to |
| rempact the soil fill. gut |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| Weather conditions at time of testing: Clear/Partly Cloudy/Cloudy/Light Rain/Heavy Rain/Snow/Sleet |
| Town SOS |
| Submitted by: Jimmy High O |
| 2/2/1/10 |

REPORT OF FIELD DENSITY TESTS



1308 Patton Avenue Asheville, North Carolina 28806

CLIENT:

GEL Engineering of NC, Inc.

PROJECT:

Canton DOT UST

JOB NUMBER: 6685101891.01

| Test Date | Test Number | Moisture Content (%) | Dry Density (PCF) | Proctor Number | Max. Dry Density (pcf) | Optimum Moisture (%) | Compaction (%) | Specified Compaction (%) | ASTM Test M ethod | Elevation or Depth |
|--------------|----------------|----------------------------|-------------------------|-------------------|------------------------------|----------------------------|----------------|--------------------------------|--------------------------------|--------------------------|
| 8/18/2010 | 1 | 14.6 | 101.2 | 1 | 102.0 | 19.5 | 99.2 | 95 | D2937 | -1.5 |
| Location: | 6 ft. east and | 7 ft. north of s | southwest co | orner of pit | | | | | | |
| Comments: | | | | | | | | | | |
| Drive Tube \ | olume: 0.033(| cu. ft.) | | | | Moisture Te | st Method: D49 | 59 | | |
| 8/18/2010 | 2 | 14.4 | 98.7 | 1 | 102.0 | 19.5 | 96.8 | 95 | D2937 | -0.5 |
| Location: | Northwest Co | rner | | | | | | | | |
| Comments: | | | | | | | | | | |
| Drive Tube \ | /olume: 0.033(| cu. ft.) | | | | Moisture Te | st Method: D49 | 59 | | |
| 8/18/2010 | 3 | 14.8 | 100.2 | 1 | 102.0 | 19.5 | 98.2 | 95 | D2937 | -0.8 |
| Location: | Southeast Co | rner | | | | | | | | |
| Comments: | | | | | | | | | | |
| Drive Tube \ | /olume: 0.033(| cu. ft.) | | | | Moisture Te | st Method: D49 | 959 | | |

REMARKS

Performed in General Accordance With Referenced ASTM Methods << Denotes Percent Compaction or Moisture is Less Than Specifed.

Jill M Heimburg

The results presented in this report relate only to the items tested. This report shall not be reproduced, except in full, without written approval from MACTEC Engineering and Consulting.



JOB NO. 6685101891.01 SHEET _____ OF _____ PHASE _____TASK _____

JOB NAME CANTON DOT UST

| MACIEC Engineering and Consulting, Inc. 1308 Patton Avenue Asheville, NC 28806 | CHECKED BY JMH | DATE 8/24/10 |
|---|--|--------------------|
| | SIDEMANL SIDEMA | DARW ST 13 SOZZULS |
| | 8 | |