

REPORT

PARE Project No. 13062.09

**SITE INVESTIGATION REPORT
FOR
BLACKSTONE VALLEY PREPARATORY SCHOOL
52 BROAD STREET
A.P. 2, LOT 26
Cumberland, Rhode Island**

Prepared for:

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CERTIFICATION

In accordance with Section 7.05 of the Remediation Regulations, the following certifications are made:

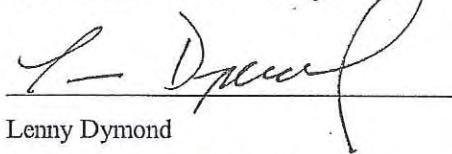
I certify, to the best of my knowledge, this report is a complete and accurate representation of the contaminated Site and the information obtained during the course of the Site Investigation.



Date: 3/14/14

Timothy P. Thies, P.E.
Managing Engineer, Pare Corporation

I certify, to the best of my knowledge, this report is a complete and accurate representation of the contaminated Site and the information obtained during the course of the Site Investigation.



Date: 3/14/14

Lenny Dymond
Project Executive, Civic Broad Street Corporation



EXECUTIVE SUMMARY

The Site is defined as an approximately 1.3-acre parcel located at 52 Broad Street, which is identified as Lot 26 on Cumberland Tax Assessor's Plat Map 2. The property is currently under construction as part of the Blackstone Valley Preparatory School project. Up until construction of the new school, the Site had been a public park dating back to the late 1970s. Prior to that, it had been the site of a single family home with a detached residential automobile garage dating back to the 1850s.

On December 28, 2013, personnel from Pare Corporation (PARE) were on Site to observe the construction of the new Blackstone Valley Preparatory School. At that time, excavation for the construction of a continuous building footing was being performed approximately 55 feet north of the southern property line. At a depth of approximately 8 feet below existing grade, PARE personnel observed potentially contaminated soil, which appeared to be impacted by a black substance with a significant petroleum odor. The discovery of the potentially contaminated soil occurred in the vicinity of an old building foundation, which was encountered at this location and depth on that same day. Excavation was ceased until further investigation could be performed.

Between December 30, 2013 and January 6, 2014, PARE conducted a limited subsurface investigation at the Site, which included excavation, removal, stockpiling, sampling, and chemical analysis of the impacted soil. The initial investigation occurred on December 30, 2013 and included the excavation of approximately 50 cubic yards of soil. After PARE's initial investigation, one sidewall confirmatory sample and the bottom sample had contaminant concentrations in excess of the RI DEM Method 1 Industrial/Commercial Direct Exposure Criteria (I/C DEC). As a result, PARE returned to the Site on January 6, 2014 to remove additional soil from the offending sidewall and collect additional confirmatory samples. The investigation included the collection of eight (8) discrete confirmatory samples from the sidewalls and bottom of the excavation, as well as one (1) composite waste characterization sample from the stockpile of excavated contaminated material.

A supplemental subsurface investigation was completed by PARE to identify if the Site had been impacted by hazardous materials or petroleum products beyond the minor contamination identified on December 28, 2013 (designated as Area 1). The investigation, which was



performed by PARE personnel on February 4, 2014, consisted of eight (8) test pits, including two (2) test pits performed within the proposed school building footprint, and soil sampling and chemical analysis. As part of the investigation performed, PARE collected eighteen (18) discrete soil samples for chemical analysis. In general, the discrete samples consisted of one (1) shallow soil sample and one (1) deep soil sample collected from native material at each test pit. At some locations, a shallow sample could not be collected because the native material had already been removed and replaced with structural fill for the building. At other locations, additional samples were collected based on field screening.

Up until the discovery of the Release earthwork occurred at the Site that included stripping loam, removing asphalt and concrete, ledge removal beneath the building foundation, and some minor gravel excavation. To date, approximately 2,128 cubic yards of loam had been stripped from the Site and transported to J. Fisk Construction, Inc. in Seekonk, MA. In addition, approximately 435 cubic yards of concrete/asphalt and approximately 805 cubic yards of rock also went off-site to J. Fisk Construction. Approximately 182 cubic yards of gravel left the Site and were transported to Lonsdale Concrete Construction, Inc. in Cumberland, RI. In addition, approximately 1,400 cubic yards of processed gravel for structural fill were imported to the Site from J. Fisk Construction. PARE personnel were on-Site during the excavation and site work activities that occurred prior to the discovery of the Release. Up until the Release was discovered, none of the material that left the Site exhibited any obvious signs of contamination (e.g., odor, discoloration, etc.).

During excavation of the first test pit, designated as S-1, PARE personnel observed evidence of impacted soil at a depth of approximately 5 feet on the southeastern edge of the test pit. At that depth, PARE noted a strong petroleum odor and observed soil with a dark black color. The area of impacted soil was approximately 5 feet wide by 5 feet long, and had a thickness of approximately 1 foot. This area has been designated as Area 2 to differentiate it from the initial release discovered on December 28, 2013. The backhoe operator excavated this soil and additional soil around the sidewalls and bottom of the test pit until no further evidence of contaminated soil could be discerned. The dimensions of the excavation after soil removal were approximately 7 feet by 7 feet by 6 feet deep. Four (4) sidewalls and one (1) bottom confirmatory sample were collected from the excavation. Contaminated soil from the excavation was stockpiled on a polyethylene sheet on the south side of the Site with the existing contaminated soil stockpile from Area 1. Additional exploration was performed in the vicinity of



the contaminated soil to verify that no other contamination existed in this area of the Site, particularly between Areas 1 and 2 to identify if there was a discernible connection between the two releases. The additional exploration area, located approximately 40 feet southeast of Area 1, measured approximately 35 feet by 18 feet by 11 feet deep at its deepest point. In the remaining test pits, PARE personnel observed no other obvious signs of contamination (i.e., no discolored soil, no strong odors, and no signs of buried debris). While no obvious signs of contamination were identified, PARE collected soil samples for chemical analysis from each test pit.

During the course of the Site Investigation, PARE personnel observed no evidence of shallow groundwater in the vicinity of Area 1 or Area 2, or in any of the other test pits performed by PARE. In addition, no evidence of groundwater was identified in 11 out of 15 soil borings performed as part of the geotechnical program. Water was identified in 4 of the geotechnical borings; however, it is believed that the water identified was perched wash water introduced as part of the drilling process. Therefore, it appears as though there is not a significant groundwater presence beneath the Site and that it is unlikely that the contaminated soil discovered on Site has impacted groundwater. Based on a file review performed by PARE as part of the Phase I ESA for the Site, there is contaminated groundwater identified north of the Site associated with a release of naphthalene at concentrations above the GA groundwater objective. Although groundwater beneath the Site is classified as GB, naphthalene is included in the EPA's list of *Chemicals of Potential Concern for Vapor Intrusion*. That said, with the exception of the waste soil sample collected from the stockpiled material scheduled for off-Site removal, no soil samples collected as part of this Site Investigation were reported to contain concentrations of chemicals found in the EPA's list exceeding their respective R DEC. In addition, based on the lack of definitive evidence of shallow groundwater encountered during the geotechnical investigation performed at the Site, PARE believes that naphthalene-contaminated groundwater north of the Site does not pose a reasonable potential for migration of contaminated vapors or gases into the proposed school building. Therefore, vapor intrusion into the proposed school building does not appear to be a significant concern at the Site.

Based on the results of the Site Investigation, PARE believes that the most appropriate way to address soil contamination at the Site is selective soil removal and disposal as well as implementation of engineered and institutional controls (i.e., soil cap and Environmental Land Usage Restriction [ELUR]). This option requires that the Site owner selectively remove and dispose of soil from areas identified as contaminated during the investigation, as well as cap



contaminated soil located below the proposed school building and record an ELUR with the property deed restricting future soil disturbance in this portion of the Site. This remedial measure is more protective of human health and the environment than no action/natural attenuation and more cost-effective than the complete removal and disposal of all contaminated soil discovered on Site.

PARE proposes that areas of the Site outside of the school footprint with reported contaminant concentrations above their respective RI DEM regulatory thresholds be addressed through selective excavation of the contaminated soil and disposal at a licensed facility. The remedial action is proposed to be completed during construction activities that are proposed in the vicinity of Area 1 and Area 2, as well as the area around test pit S-2, which has elevated concentrations of PAHs. These construction activities include underground utility installation, underground infiltration system installation, and landscaping and paver installation. Confirmatory samples will be collected from each of these areas subsequent to soil removal to verify compliance with the Remediation Regulations. Confirmatory samples collected from Area 1 and Area 2 will be analyzed for SVOCs via EPA method 8270D and total Lead via EPA method 6010C, based on the results of confirmatory samples collected during the Site Investigation. Confirmatory samples collected from the area of contaminated soil in the vicinity of test pit S-2 will be analyzed for SVOCs via EPA method 8270D due to the elevated concentrations of PAHs, a subset of SVOCs, reported in this test pit during Site Investigation.

For exceedances reported below the proposed school building footprint, PARE proposes that these contaminants be addressed through capping soil in place utilizing the building foundation as an engineered control over the contaminated soil. The cap will prevent contact with the contaminated soil and limit contaminant mobility. In addition, a vapor barrier and passive sub-slab ventilation system will be installed beneath the building, as originally proposed; even though the risk for vapor intrusion at this Site appears to be insignificant.



SECTION 1.0 – INTRODUCTION

This Site Investigation (SI) was conducted by Pare Corporation (PARE) on behalf of Civic Broad Street Corporation of New York, NY. The investigation was conducted due to elevated concentrations of total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs), and metals reported in soil at 52 Broad Street in Cumberland, RI. Provided herein is a summary of the events leading to the discovery of these contaminants, the results of PARE's SI, and PARE's recommended remedial measure.



SECTION 2.0 – SITE INVESTIGATION SCOPE (SECTION 7.03 – RI DEM HAZARDOUS WASTE REGULATIONS)

The following section is an annotated summary of the SI scope, in response to items A through W of Section 7.03 of the Remediation Regulations. Cited sections of the Regulations are provided in bold text.

Section 7.03 A: A list of specific objectives of the Site Investigation identifying all data collected to completely characterize the Contaminated-Site, the Release, the impacts of the Release and to select a remedy;

The objective of the SI was to evaluate the nature and extent of contaminants in soil at the Site. The Site is defined as the property located at 52 Broad Street in Cumberland, RI (A.P. 2, Lot 26) and is the location of the Blackstone Valley Preparatory Charter School, as indicated on the attached Locus Map and Site Plan (refer to Appendices A and B, respectively). The objective of the SI was also to develop an appropriate remedial measure(s) for RI Department of Environmental Management (DEM) review and approval. The contaminants subject to evaluation consisted of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), and metals in soil at the Site. The data that was used to characterize the Site includes soil chemical analytical data collected during the course of the SI. Groundwater chemical analytical data was not obtained because there was no evidence of groundwater beneath the Site. A complete table of that analytical data is provided in Appendix C.

Section 7.03 B: All information previously reported in a Notification of Release required by Rule 5.01 (Notification of Release) and an Emergency and Short-Term Response Report required by Rule 6.09 (Emergency and Short-Term Response Report), if applicable. The performing party may elaborate and expand on any and all information found in those reports. The performing party shall correct any incorrect information or interpretations contained in those reports prior to their incorporation into the Site Investigation Report;

A copy of the Notification of Release (NOR) is included as Appendix D for reference. It was submitted to the RI DEM on January 16, 2014. A summary of the NOR is provided below.

The property is an approximately 1.3-acre parcel located at 52 Broad Street, which is identified as Lot 26 on Cumberland Tax Assessor's Plat Map 2. The property is currently zoned commercial.



However, at the time of the writing of the Phase I Environmental Site Assessment (ESA), which was performed by PARE in July 2013, the property was zoned Open Space. Much of the development in the area appears to be dense and a mixture of residential and commercial uses. Industrial uses are also present in the area, particularly along the Blackstone River south and west of the Site.

Prior to construction, the Site was partially cleared, with the exception of a few mature trees along the northern, eastern, and western edges of the Site. The Site was used as a Town-owned public park with recreational facilities, including a basketball court, street hockey court, and a skate park. With the exception of the basketball courts, hockey area, and skate park, the Site was primarily lawn and landscaped areas. Based on data reviewed for the July 2013 Phase I ESA, it appears that a two story residence and a detached residential automobile garage were located on Site, possibly as late as 1977. The Town took ownership of the Site in 1968, and the 1977 aerial photograph is the first aerial photograph where these structures cannot be seen, suggesting that these structures were demolished sometime between 1968 and 1977.

On December 28, 2013, PARE was on Site to observe the construction of the new Blackstone Valley Preparatory School. At that time, excavation for the construction of a continuous building footing was being performed approximately 55 feet north of the southern property line. At a depth of approximately 8 feet below existing grade, PARE personnel observed potentially contaminated soil, which appeared to be impacted by a black oily substance with a significant petroleum odor. The discovery of the potentially contaminated soil occurred in the vicinity of an old building foundation, which was encountered at this location and depth on that same day. Excavation ceased until further investigation could be performed.

Between December 30, 2013 and January 6, 2014, PARE conducted a limited subsurface investigation at the Site, which included excavation, removal, stockpiling, and sampling of the impacted soil. The initial investigation occurred on December 30, 2013 and included the excavation of approximately 50 cubic yards of soil. After PARE's initial investigation, one sidewall confirmatory sample and the bottom sample had contaminant concentrations in excess of the RI DEM Method 1 Industrial/Commercial Direct Exposure Criteria (I/C DEC). As a result, PARE returned to the Site on January 6, 2014 to remove additional soil from the offending sidewall and collect additional confirmatory samples. In total, the limited subsurface investigation included the collection of eight (8) discrete confirmatory samples from the sidewalls



and bottom of the excavation and one (1) composite waste characterization sample collected from the stockpile of excavated contaminated material. These samples are shown on the attached Site Plan and are designated as CONF-1 through CONF-8 and “WASTE”.

PARE sent the eight (8) confirmatory samples and one (1) waste characterization sample with chain-of-custody documentation to New England Testing Laboratory (NETLAB) of North Providence, Rhode Island for chemical analysis. The confirmatory samples were tested for:

- Volatile Organic Compounds (VOCs), EPA method 8260B;
- Semi-Volatile Organic Compounds (SVOCs), EPA method 8270D;
- Total Petroleum Hydrocarbons (TPH), EPA method 8100M;
- Total Arsenic, Lead, and Mercury, EPA method 6010C/7471B¹; and
- Additional parameters from the EPA’s list of *Chemicals of Potential Concern for Vapor Intrusion*, not included in the standard VOC and SVOC analysis.

The waste characterization sample was tested for:

- VOCs, EPA method 8260B;
- SVOCs, EPA method 8270D;
- TPH, EPA method 8100M (including TPH fingerprint analysis);
- Polychlorinated Biphenyls (PCBs), EPA method 8082A;
- Pesticides, EPA method 8081B;
- Total Metals, EPA method 6010C/7471B;
- TCLP Metals, EPA method 6010C/7470A;
- Free Liquids, EPA method 9095B;
- Percent Organics, ASTM method D2974;
- Cyanide, EPA method 9014; and
- Additional parameters from the EPA’s list of *Chemicals of Potential Concern for Vapor Intrusion*, not included in the standard VOC and SVOC analysis.

PARE collected CONF-1 through CONF-4 and the waste characterization sample on December 30, 2013. Elevated concentrations of TPH, chrysene, and metals were reported in the waste

¹ CONF-2 not tested for arsenic or mercury due to excavation and stockpiling of side wall.



characterization sample. Specifically, the reported concentrations for TPH (2,320 mg/kg), chrysene (0.43 mg/kg), and mercury (38.4 mg/kg) exceeded their respective RI DEM Method 1 Residential Direct Exposure Criteria (R DEC) thresholds (500 mg/kg, 0.40 mg/kg, and 23 mg/kg, respectively). Furthermore, arsenic (12.3 mg/kg) and lead (1,710 mg/kg) exceeded their respective I/C DEC thresholds (7 mg/kg and 500 mg/kg, respectively). Based on a hydrocarbon fingerprint analysis, the petroleum type in the waste characterization sample was reported by the laboratory to be a mix of No.2 heating oil/diesel and No.6 fuel oil or motor oil/lubricant.

In addition, elevated concentrations of some SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs) at CONF-2, were reported. Given the elevated concentration of arsenic, mercury, and lead reported in the waste characterization sample, PARE had the sidewall samples and bottom sample reanalyzed for the aforementioned constituents. As with the PAH sample results, lead was reported to be elevated at sample location CONF-2. The elevated concentration of lead and most of the elevated PAH concentrations exceeded their R DEC, while one PAH, benzo(a)pyrene, exceeded its I/C DEC. The elevated concentrations of the constituents found in CONF-2 were not reported in the other sidewall samples (i.e., CONF-1, CONF-3, and CONF-4). However, the bottom sample, designated as CONF-5, was reported to contain arsenic (7.41 mg/kg) at a concentration slightly exceeding its I/C DEC (7 mg/kg).

Due to the elevated concentrations of PAHs and total lead at CONF-2, PARE coordinated further excavation of the contaminated soil and collected additional confirmatory samples on January 6, 2014. Material was removed on the side of the excavation where CONF-2 was located, which was excavated eastward approximately three (3) feet. New confirmatory samples were collected from this sidewall and analyzed for VOCs, SVOCs, TPH, and select total metals (i.e., arsenic, lead, and mercury). Slightly elevated concentrations of lead and two (2) PAHs – benzo(a)pyrene and chrysene – were reported in the sample, designated as CONF-7, which was collected near the bottom of the 11-foot deep excavation. These constituents were reported slightly above their respective R DECs.

It should be noted that approximately 3 to 6 feet of soil below the original grade was excavated for the construction of the continuous footing prior to encountering any suspect contaminated soil. As a result, much of the Site had already been lowered by 3 to 6 feet prior to encountering any suspect contaminated soil. Only a small area along the southern and eastern property line remained at the original grade. The excavation performed as part of this investigation started at



the bottom of the southern and eastern sidewall embankment and went approximately 5 feet further below grade. This resulted in 11-foot sidewalls on the southern and eastern side of the excavation and 5-foot sidewalls on the northern and western sidewalls. RI DEM pre-approved confirmation sampling requires one (1) soil sample per 25 feet of sidewall length, one (1) soil sample for every 5 feet of sidewall depth, and one (1) bottom soil sample for every 625 square feet of area. Because none of the sidewalls were greater than 25 feet in length (i.e., 20 feet by 14 feet), sidewalls ranged from 5 to 11 feet bgs, and the release encompassed 280 square feet, PARE collected two (2) sidewall samples from each of the 11-foot sidewalls (CONF-1, CONF-6, CONF-7, and CONF-8), one (1) sample from each of the 5-foot sidewalls (CONF-3 and CONF-4), and one (1) bottom sample (CONF-5).

Visibly, the contaminated section of soil was encountered at a depth of 8 to 9 feet below original grade, approximately 5 feet west of a stone foundation associated with the former residence. The excavation of contaminated material was approximately 20 feet by 14 feet and 5 feet in depth (designated as Area 1). All contaminated material was stockpiled on Site on a layer of polyethylene sheeting and was also covered by polyethylene sheeting. Groundwater was not observed in the excavation.

Based on PARE's initial assessment, it appears as though the source of the Release (i.e., elevated concentrations of TPH, PAHs, and metals) is an isolated pocket of petroleum that was buried on Site. PARE believes that the buried waste encountered near the foundation of the former residence has been in place since, and possibly before, the former residence was demolished between 1968 and 1977. Based on the depth of the excavation and the elevated concentrations of contaminants at CONF-2, it is possible that the Release ranges in depth from 8 feet below original grade to approximately 11 feet below original grade. Based on the depth and the area in which the excavation was located, PARE's initial and preliminary estimate of contaminated soil is approximately 50 to 60 cubic yards. This estimate is approximate and will be verified by the hauler of the material upon disposal. It is likely that an additional 25 to 50 cubic yards of soil will be excavated to address some trace concentrations of contamination remaining at the Site.

At this time, all contaminated soil removed from the excavation has been stockpiled on a layer of polyethylene sheeting on the south end of the Site and has been covered by an additional layer of polyethylene sheeting (see attached Site Plan). Based on confirmatory sampling results, it appears that the contaminated soil has been substantially removed from this excavation, with



reported concentrations of VOCs, SVOCs, TPH, and total arsenic, lead, and mercury reported at trace or non-detect levels on three of the four sidewalls. In addition, only arsenic was found to contain contaminant concentrations in excess of its RI DEM regulatory threshold on the excavation bottom. However, the reported concentrations on the east wall of the excavation for lead (175 mg/kg), chrysene (0.47 mg/kg), and benzo(a)pyrene (0.50 mg/kg) slightly exceeded their respective R DEC thresholds (150 mg/kg, 0.40 mg/kg, and 0.40 mg/kg, respectively). It should be noted that these concentrations were reported in sample CONF-7 at a depth of approximately 11 feet below original grade. Sample CONF-6 was collected at a depth of approximately 3 feet below original grade on the same sidewall and had contaminant concentrations reported significantly below their respective R DEC criteria or below their laboratory method detection limits. As such, it appears that any residual contamination in the excavation is limited to the deepest part of the excavation.

The Release was discovered as part of an ongoing construction project, was excavated, and currently does not represent an imminent threat to human health or the environment. It is proposed that the Release be addressed by disposing of the contaminated soil at a licensed facility (e.g., the Rhode Island Resource Recovery Corporation's Central Landfill). As necessary for the installation of the continuous footing, the excavation shall be backfilled with clean suitable soil.

Section 7.03 C: *Documentation of any past incidents or releases (fires, spills, explosions, leaks, etc.);*

PARE performed an environmental due diligence for the Site prior to construction. Specifically, PARE performed a Phase 1 ESA in accordance with ASTM E1527-05 to evaluate whether the Site could be considered potentially contaminated. The results of the ESA provided no direct evidence that the Site had ever been impacted by a release. The Site was not listed by the RI DEM as a State Hazardous Waste Site, LUST site, or in any other database that would indicate a past release at the property. In addition, the past use of the Site was as a public park and single family residence, which both represent relatively low risks of significant environmental concerns. The only potential risk identified during the Phase I ESA was the former presence of a gas station on the abutting parcel to the south of the Site. It is believed that groundwater in the vicinity of the Site flows in a southerly and westerly direction, which would make the former gas station downgradient from the Site. Nonetheless, given the proximity of the former gas station and the unknown disposition of the former USTs at the gas station, it was deemed prudent to perform an investigation of shallow groundwater beneath the southern edge of the Site. The



limited groundwater investigation was performed less as a result of a substantial concern about groundwater, but more because it could be done easily and without much expense when done as part of the project's geotechnical investigation. The limited groundwater investigation included the advancement of three geotechnical borings along the common property line between the Site and the former gas station property. At each location, bedrock was encountered at a depth ranging from 6 feet to 14 feet. Groundwater was not encountered in any of the three boring locations; although water was recorded in one boring; however, that water was thought to be perched wash water introduced as part of the drilling process. The results of the limited groundwater investigation effectively eliminated the possibility that shallow groundwater beneath the Site has been impacted by the adjacent former gas station facility.

Section 7.03 D: A list of past Owners and Operators at the Contaminated-Site including their past uses of the property, a sequencing of property transfers and time periods of occupancy to the extent that this information is available;

Civic Broad Street Corporation recently purchased the Site from the Town of Cumberland. Information obtained from the Town of Cumberland's Tax Assessor Field Card and Registry of Deeds indicates that the property was granted to the Town of Cumberland from Carolyn C. Currier in 1968. No record of ownership was available prior to 1968. The Tax Assessor Field Card indicates that fencing, the basketball court, and tennis courts/skate park were built in 1990 and that the Site is approximately 1.3 acres. In addition, Lots 27 and 31 were added to Lot 26 in April 2002. Prior to this, it appears that the Site was comprised of the three individual residential lots. Tax Assessor Field Card and Registry of Deeds information are included as Appendix E.

Historical aerial photography and certified Sanborn maps reviewed by PARE as part of the Phase I ESA indicate that there was a dwelling and residential automobile garage at the Site at the time the Town took ownership of the property. These records suggest that the building structures were demolished sometime in the early to mid-1970s. It is unknown whether these buildings were served by any aboveground or underground storage tanks.



Section 7.03 E: *All previously existing environmental information which characterizes the Contaminated-Site and all information that led to the discovery of a Contaminated-Site;*

Prior to the discovery of the Release, PARE performed a Phase I ESA on the Site to identify any historical incidents of known contaminant releases (see Appendix P). The results of the ESA provided no direct evidence that the Site had ever been impacted by a release. Potential contamination was first discovered by PARE personnel through olfactory and visual screening during excavation of a continuous building footing for the proposed school on December 28, 2013. Soil contamination was verified by laboratory analysis after confirmatory sampling was conducted by PARE personnel on December 30, 2013. Due to elevated concentrations of PAHs and total lead, PARE conducted additional confirmatory sampling on January 6, 2014. The nature and extent of contamination resulting from the Release is described in Section 7.03 K.

Section 7.03 F: *A description of the current uses and zoning of the Contaminated-Site including a brief statement on each active operation performed therewith, a description of the processes employed, a list of all wastes generated, a list of all Hazardous Materials handled, and a statement summarizing any Residential Activity on the Contaminated-Site;*

The Site is currently owned by the Civic Broad Street Corporation and zoned as commercial space. The property is currently in the construction phase for the Blackstone Valley Preparatory School. Prior to commencement of construction, the Site was zoned Open Space and was used as a Town-owned public park with recreational facilities, including a basketball court, street hockey court, and skate park. Currently, there is no significant waste generation at the Site.

Section 7.03 G: *A locus map showing the location of the Contaminated-Site using the U.S. Geological Survey 7.5 minute quadrangle map or a copy of a section of that U.S.G.S. map;*

A locus map of the Site and surrounding area, from the United States Geological Survey (USGS) Quadrangle map for Attleboro, Massachusetts – Rhode Island, has been included in Appendix A.

Section 7.03 H: *A site plan, drawn to scale, showing the locations of all buildings, activities and structures on the Contaminated-Site including, but not limited to:*

- i. A North arrow;*
- ii. Wells;*
- iii. Underground injection control systems, septic tanks, underground storage tanks, piping and other underground structures;*



-
- iv. *Outdoor Hazardous Material storage and handling areas, and extent of paved areas;*
 - v. *The location of all environmental samples previously taken at the Contaminated-Site;*
 - vi. *All waste management and disposal areas, active and/or historical; and*
 - vii. *Property lines;*

The attached Site Plan (Appendix B) includes the information required in parts (i) through (vii) of Item H, as applicable.

Section 7.03 I: A general characterization of the property surrounding the area affected by the Release including, but not limited to:

- i. *The location and distance to any surface water bodies within five hundred (500) feet of the Contaminated-Site;*
- ii. *The location and distance to any Environmentally Sensitive Areas within five hundred (500) feet of the Contaminated-Site;*
- iii. *The actual sources of potable water for all properties immediately abutting the contaminated-site;*
- iv. *The location and distance to all public water supplies which have been active within the previous 2 years and within one (1) mile of the Contaminated-Site;*
- v. *A determination as to whether the Release impacts any off-site area utilized for residential or industrial/commercial property or both; and*
- vi. *A determination of the underlying groundwater classification and if the classification is GB, the distance to the nearest GA/GAA area;*

PARE reviewed available Rhode Island Geographic Information System (RIGIS) information to characterize the Site area utilizing the RI DEM's interactive Environmental Resource Map. A general characterization of the property surrounding the area affected by the Release is provided below:

- i. There are no surface water bodies located within 500 feet of the Site.
- ii. A deciduous wetland exists approximately 475 feet southeast of the Site, which appears to be associated with the Blackstone River. It should be noted, however, that the Site is identified on the RI DEM Environmental Resource Map as conservation land owned by the Town of Cumberland due to its former use as a public park.
- iii. The area and the properties abutting the Site are served by the Pawtucket Water Supply Board (PWSB). Upon completion of the proposed school, the Site will be served by the PWSB, though the PWSB does not currently serve the Site.
- iv. Part of the Pawtucket Wellhead Protection Area is located approximately 1,500 feet to the east of the Site. According to the RI Source Water Assessment Program's Cumberland, Lincoln and Pawtucket Source Water Assessment, the PWSB owns and operates eight (8) community supply wells along the Happy Holly Reservoir. High-density residential development accounts for more than 50 percent of the protection area.



The Lincoln Lonsdale Wellhead Protection Area is located approximately 4,000 feet west of the Site. A mix of high-density residential development and agriculture accounts for the land use activity within the wellhead protection area.

- v. Based on sampling data, it does not appear as though the contaminants of concern have migrated to any off-Site area. Moreover, based on the subsurface investigation, it does not appear that groundwater has been impacted as a result of the Release. However, no sampling was performed on abutting properties.
- vi. Groundwater beneath the Site is classified as GB. The nearest GA/GAA groundwater classification areas are located approximately 1,100 feet to the east and west of the Site.

Section 7.03 J: Classifications of surface water and groundwater at or surrounding the Contaminated-Site which could be potentially impacted by the Release of Hazardous Materials;

Groundwater beneath the Site is classified by the RI DEM as GB. Groundwater classified as GB consists of groundwater resources which may not be suitable for public or private drinking water use without treatment due to known or presumed degradation (RI DEM Groundwater Quality Rules, June 2010). According to RIGIS data reviewed by PARE, the Site is partially located within the Lower Blackstone Moshassuck groundwater reservoir and the Blackstone River Sub-basin watershed. The Site is not located within a wellhead protection area or sole source aquifer. Therefore, based on the Site's location in a GB groundwater area and outside any known wellhead protection areas, it does not appear as though this Release poses a significant threat of contaminating a wellhead protection area or other drinking water source. Given that the contamination has been substantially removed and no groundwater was encountered in any areas excavated at the Site, the threat that this Release has impacted or will migrate to groundwater in the future is extremely low.

A total of fifteen (15) soil borings were completed as part of the project's geotechnical investigation. Based on observations taken during the investigation, water was reportedly encountered in four (4) borings at the Site. Three borings located on the northern section of the building footprint, identified as B13-9, B13-12, and B13-13, and one boring located south of the building footprint, identified as B13-6, had water reported at depths ranging from ≈10-15 feet below ground surface (bgs). It is important to note that as part of the boring activities, water was introduced to each borehole as part of the drilling process and may not have dissipated at the time that the groundwater measurement was taken. As part of the geotechnical design basis for the



Site, the geotechnical engineers categorize this water as groundwater in order to introduce a factor of safety into the development of the geotechnical parameters used during the design of the foundations, buildings, and other Site improvements associated with the proposed project. That said, it is doubtful that the water reported in these 4 boreholes is groundwater, and is most likely perched wash water resulting from the geotechnical activities.

As part of the Phase I ESA, PARE reviewed RI DEM file information for select properties abutting or in close proximity to the Site. Based upon the review of available and selected regulatory agency records, known releases exist in the area around the Site, though none of the releases were found on abutting parcels. Many of the releases identified in the vicinity of the Site occurred at locations either along Broad Street or further to the east and west of the Site, near the Blackstone River or Happy Hallow Pond. With regard to groundwater contamination, two (2) releases, located at 94 Broad Street and 49 Abbott Street, appear to have impacted groundwater in the vicinity of the Site and are discussed in the following excerpts from the Phase I ESA.

94 Broad Street, Cumberland, RI

The property located at 94 Broad Street is approximately 280 feet north of the Site. It was identified as a RIDEM LUST site (LUST project number: 0818-LS) on April 26, 1994 and Spill site (Spill report number: 3883) on November 16, 1989. RIDEM did not have any Spill report files available for this property, but PARE did review the LUST file.

On November 9, 1994 one 6,000 gallon gasoline tank, one 4,000 gallon gasoline tank, two 3,000 gallon gasoline tanks, one 2,000 gallon diesel tank, and one 1,000 gallon No. 2 fuel oil tank were all closed at the property. During tank closure, approximately 270 cubic yards of contaminated soil was removed from the property. No groundwater was reportedly encountered during tank removal.

*A Limited Site Investigation Report (LSIR) was prepared by FJA Environmental Associates on November 6, 2001. As part of this LSIR, three groundwater monitoring wells were installed and groundwater sampling was conducted. Groundwater samples that were collected and analyzed did not result in an exceedance of regulatory limits for petroleum based contaminants. As such, a letter of **No Further Action** was issued by the RIDEM on November 13, 2001.*

Based upon file information reviewed by PARE, it does not appear that groundwater in the vicinity of the Site has been impacted to a significant degree by this release. Also, groundwater measurements recorded during the LSIR indicated groundwater flow to be westerly toward the Blackstone River, making it potentially cross-gradient from the Site. Therefore, it appears unlikely that this release represents a significant threat of REC at the Site.

49 Abbot Street, Cumberland, RI

The property located at 49 Abbot Street is approximately 1/4-mile northeast of the Site. It



was identified as a RIDEM LUST site (LUST project numbers: 0831-LS and 0831A-ST) on August 13, 1996 and again on July 18, 2006, respectively, due to petroleum releases.

Alliance Environmental Group (AEG) performed a UST tank closure on July 19 and 26, 2006 of three 10,000 gallon Number 2 fuel oil tanks. During the UST tank closure, AEG noticed that soil showed signs of coal ash and petroleum impacts. Four monitoring wells were installed on February 6, 2007, and sampled on May 25, 2007. Samples indicated that naphthalene was above the GA groundwater objective. As a result of this, the property is required by the RIDEM to perform quarterly groundwater monitoring. The last groundwater sampling data reviewed by PARE, dated May 2012, indicates that naphthalene remains above the GA groundwater objective in two of the wells. Groundwater flow direction at this property is reported to be to the southwest, toward the Site and eventually to the Blackstone River.

Based upon file information reviewed by PARE, groundwater in the vicinity of the Site may have been impacted as a result of this release. Therefore, this release represents a potential REC for the Site as it is presumed to be downgradient from this property.

As presented above, it appears unlikely that groundwater has been impacted at the Site as a result of the release at 94 Broad Street. However, the release located at 49 Abbott Street was reported to contain naphthalene at concentrations above the GA groundwater objective and flowing in a southwesterly direction toward the Site. Although groundwater beneath the Site is classified as GB, naphthalene is included in the EPA's list of *Chemicals of Potential Concern for Vapor Intrusion*. Based on results of the geotechnical investigation performed at the Site and the absence of groundwater in any of the test pits performed by PARE, PARE believes that naphthalene-contaminated groundwater that is present beneath 49 Abbot Street does not pose a reasonable potential for migration of contaminated vapors or gases into the proposed school building. For more information on EPA's list of *Chemicals of Potential Concern for Vapor Intrusion* as it relates to the Site, refer to Section 7.03 P.

The closest surface water body to the Site is the Blackstone River, located approximately 750 feet to the south. The Blackstone River is classified by the RI DEM as Class B1. Class B1 waters are designated for primary and secondary contact recreational activities and fish and wildlife habitat. They shall be suitable for compatible industrial processes and cooling, hydropower, aquacultural uses, navigation, irrigation and other agricultural uses. These waters shall have good aesthetic value. Primary contact recreational activities may be impacted due to pathogens from approved wastewater discharges. However, all Class B criteria must be met. (RI DEM Water Quality Regulations, July 2006, amended December 2010). Given the location of the Release (i.e., soil) and the considerable distance (i.e., 750 feet) between the Site and the Blackstone River, and the



absence of shallow groundwater at the Site, the threat that this Release has impacted or will migrate to the river in the future is extremely low.

Section 7.03 K: *A description of the contamination resulting from the Release including, but not limited to:*

- i. Free liquids on the surface;*
 - ii. Concentrations of Hazardous Substances which can be shown to present an actual or potential threat to human health, including, but not limited to, any concentrations of Hazardous Substances in excess of any of the remedial objectives listed in Tables 1 or 2 of Rule 8.02.B (Method 1 Soil Objectives) or Tables 3 or 4 of Rule 8.03.B (Method 1 Groundwater Objectives); or Section 12 (Special Requirements for Managing Arsenic in Soil);*
 - iii. A determination/opinion as to whether the Release of Hazardous Material has the potential to adversely impact an Environmentally Sensitive Area;*
 - iv. Contamination of man-made structures;*
 - v. Odors or stained soil;*
 - vi. Stressed vegetation;*
 - vii. The presence of excavated or stockpiled material and an estimate of its total volume;*
 - viii. Environmental sampling locations, sampling procedures and copies of the results of any analytical testing undertaken at the Contaminated-Site; and*
 - ix. A list of the Hazardous Substances at the Contaminated-Site;*
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- i. To date, no free liquids have been observed on the ground surface. In addition, no separate phase product (i.e., LNAPL and DNAPL) was observed on the groundwater table given that no groundwater was observed in the vicinity of the Release.
 - ii. Refer to Section 7.03 L.
 - iii. Based on the sampling data and the Site's location, it does not appear that the contaminated soil will have any adverse impact to Environmentally Sensitive Areas. It is noted that the Site is classified by the RI DEM's Environmental Resource Map as conservation land owned by the Town of Cumberland due to its former use as a public park.
 - iv. Prior to construction of the school, man-made structures present at the Site included bituminous surfaces for the three recreational courts and sidewalks, catch basins, and structures associated with the on-Site electrical system (i.e., light poles, underground conduits, and utility building). At the time of the discovery of the Release, these man-made structures were either removed and disposed of off Site or not encountered during excavation in the vicinity of the Release. Therefore, it is believed that man-made structures present on Site have not been adversely impacted by the contaminated soil. A 4-inch clay pipe was discovered approximately 2 feet bgs on the northern edge of test pit S-1 during excavation on February 4, 2014, though PARE identified no visual or olfactory indications that the pipe was contaminated.



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- v. Apart from the excavated contaminated soil, there were no other incidents of odors or stained soil observed at the Site.
 - vi. No stressed vegetation was observed at the Site during the course of PARE's Phase I ESA.
 - vii. To date, all known exposed contaminated material has been excavated and stockpiled on Site and encapsulated in polyethylene sheeting. PARE's preliminary estimate of the total volume of stockpiled soil is approximately 50 to 60 cubic yards. The final volume will be verified by the material hauler at the waste disposal facility.
 - viii. Refer to Appendix B for environmental sampling locations from this SI. Copies of the results of analytical testing undertaken at the Site are located in Appendix J.
 - ix. There are no hazardous substances used or stored at the Site. Hazardous substances are limited to contaminated soil. Appendix C provides a summary of the Hazardous Substances identified at the Site.



Section 7.03 L: *The concentration gradients of Hazardous Substances throughout the Contaminated-Site for each media impacted by the Release of Hazardous Materials;*

Metals

PARE's initial investigation of Area 1 identified three (3) metals in the waste soil stockpile at concentrations above their respective R DEC or I/C DEC. These metals included arsenic, lead, and mercury. As part of the supplemental investigation, samples from each test pit were analyzed for RCRA 8 metals, which include arsenic, lead, and mercury, as well as five (5) other metals. Arsenic, lead, and mercury were reported in a number of the test pits in varying concentrations, some above the R DEC and some above the I/C DEC. The remaining five (5) metals were reported below their respective R DECs or below the laboratory method detection limit. The following Table 1 summarizes the exceedances of arsenic, lead, and mercury identified during the course of the SI.



Table 1: Total Metal Exceedances (mg/kg)													
Metal	Soil Standards		Sampling Location										
			Confirmatory Sampling							Supplemental Investigation			
	R DEC	I/C DEC	CONF-2 (8 ft)	CONF-5 (11 ft)	CONF-7 (11 ft)	SC-1 (5 ft)	SC-2 (5 ft)	SC-3 (5 ft)	SC-4 (5 ft)	S-1 (2 ft)	S-1 (7 ft)	S-5 (2 ft)	S-5 (8 ft)
Arsenic	7	7	NT	7.41	2.2	3.44	3.49	4.87	2.75	5.19	6.74	7.03	10.8
Lead	150	500	287	43.5	175	330	157	468	315	193	194	16.3	8.21
Mercury	23	610	NT	0.211	ND	0.641	0.370	2.58	0.772	ND	0.309	ND	ND

 = Soil with contaminant concentrations in excess of the R DEC but below the I/C DEC
 = Soil with contaminant concentrations in excess of the I/C DEC
 ND = Not Detected
 NT = Not Tested

Arsenic

The reported concentrations of arsenic in soil at the Site ranged from below laboratory method detection limits at S-2 (8 feet bgs) to 12.3 mg/kg from the stockpiled “WASTE” soil sample. The highest concentration of arsenic reported in situ was 10.8 mg/kg, located at S-5 (8 feet bgs). In total, four (4) samples were reported with concentrations of arsenic in excess of the I/C DEC. Although arsenic levels were reported at the Site above the I/C DEC, concentrations at the Site have been deemed consistent with state background levels based on the criteria set forth in Section 12 of the Remediation Regulations (see Section 7.03 M).

Lead

The reported concentrations of lead in soil at the Site ranged from 1.75 mg/kg at S-4 (2 feet bgs) to 1,710 mg/kg from the stockpiled “WASTE” soil sample. The highest concentration of lead reported in situ was 468 mg/kg, located at SC-3 (5 feet bgs). The stockpiled “WASTE” soil sample was the only reported concentration in excess of the I/C DEC, though eight (8) samples were reported with concentrations above the R DEC, ranging in depth from 2 feet bgs to 11 feet bgs. The exceedances of lead are associated with the confirmatory samples around Areas 1 and 2. None (0) of the remaining test pits had lead concentrations above the R DEC. PARE proposes that areas of the Site with reported concentrations of lead above its RI DEM regulatory threshold be addressed through *selective excavation of the lead-contaminated soil and disposal at a licensed facility*.



Mercury

The reported concentrations of mercury in soil at the Site ranged from below laboratory method detection limits at a number of locations across the Site to 38.4 mg/kg from the stockpiled “WASTE” soil sample. The highest concentration of mercury reported in situ was 0.772 mg/kg, located at SC-4 (5 feet bgs). The stockpiled “WASTE” soil sample was the only reported concentration of mercury that exceeded its R DEC. None (0) of the test pits had mercury concentrations above the R DEC. Therefore, *further investigation or remediation of mercury does not appear to be warranted at this Site.*

Total Petroleum Hydrocarbons



The reported concentrations of total petroleum hydrocarbons (TPH) in soil at the Site ranged from below laboratory method detection limits at a number of locations across the Site to 2,320 mg/kg from the stockpiled “WASTE” soil sample. The highest concentration of TPH reported in situ was 302 mg/kg, located at S-6 (8 feet bgs). The stockpiled “WASTE” soil sample was the only reported concentration of TPH which exceeded its R DEC. None (0) of the test pits had TPH concentrations above the R DEC. Therefore, *further investigation or remediation of TPH does not appear to be warranted at this Site.*

Polycyclic Aromatic Hydrocarbons

The SVOCs reported in soil above their respective R DEC or I/C DEC are all classified within a subset of SVOCs known as polycyclic aromatic hydrocarbons (PAHs). Soil sampling analytical results from across the Site included six (6) PAHs with concentrations in excess of their respective RI DEM regulatory limits, as summarized in the following Table 2. These exceedances were reported in test pits S-2, S-6, and S-7, as well as in two (2) confirmatory samples from Area 1, and one (1) confirmatory sample from Area 2.



Table 2: PAH Exceedances (mg/kg)									
PAH	Soil Standards		Sampling Location						
			Confirmatory Sampling			Supplemental Investigation			
	R DEC	I/C DEC	CONF-2 (8 ft)	CONF-7 (11 ft)	SC-1 (5 ft)	S-2 (2 ft)	S-2 (8 ft)	S-6 (8 ft)	S-7 (6 ft)
Benzo(a)anthracene	0.9	7.8	1.5	0.44	0.48	1.2	0.5	1.4	0.61
Benzo(a)pyrene	0.4	0.8	1.8	0.5	0.42	1.1	0.46	1.3	0.59
Benzo(b)fluoranthene	0.9	7.8	2.2	0.71	0.57	1.5	0.63	1.7	0.79
Benzo(g,h,i)perylene	0.8	10,000	1.1	0.28	0.29	0.79	0.29	0.93	0.39
Chrysene	0.4	780	1.6	0.47	0.55	1.2	0.52	1.5	0.65
Indeno(1,2,3-cd)pyrene	0.9	7.8	1.4	0.36	0.32	0.91	0.32	1	0.44

 = Soil with contaminant concentrations in excess of the R DEC but below the I/C DEC
 = Soil with contaminant concentrations in excess of the I/C DEC

In total, twenty-five (25) RI DEM regulatory exceedances were reported from six (6) PAHs during the course of the SI. Of these exceedances, twenty-two (22) were due to PAH concentrations exceeding their respective R DEC and three (3) were due to PAH concentrations in excess of their respective I/C DEC. Soil samples reported to contain PAHs in excess of their respective RI DEM regulatory thresholds ranged in depth from 2 feet bgs to 11 feet bgs. *PARE proposes that areas of the Site outside of the school building footprint with reported concentrations of PAHs above their respective RI DEM regulatory thresholds be addressed through selective excavation of the PAH-contaminated soil and disposal at a licensed facility. For PAH-contaminated soil located below the proposed school building footprint, which are 6 to 8 feet below grade, PARE proposes that these exceedances be addressed through capping soil in place utilizing the building foundation as an engineered control over the contaminated soil and recording an Environmental Land Usage Restriction for the portion of the Site beneath the building foundation.*

Section 7.03 M: The methodology and results of any investigation conducted to determine background concentrations of Hazardous Substances identified at the Contaminated-Site (for arsenic in soil - see Section 12);

Although arsenic levels were reported at the Site in excess of the I/C DEC, concentrations at the Site have been deemed consistent with state background levels based on the requirements of Section 12 of the Remediation Regulations.



The determination was based on the follow three criteria (results of our investigation are provided in parentheses).

1. No individual sample result from the data set shall be greater than 15 ppm (highest concentration reported on Site is 10.8 ppm, 12.3 ppm in the waste characterization sample);
2. No greater than 25% of sample results from the data set shall exceed 7.0 ppm (only 11.5% of sampling results exceeded 7.0 ppm); and
3. The average of all sample results shall be 7.0 ppm or less (the average concentration on Site is 4.3 ppm).

Based on our evaluation and the criteria set forth in Section 12 of the Remediation Regulations, *the Site arsenic conditions appear to be non-jurisdictional.*

Section 7.03 N: *A listing and evaluation of the site-specific hydrogeological properties that could influence the migration of Hazardous Substances throughout and away from the Contaminated-Site, including but not limited to, where appropriate:*

- i. The depth to groundwater;*
 - ii. The presence and effects of both the natural and man-made barriers to and conduits for contaminant migration;*
 - iii. A characterization of the bedrock; and*
 - iv. The groundwater contours, flow rates and gradients throughout the Contaminated-Site;*
- i. PARE conducted a limited groundwater study as part of a geotechnical investigation at the Site. The limited groundwater investigation included the advancement of three geotechnical borings along the common property line between the Site and the former gas station property to the south of the Site. At each location, bedrock was encountered at a depth ranging from 6 feet to 14 feet. Groundwater was not encountered in any of the three boring locations.
 - ii. Prior to the start of construction, the Site was served by electric through underground conduits that originated from a utility building on the northern portion of the Site. The underground electrical system served stadium lighting used for the sporting areas and also a security camera system. In addition, according to a Topographic & Property Line Survey developed by National Surveyors-Developers, Inc. of Woonsocket, RI, dated December 1991, public water was historically buried on Site via a connection from Chase



Street, which serviced two (2) water fountains located on the southern portion of the Site. Sewer lines are present throughout the area, but were not reported to be actively serving the Site prior to commencement of construction. The school building is proposed to include underground drainage, sewer, water, and gas lines. Though these man-made structures buried on Site could act as a barrier to, or conduit for, contaminant migration, the contaminants of concern at the Site are confined to soil. Moreover, during the course of the SI, no evidence of shallow groundwater in the vicinity of the Release was observed, thus eliminating groundwater as a conduit for contaminant migration.

- iii. Based on a review of the RI DEM Environmental Resource Map, the bedrock formation beneath the Site is Avalon and composed of Pennsylvanian aged Narragansett Bay Group - Rhode Island Formation. According to U.S. Geological Survey (USGS) Mineral Resources Online Spatial Data, the Rhode Island Formation located in the vicinity of the Site is primarily arenite, which is chemically cemented sandstone. Shale, a laminated mudstone, is the second most abundant rock type. The USGS Ground Water Atlas of the United States indicates that most of the porosity in sandstone rocks consists of secondary openings (i.e., joints, fractures, and bedding planes). Groundwater movement is primarily along bedding planes, but joints and fractures which intersect the bedding plane provide a conduit for vertical migration between bedding planes. Shale has a low permeability, and, similar to sandstone, fluid flow is primarily along bedding planes. Consistent with the USGS data, two (2) rock cores collected as part of the project's geotechnical investigation indicate bedrock at the Site to consist of sandstone and mudstone.
- iv. A limited groundwater investigation was conducted as part of a geotechnical investigation. Groundwater was not encountered during this investigation. Therefore, groundwater contours have not been generated because no evidence of shallow groundwater was observed in the vicinity of the Release.

Section 7.03 O: *A characterization of the topography and surface water and run-off flow patterns, including the flooding potential, of the Contaminated-Site;*

The topography of the Site, which is predominantly cleared due to construction activities, slopes from west to east toward Broad Street. According to a Topographic & Property Line Survey developed by National Surveyors-Developers, Inc. of Woonsocket, RI, dated December 1991, topography at the Site ranges from approximately 74 feet above Mean Sea Level (MSL) near Broad Street to approximately 84 feet above MSL at Chase Street. The surrounding area appears



to generally slope to the south toward the Blackstone River. The Blackstone River is located approximately 750 feet to the south of the Site at its nearest point. It approaches to within 900 feet of the Site to the west as well. The Blackstone River is a major water body in the area, which flows southerly and ultimately discharges to the Atlantic Ocean at Narragansett Bay.

Prior to construction of the school, surface water runoff on the northern portion of the Site flowed overland toward Broad Street, which contains catch basins and a closed drainage system. Stormwater runoff on the southern portion of the Site flowed overland to the south toward two catch basins located along the southern property line.

Based on PARE's review of the available Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps (Town of Cumberland, Rhode Island, Providence County, Community Panel Number 440016 0194 G, effective date March 2, 2009), the Site is located in an area designated as Zone X. Zone X is defined as an area determined to be outside the 0.2% annual chance floodplain. The FEMA Flood Zone Map is included as Appendix I.

Section 7.03 P: The potential for Hazardous Substances from the Contaminated-Site to volatilize and any and all potential impacts of the volatilization to structures within the Contaminated-Site;

Throughout the course of the SI, only the stockpiled "WASTE" soil sample was reported to contain a concentration of a contaminant included in the EPA's list of *Chemicals of Potential Concern for Vapor Intrusion* above its respective RI DEM regulatory threshold. Specifically, mercury was reported in the "WASTE" sample above its R DEC, but below its I/C DEC. However, soil samples collected as part of confirmatory sampling and the supplemental investigation had mercury concentrations below the laboratory method detection limit or below mercury's R DEC. Moreover, three (3) additional contaminants from EPA's list (i.e., naphthalene, 1,2,4-trimethylbenzene, and cyanide) were reported during the SI, though these concentrations were isolated to the "WASTE" soil sample and detected at levels substantially less than their respective RI DEM regulatory thresholds. As such, vapor intrusion into the proposed school building does not appear to be a significant concern at the Site.

It is important to note that while a number of PAHs were identified at the Site, no PAHs are included on the EPA's list of *Chemicals of Potential Concern for Vapor Intrusion*. PAHs are not readily volatile and therefore represent an insignificant risk of volatilization at the Site. The



potential for a contaminant to volatilize is highly dependent on its vapor pressure, molecular weight, and boiling point. The vapor pressure is the pressure exerted by a vapor in thermodynamic equilibrium with its condensed phases at a given temperature in a closed system. The higher the vapor pressure the more volatile the contaminant. Moreover, PAHs are classified as either low molecular weight (LMW) or high molecular weight (HMW) based on their chemical structure. As molecular weight increases, vapor pressure and consequently volatility decreases. The PAHs present on Site are all classified as HMW PAHs². Another indication of volatility is boiling point – the higher the boiling point of a contaminant, the lower the volatility. As a means of comparison, Table 3 provides the vapor pressure, molecular weight, and boiling point of the PAHs identified at the Site, as well as select compounds from the EPA’s list of *Chemicals of Potential Concern for Vapor Intrusion*.

Table 3: Volatilization Properties			
Compound	Vapor Pressure (Pa)	Molecular Weight (g/mole)	Boiling Point (°C)
On-Site Contaminants			
Benz(a)anthracene ^{1,2}	2.05E-05	228.3	437.8
Benzo(a)pyrene ^{1,2}	6.52E-07	252.3	495.0
Benzo(b)fluoranthene ^{1,2}	1.07E-05	252.3	481.1
Benzo(g,h,i)perylene ^{1,2}	1.33E-08	276.3	500.0
Chrysene ^{1,2}	1.04E-06	228.3	447.8
Indeno(1,2,3-cd)pyrene ^{1,2}	1.87E-08	276.3	536.1
Select EPA Chemicals of Potential Concern for Vapor Intrusion			
Acetone ³	2.40E+04	58.1	56.1
Benzene ³	1.00E+04	78.1	80.0
Cumene ³	1.07E+03	120.2	152.2
Pentane ³	5.60E+04	72.2	36.1
Propylene ³	1.49E+04	57.1	66.7
Toluene ³	2.80E+03	92.1	111.1

Sources:

- 1 - Bojes, H.K., and P.G. Pope. 2007. Characterization of EPA’s 16 priority polycyclic aromatic hydrocarbons (PAHs) in tank bottom solids and associated contaminated soils at oil exploration and production sites in Texas. *Reg. Toxicol. and Pharmacol.* 47: 288-295.
- 2 - Lundstedt, S. 2003. Analysis of PAHs and their transformation products in contaminated soil and remedial processes. PhD Dissertation, Umeå Universidad, Department of Chemistry.
- 3 - CDC NIOSH. (2013, August 05). *Niosh pocket guide to chemical hazards*. Retrieved from <http://www.cdc.gov/niosh/npd/default.html>

As indicated in Table 3 above, the EPA list of *Chemicals of Potential Concern for Vapor Intrusion* have vapor pressures approximately 8 to 12 orders of magnitude greater than the on-

² Wick, A.F., and W.L. Daniels. 2011. Remediation of PAH-Contaminated Soils and Sediments: A Literature Review. Virginia Polytechnic Institute and State University.



Site PAHs. Furthermore, the average molecular weight of the on-Site PAHs was ≈ 252 g/mole versus ≈ 80 g/mole for the select EPA chemicals and the average boiling point temperatures were $\approx 483^\circ\text{C}$ ($\approx 901^\circ\text{F}$) for target PAHs versus $\approx 84^\circ\text{C}$ ($\approx 183^\circ\text{F}$) for select EPA chemicals. Consequently, the potential risk for any of these PAHs to volatilize and impact structures within the contaminated Site is extremely low. What little risk exists at the Site would be well managed with the proposed passive sub-slab ventilation system and vapor barrier proposed beneath the new school building. Based on the volatilization properties of the PAHs identified on Site, as well as the absence of any other volatile compounds above the R DEC, and the vapor mitigation measures already proposed at the Site, *it is the opinion of PARE that the potential for hazardous substances from the contaminated Site to volatilize and impact on-Site structures is insignificant.*

Section 7.03 Q: *The potential for entrainment of Hazardous Substances from the Contaminated-Site by wind or erosion actions;*

Currently, the contaminants of concern (i.e., above R DEC) are in soil ranging from 2 feet bgs to 11 feet bgs at the Site, making the potential for entrainment by wind or erosion of the majority of the contaminants unlikely. However, shallow soil (i.e., 2 feet bgs) was reported to contain SVOCs and metals above their respective RI DEM regulatory limits. Specifically, benzo(a)pyrene was reported in shallow soil southwest of the proposed school footprint at a concentration above the I/C DEC. As the Site is under construction, the soil currently has no established vegetation, making entrainment by wind or erosion actions of the contaminant possible. However, it is noted that given the time of year that the SI was performed, the Site is generally frozen and covered in snow, making wind entrainment and erosion unlikely.

Section 7.03 R: *Detailed protocols for all fate and transport models used in the Site Investigation;*

No fate and transport modeling was conducted as part of this SI.

Section 7.03 S: *A complete list of all samples taken, the location of all samples, parameters tested for and analytical methods used during the Site Investigation;*

A detailed plan showing sample locations, depths, and contaminant concentrations in excess of the RI DEM regulatory thresholds is provided in the attached Site Plan (see Appendix B). In addition, an Analytical Data Summary Table is attached as Appendix C.



Soil Sampling

Throughout the course of the SI, PARE collected a total of twenty-seven (27) soil samples from the Site. All samples were transported in laboratory-provided glassware with chain-of-custody documentation to NETLAB for laboratory chemical analysis.

As part of the initial subsurface investigation performed between December 30, 2013 and January 6, 2014, PARE collected eight (8) confirmatory samples and one (1) waste characterization sample for chemical analysis (see Section 7.03 B).

The confirmatory samples were tested for:

- Volatile Organic Compounds (VOCs), EPA method 8260B;
- Semi-Volatile Organic Compounds (SVOCs), EPA method 8270D;
- Total Petroleum Hydrocarbons (TPH), EPA method 8100M;
- Total Arsenic, Lead, and Mercury, EPA method 6010C/7471B³; and
- Additional parameters from the EPA's list of *Chemicals of Potential Concern for Vapor Intrusion*, not included in the standard VOC and SVOC analysis.

The waste characterization sample was tested for:

- VOCs, EPA method 8260B;
- SVOCs, EPA method 8270D;
- TPH, EPA method 8100M (including TPH fingerprint analysis);
- Polychlorinated Biphenyls (PCBs), EPA method 8082A;
- Pesticides, EPA method 8081B;
- Total Metals, EPA method 6010C/7471B;
- TCLP Metals, EPA method 6010C/7470A;
- Free Liquids, EPA method 9095B;
- Percent Organics, ASTM method D2974;
- Cyanide, EPA method 9014; and
- Additional parameters from the EPA's list of *Chemicals of Potential Concern for Vapor Intrusion*, not included in the standard VOC and SVOC analysis.

A supplemental subsurface investigation was completed by PARE to identify if the site has been impacted by hazardous materials or petroleum products beyond the minor contamination identified on December 28, 2013 at Area 1. The investigation, which was performed by PARE personnel on February 4, 2014, consisted of eight (8) test pits, including two (2) test pits performed within the proposed school building footprint, and soil sampling and chemical analysis. As part of the investigation performed, PARE collected eighteen (18) discrete soil samples for chemical analysis. In general, the discrete samples consisted of one (1) shallow soil

³ CONF-2 not tested for arsenic or mercury due to excavation and stockpiling of side wall.



sample and one (1) deep soil sample collected from native material at each test pit. At some locations, a shallow sample could not be collected because the native material had already been removed and replaced with structural fill for the building. At other locations, additional samples were collected based on field screening. Each sample was collected in laboratory-provided glassware and transported to New England Testing Laboratory of North Providence, RI for chemical analysis. Analysis included:

- VOCs, EPA method 8260B;
- SVOCs, EPA method 8270D;
- TPH, EPA method 8100M;
- RCRA 8 Metals, EPA method 6010C/7471A; and
- Additional parameter from the EPA's list of *Chemicals of Potential Concern for Vapor Intrusion*, not included in the standard VOC and SVOC analysis.

Soil sampling results are summarized in Appendix C. Laboratory analytical results are provided in Appendix J.

Up until the discovery of the Release earthwork occurred at the Site that included stripping loam, removing asphalt and concrete, ledge removal beneath the building foundation, and some minor gravel excavation. To date, approximately 2,128 cubic yards of loam had been stripped from the Site and transported to J. Fisk Construction, Inc. in Seekonk, MA. In addition, approximately 435 cubic yards of concrete/asphalt and approximately 805 cubic yards of rock also went off-site to J. Fisk Construction. Approximately 182 cubic yards of gravel left the Site and were transported to Lonsdale Concrete Construction, Inc. in Cumberland, RI. In addition, approximately 1,400 cubic yards of processed gravel for structural fill were imported to the Site from J. Fisk Construction. PARE personnel were on-Site during the excavation and site work activities that occurred prior to the discovery of the Release. Up until the Release was discovered, none of the material that left the Site exhibited any obvious signs of contamination (e.g., odor, discoloration, etc.).

During excavation of the first test pit, designated as S-1, PARE personnel observed evidence of impacted soil at a depth of 5 to 6 feet on the southeastern edge of the test pit. At that depth, PARE noted a strong petroleum odor and observed soil with a dark black color. The area of impacted soil was approximately 5 feet wide by 5 feet long with a thickness of approximately 1 foot. This area has been designated as Area 2 to differentiate it from the initial release discovered on December 28, 2013 (see Site Plan). The backhoe operator excavated this soil and additional



soil around the sidewalls and bottom of the test pit until no further evidence of contaminated soil could be discerned. The dimensions of the excavation after soil removal were approximately 7 feet by 7 feet by 6 feet deep. Four (4) sidewalls and one (1) bottom confirmatory sample were collected from the excavation. Contaminated soil from the excavation was stockpiled on a polyethylene sheet on the south side of the Site with the existing contaminated soil stockpile from Area 1. Additional exploration was performed in the vicinity of the contaminated soil to verify that no other contamination existed in this area of the Site, particularly between Areas 1 and 2 to identify if there was a discernible connection between the two releases. The additional exploration area, located approximately 40 feet southeast of Area 1, measured approximately 35 feet by 18 feet by 11 feet deep at its deepest point. Contaminated soil from the excavation was stockpiled on a polyethylene sheet on the south side of the Site with the existing contaminated soil stockpile from Area 1.

In the remaining test pits, PARE personnel observed no other obvious signs of contamination (i.e., no discolored soil, no strong odors, and no signs of buried debris). While no obvious signs of contamination were identified, PARE collected soil samples for chemical analysis from each test pit. A summary of the analytical results is provided in Section 7.03 L.

Section 7.03 T: *Construction plans and development procedures for all monitoring wells. Well construction shall be consistent with the requirements of Appendix 1 of the Groundwater Quality Rules;*

No monitoring wells were installed as part of this SI.

Section 7.03 U: *Procedures for the handling, storage and disposal of wastes derived from and during the investigation if such procedures deviate from the Department's Guidelines for the Management of Investigation Derived Waste (Policy Memo 95-01);*

Investigation-derived wastes consisting of nitrile gloves and paper towels were placed in plastic bags and disposed of as solid waste off Site. Soil excavated as part of the SI was either placed back in the corresponding test pit or stockpiled on plastic sheet for future off-Site disposal.



Section 7.03 V: *A quality assurance and quality control evaluation summary report for sample handling and analytical procedures, including, but not necessarily limited to, chain-of-custody procedures and sample preservation techniques;*

Samples were collected in laboratory-provided glassware using disposable nitrile gloves and transported with chain-of-custody documentation to NETLAB in an appropriately cooled container or stored in a refrigerator at PARE's office prior to delivery to the laboratory. Chain-of-custody documentation and laboratory quality control information is provided with each analytical report in Appendix J.

All samples provided to NETLAB were extracted (where applicable) and analyzed within method specified holding times and according to NETLAB's documented Standard Operating Procedures. In addition, the results for the associated calibration, method blank, and laboratory control sample were within method specified quality control criteria for all samples tested, though it should be noted that the profile for "WASTE" prevented the quantification of the associated TPH surrogate. As a result, the surrogate recovery was reported by the laboratory as "obscured".

Section 7.03 W: *A detailed explanation of how the Public Involvement requirements set forth in Rule 7.07 were met.*

A public meeting with respect to the contamination discovered at the Site was completed on February 24, 2014 at the Blackstone Valley Prep Elementary School, located at 291 Broad Street in Cumberland, RI. The purpose of the meeting was to gather information about potential environmental contamination at the Site not previously identified as part of the environmental investigations performed at the Site. The public meeting was advertised in the Providence Journal on February 11, 2014. The Notice of a Public Meeting was provided per RIGL Chapter 23-19.14 (*The Industrial Property Remediation and Reuse Act*) and more specifically Section 23-19.14-5 (*Environmental Equity and Public Participation*).

The record of the public meeting was open for ten (10) business days after the meeting for the receipt of public comment and closed at 4:00 PM on March 10, 2014. Public comments relative to the environmental investigation of the proposed project were submitted in writing to: Ms. Ashley Blauvelt, RI Department of Environmental Management - Office of Waste Management, 235 Promenade Street, Providence, RI 02908 or by telephone at (401) 222-2797 ext. 7026. The results of the public meeting, including the comment period, have been documented in a separate



written report submitted to the RI DEM.

Section 7.03 X: Any other site-specific factor that the Director has reason to believe is necessary to make an accurate decision as to the appropriate Remedial Action to be taken at the contaminated-site.

PARE identified no significant Site-specific factors that are not addressed in other sections of this report.



SECTION 3.0 – RECOMMENDED REMEDIAL MEASURE

In accordance with Section 7.04 of the Remediation Regulations, this SIR includes a discussion of the preferred remedial alternatives to address the Site Release. This section includes three remedial alternatives, including no action/natural attenuation.

1. No Action/Natural Attenuation – No action/natural attenuation consists of leaving the discovered contaminated soil on Site in its current condition.

This remedial measure is not preferred due to the elevated concentrations of TPH, SVOCs, and metals reported in soil at the Site. Leaving the soil in place in its current condition poses an unacceptable risk to human health and the environment.

2. Complete Soil Removal and Disposal – This option involves excavating all the contaminated soil reported above the RI DEM R DEC at the Site and disposing of it at a licensed facility. For this option, the owner shall remove all the contaminated soil until contaminant concentrations are below the R DEC or until bedrock is encountered. Compliance sampling shall be conducted to confirm that contaminated soil has been satisfactorily excavated and removed. Once the soil is removed and disposed, the owner shall backfill soil with clean fill.

This option is sufficiently protective of human health and the environment because contaminant concentrations are reduced to below the R DEC. In addition, unlike a soil or geosynthetic cap and an Environmental Land Use Restriction (ELUR), this option does not limit future soil disturbance at the Site. The disadvantage of this option is that the cost to dispose of all the soil, as well as the cost to bring in clean fill, is anticipated to be prohibitive. Therefore, complete soil removal and disposal is not the preferred remedial option for the Site.

3. Selective Soil Removal and Disposal & Engineered and Institutional Controls (i.e., Soil Cap and ELUR) – This option requires that the Site owner selectively remove and dispose of soil from areas identified as contaminated during the SI, as well as cap contaminated soil located below the proposed school building and record an ELUR with



the property deed restricting future soil disturbance in this portion of the Site. This remedial measure is more protective of human health and the environment than no action/natural attenuation and more cost-effective than the complete removal and disposal of all contaminated soil discovered on Site. Therefore, **selective soil removal and disposal supplemented with engineered and institutional controls on the proposed school building footprint is the preferred remedial option for the Site.**

PARE proposes that areas of the Site outside of the school footprint with reported contaminant concentrations above their respective RI DEM regulatory thresholds be addressed through selective excavation of the contaminated soil and disposal at a licensed facility. The remedial action is proposed to be completed during construction activities, which are proposed in the vicinity of Area 1 and Area 2, as well as the area around test pit S-2, which has elevated concentrations of PAHs. These construction activities include underground utility installation, underground infiltration system installation, and landscaping and paver installation. Confirmatory samples will be collected from each of these areas subsequent to soil removal to verify compliance with the Remediation Regulations.

Confirmatory samples collected from Area 1 and Area 2 will be analyzed for SVOCs via EPA method 8270D and total Lead via EPA method 6010C based on the results of confirmatory samples collected as part of this SI. Confirmatory samples collected from the area of contaminated soil in the vicinity of S-2 will be analyzed for SVOCs via EPA method 8270D due to the elevated concentrations of PAHs, a subset of SVOCs, reported in this test pit during SI activities.

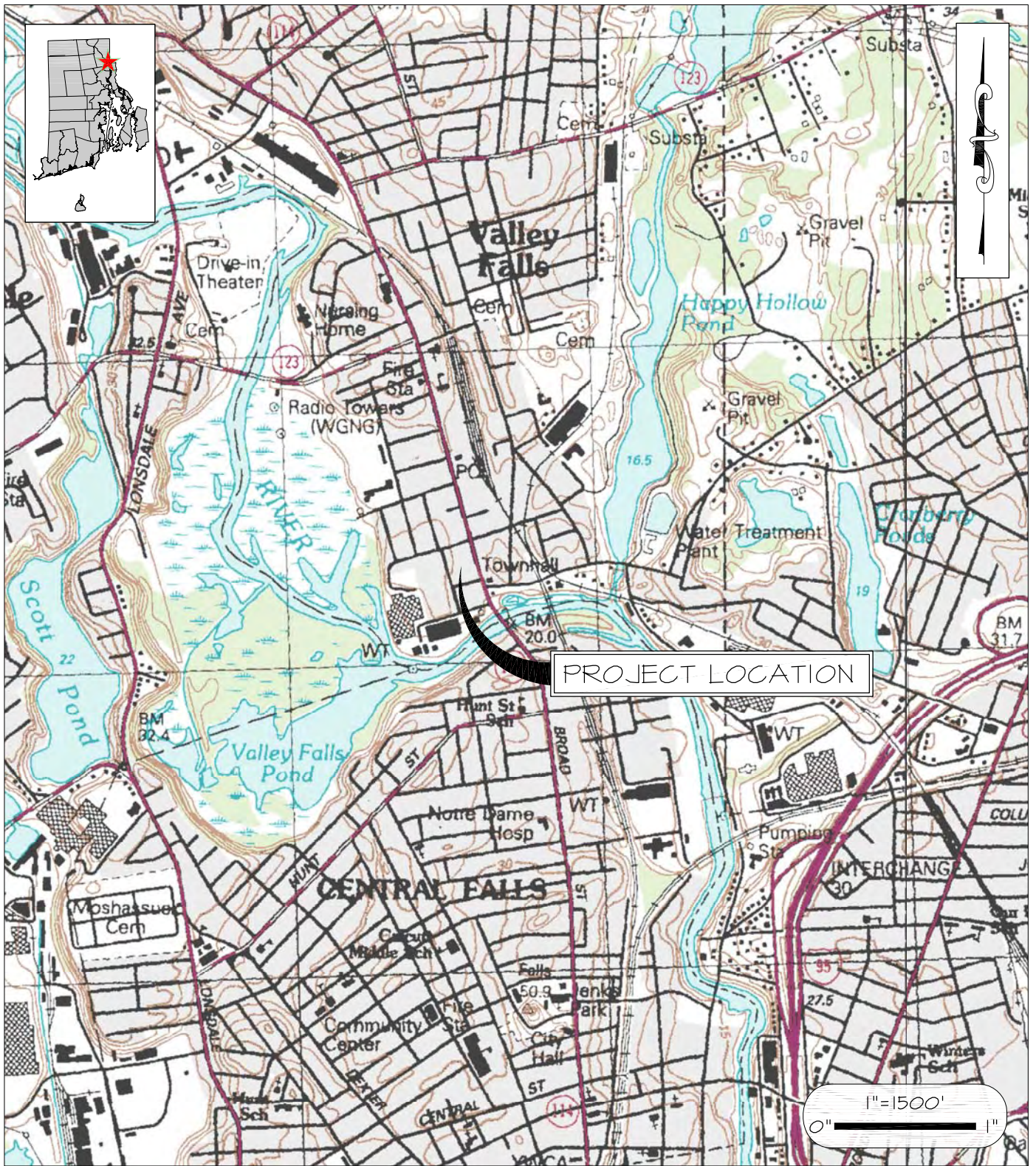
For exceedances reported below the proposed school building footprint, PARE proposes that these contaminants be addressed through capping soil in place utilizing the building foundation as an engineered control over the contaminated soil. The cap will prevent contact with the contaminated soil and limit contaminant mobility. In addition, a vapor barrier and passive sub-slab ventilation system will be installed beneath the building, as originally proposed; even though the risk for vapor intrusion at this Site appears to be low. A Proposed Remedial Option Plan is provided in Appendix L.



APPENDIX A

Locus Map





SOURCE: RIGIS - USGS 7.5 MINUTE TOPOGRAPHIC MAPS



PARE CORPORATION
 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100

PROJECT NO. 13062.09

DATE: MARCH 2014

Blackstone Valley Preparatory School
 52 Broad Street
 A.P. 2, Lot 26
LOCUS MAP
 Cumberland, Rhode Island

APPENDIX B

Site Plan



APPENDIX C

Analytical Data Summary Table



APPENDIX D

Notification of Release (w/o attachments)





January 16, 2014

Mr. Leo Hellested, P.E. - Chief
Rhode Island Department of Environmental Management
Office of Waste Management, Division of Site Remediation
235 Promenade Street
Providence, Rhode Island 02908-5767

Attn: Kelly Owens

Re: **Notification of Release**
Blackstone Valley Preparatory School
AP 2, Lot 26
52 Broad Street, Cumberland, RI
PARE Project No. 13062.09

Dear Ms. Owens:

On behalf of Civic Builders, and in accordance with Section 5.00 of the Rhode Island Department of Environmental Management (RIDEM) Remediation Regulations (Regulations), Pare Corporation (PARE) has prepared this Notification of Release (NOR) for the above referenced project. The following sections of this letter provide the required information to address Items A through J of Section 5.02 of the Regulations, Contents of Notification.

The Site is located at 52 Broad Street in Cumberland, RI and is the location of the future Blackstone Valley Preparatory Charter School. Up until construction of the new school, the Site had been a public park dating back to the late 1970s. Prior to that, it had been the site of a single family home with a detached garage. PARE performed a Phase I Environmental Site Assessment (ESA) in July 2013 for the proposed school site in accordance with ASTM E-1527-05. Based on the findings of the Phase I ESA, the Site was never known to be contaminated or ever suspected of being contaminated. The Release reported herein was discovered during the construction of a new school building and consisted of oil-impacted soil discovered approximately 8 feet below grade. As discussed in subsequent sections of this report, the Release was relatively limited in size (confined to an area less than 12 feet by 14 feet), and has, in PARE's opinion, been substantially addressed through excavation of contaminated soil.

5.02(A) – The Notifier and Owner of the Site is Civic Builders, 304 Hudson Street, New York, NY, 10013. The contact phone number is (212) 571-7260 (extension 316), and the contact person is Ms. Janelle Bosek.

5.02(B) – The property is an approximately 1.3-acre parcel located at 52 Broad Street, which is identified as Lot 26 on Cumberland Tax Assessor's Plat Map 2. At this time, the property is zoned commercial. At the time of the writing of the Phase I ESA; however, the property was zoned open space. Much of the development in the area appears to be dense and a mixture of residential and commercial uses. Industrial uses are also present in the area, particularly along the Blackstone River south and west of the site.





Prior to construction, the Site was partially cleared, with the exception of a few mature trees along the north, east, and western edges of the Site. The Site was used as a Town-owned public park with recreational facilities, including a basketball court, street hockey court, and a skate park. With the exception of the basketball courts, hockey area, and skate part, the Site was primarily lawn and landscaped areas.

Based on data reviewed for the July 2013 Phase I ESA, it appears that a two story residence and a detached automobile garage were located on Site, possibly as late as 1977. The Town took ownership of the Site in 1968, and the 1977 aerial photograph is the first aerial photograph where these structures cannot be seen, suggesting that these structures were demolished sometime between 1968 and 1977.

5.02(C) – On Saturday December 28, 2013, PARE was on-Site to observe the construction of the new Blackstone Valley Preparatory School. At that time, excavation for the construction of a continuous building footing was being performed approximately 55 feet north of the southern property line. At a depth of approximately 8 feet below existing grade, PARE personnel observed potentially contaminated soil, which appeared to be impacted by a black substance with a significant petroleum odor. The discovery of the potentially contaminated soil occurred in the vicinity of an old building foundation, which was encountered at this location and depth on that same day. Excavation was ceased until further investigation could be performed.

5.02(D) – Between Monday December 30, 2013 and Monday January 6, 2014, PARE conducted a limited subsurface investigation at the Site, which included excavation, removal, stockpiling, and sampling of the impacted soil. The initial investigation occurred on December 30, 2013 and included the excavation of approximately 40 to 45 cubic yards of soil. After PARE's initial investigation, one sidewall confirmatory sample had contaminant concentrations in excess of the RI DEM Method 1 Industrial/Commercial Direct Exposure Criteria (I/C DEC). As a result, PARE returned to the Site on January 6, 2014 to remove additional soil from the offending sidewall and collect additional confirmatory samples. The investigation included the collection of eight (8) discrete confirmatory samples from the sidewalls and bottom of the excavation, as well as one (1) composite waste characterization sample from the stockpile of excavated contaminated material. These samples are shown on the attached *Sample Location Plan* and are designated as Conf-1 through Conf-8.

PARE sent the 8 confirmatory samples and waste characterization sample with chain-of-custody documentation to New England Testing Laboratory, LLC of North Providence, Rhode Island for chemical analysis. The confirmatory samples were tested for:

- Total Lead, EPA method (6010C),
- Volatile Organic Compounds (VOCs), EPA method 8260B,
- Semi-Volatile Organic Compounds (SVOCs), EPA method 8270D, and
- Total Petroleum Hydrocarbons (TPH), method 8100M.

In addition to the above analyses, the waste characterization sample was also tested for:

- Polychlorinated Biphenyls (PCBs), EPA method 8082A,
- Pesticides, EPA method 8081B,
- Total Metals, EPA method (6010C),
- TCLP Metals, EPA method (6010C),



- Free Liquids, EPA method (9095B),
- Percent Organics, ASTM method D2974, and
- Cyanide, method 9014.

The analytical results are provided in the attached analytical summary table.

PARE collected Conf-1 through Conf-4 and the waste characterization sample (identified as "Waste" on the chain-of-custody) on December 30, 2013. Elevated concentrations of total petroleum hydrocarbon (TPH), toxicity characteristic leaching procedure (TCLP) lead and total lead were reported in the waste characterization sample. Based on a hydrocarbon fingerprint analysis, the petroleum type in the waste characterization sample was reported by the laboratory to be a mix of No.2 heating oil/diesel and No.6 fuel oil or motor oil/lubricant. In addition, elevated concentrations of some semi-volatile organic compounds (SVOCs), specifically poly-nuclear aromatic hydrocarbons (PAHs) at Conf-2 were reported. Given the elevated concentration of lead reported in the waste characterization sample, PARE had the sidewall and bottom samples re-analyzed for total lead. As with the PAH sample results, lead was reported to be elevated at sample location Conf-2. The elevated concentration of lead and most of the elevated PAH concentrations exceeded their RIDEM Method 1 Residential Direct Exposure Criteria (RDEC), while one PAH exceeded its I/C DEC. The elevated concentrations of the constituents found in Conf-2 were not reported in the other sidewall samples; Conf-1, Conf-3, or Conf-4 or the bottom sample, Conf-5.

Due to the elevated concentrations of SVOCs and total lead at Conf-2, PARE coordinated further excavation of the contaminated soil and collected additional confirmatory samples on January 6, 2014. Material was removed on the side of the excavation where Conf-2 was located, which was excavated eastward approximately three (3) feet. New confirmatory samples were collected from this sidewall and analyzed for SVOCs and total lead. Slightly elevated concentrations of lead and two SVOCs were reported in sample Conf-7, which was located near the bottom of the 11-foot deep eastern side. These constituents were reported slightly above their respective RDEC thresholds.

It should be noted that approximately 6 feet of soil below the original grade was excavated for the construction of the continuous footing prior to encountering any suspect contaminated soil. As result, much of the Site had already been lowered by 6 feet prior to encountering any suspect contaminated soil. Only a small area along the southern and eastern property line remained at the original grade. The excavation performed as part of this investigation started at the bottom of the southern and eastern sidewall embankment and went approximately 5 feet further below grade. This resulted in 11-foot sidewalls on the southern and eastern side of the excavation and 5-foot sidewalls on the northern and western sidewalls. According to the RIDEM "*Guidelines for Expedited Excavation and Disposal Response Actions*" Policy Memorandum (2012-01), pre-approved confirmation sampling requires that excavations with sidewalls deeper than 5 feet be sampled every 5 feet of wall height. Because none of the side walls were greater than 25 feet in length, PARE collected two side wall samples from each of the 11-foot side walls (Conf-1, Conf-6, Conf-7, and Conf-8), one sample from each of the 5-foot side walls (Conf-3 and Conf-4), and one bottom sample (Conf-5).

Visibly, the contaminated section of soil was encountered at a depth of 8 to 9 feet below original grade, approximately 5 feet west of a stone foundation associated with the former residence. The excavation of contaminated material was approximately 20 feet by 14 feet and 5 feet in depth. All contaminated



material was stockpiled on-Site on a layer of polyethylene sheeting and was also covered by polyethylene sheeting. Groundwater was not observed in the excavation.

5.02(E) – Based on PARE's initial assessment, it appears as though the source of the Release (i.e., elevated concentrations of lead, SVOCs, and TPH) is an isolated pocket of petroleum that was buried on-Site. PARE believes that the buried waste encountered near the foundation of the former residence has been in place since, and possibly before, the former residence was demolished between 1968 and 1977. Based on the depth of the excavation, and the elevated concentrations of contaminants at Conf-2 as discussed above, it is possible that the Release ranges in depth from 8 feet below original grade to approximately 11 feet below original grade. Based on the depth and the area in which the excavation was located, PARE's initial and preliminary estimate of contaminated soil is approximately 50 to 60 cubic yards, or approximately 75 to 110 tons. This estimate is approximate and will be verified by the hauler of the material upon disposal.

5.02(F) – At this time, all contaminated soil removed from the excavation has been stockpiled on a layer of polyethylene sheeting on the south end of the Site and has been covered by an additional layer of polyethylene sheeting (the location of this stockpile is shown on the attached *Sample Location Plan*). Based on confirmatory sampling results, it appears that the contaminated soil has been substantially removed from the excavation, with reported concentrations of TPH, total lead, SVOCs and VOCs, reported at trace or non-detect levels on three of the four sidewalls and excavation bottom. However, the reported concentrations on the east wall of the excavation for lead (175 mg/kg), chrysene (0.47 mg/kg), and benzo(a)pyrene (0.50 mg/kg), slightly exceeded their respective RDEC thresholds (150 mg/kg, 0.40 mg/kg, and 0.40 mg/kg, respectively). It should be noted that these concentrations were reported at a depth of approximately 11 feet below original grade. Sample Conf-6 was collected at a depth of approximately 3 feet below original grade on the same sidewall and had lead and PAH concentrations reported significantly below their respective RDEC criteria or below their laboratory method detection limits. As such, it appears that any residual contamination in the excavation is limited to the deepest part of the excavation and will eventually be covered with several feet of clean soil.

The Release was discovered as part of an ongoing construction project, was excavated, and currently does not represent an imminent threat to human health or the environment. It is proposed that the Release be addressed by disposing of the contaminated soil at a licensed facility (e.g., the Rhode Island Resource Recovery Corporation). As necessary for the installation of the continuous footing, the excavation shall be backfilled with clean suitable soil.

5.02(G) – An initial assessment was made as to whether or not the Release presents an Imminent Hazard as defined in Section 3.36 of the Regulations. PARE's assessment was made with respect to the future use of the property (i.e., a school), the action that has been taken to date, and the likelihood of exposure from the contaminants of concern. Based on the information obtained to date, the Release **does not** appear to:

1. Pose an immediate and substantial threat or risk of acute or chronic adverse effect on human health;
2. Pose a threat or risk of harm, which could cause immediate destruction or significant adverse impact on an Environmentally Sensitive Area or the contamination of a wellhead protection area or other drinking water source; or
3. Pose an immediate threat of fire or explosion.



PARE performed an environmental due diligence for the Site prior to construction. Specifically, PARE performed a Phase I ESA in accordance with ASTM E1527-05 to evaluate whether the Site could be considered potentially contaminated. The results of the ESA provided no direct evidence that the Site had ever been impacted by a release. The Site was not listed by the RIDEM as a State Hazardous Waste Site, LUST site, or in any other database that would indicate a past release at the property. In addition, the past use of the Site was as a public park and single family residence, which both represent relatively low risks of significant environmental concerns. The only potential risk identified during the Phase I ESA was the former presence of a gas station on the abutting parcel to the south of the Site. It is believed that groundwater in the vicinity of the Site flows in a southerly and westerly direction, which would make the former gas station downgradient from the Site. Given the proximity of the former gas station and the unknown disposition of the former USTs at the gas station, it was deemed prudent to perform an investigation of shallow groundwater beneath the southern edge of the Site.

The limited groundwater investigation was performed less as a result of a substantial concern about groundwater, but more because it could be done easily and without much expense when done as part of the project's geotechnical investigation. The limited groundwater investigation included the advancement of three geotechnical borings along the common property line between the Site and the former gas station property. At each location, bedrock was encountered at a depth ranging from 6 feet to 14 feet. Groundwater was not encountered in any of the three boring locations. The results of the limited groundwater investigation eliminated the possibility that shallow groundwater beneath the Site has been impacted by the adjacent former gas station facility.

Groundwater information reviewed by PARE indicates that the Site is located within a GB groundwater area. Groundwater that is classified by the RIDEM as GB is considered unsuitable for drinking water without treatment due to known or presumed degradation. According to Rhode Island Geographical Information System (RIGIS) data reviewed by PARE, the Site is partially located within the Lower Blackstone Moshassuck ground water reservoir and the Blackstone River Sub-basin watershed. According to RIGIS data, the Site is not located within a wellhead protection area or sole source aquifer. Therefore, based on the Site being located in a GB groundwater area and not being located within a wellhead protection area, it does not appear as though this release poses a significant threat of contaminating a wellhead protection area or other drinking water source. Given that the contamination has been substantially removed and no groundwater was encountered in the excavation, the threat that this Release will migrate to groundwater in the future is extremely low.

With regard to potential vapor intrusion, as part of the Phase I ESA performed in July 2013, PARE concluded that the potential for vapor intrusion at the Site was very low. At this time, given that the Release has been substantially addressed, the risk for vapor intrusion continues to be very low. It is noted, however, that a passive radon collection system is planned as part of this construction project. This system is planned for the sole reason that is far more cost-effective to install a passive collection system during construction than to retrofit a building after construction. At this time, there is no direct evidence that radon is going to be an issue at this Site. Should a vapor intrusion issue be discovered in the future, the passive collection system being installed for radon could be utilized to address vapor intrusion.

5.02(H) – The Release has impacted a site that is currently being developed for the future use as a school. At the time of this writing, the Site is zoned commercial. At the time of the writing of the Phase I ESA; however, the property was zoned open space.



5.02(I) – As stated above, the underlying groundwater classification at the Site is GB.

5.02(J) – At this time, it is anticipated that the aerial and vertical extent of contaminated soil was relatively discrete and limited to the excavation described in earlier sections of this letter, and that a Background Determination per Section 8.06 of the Regulations will not be required for the Site.

It is PARE's opinion that the Release is limited to the isolated pocket of petroleum-impacted soil found in an area approximately 20 feet by 14 feet. Based on the limited subsurface investigation, it does not appear that groundwater was impacted as a result of this Release. Although TPH, lead, and SVOCs were reported at relatively high concentrations in the stockpiled material (i.e., the waste characterization sample), it appears that the actual extents of contamination were limited to an isolated pocket of petroleum-impacted soil. PARE believes that this Release has been substantially addressed in the removal and the stockpiling of the impacted material on-Site. As stated above, this Release was discovered as part of an ongoing construction project. Because construction is ongoing, an expeditious review of this NOR would be appreciated.

While not part of a typical Notification of Release, PARE also reviewed Section 7.07 of the Remediation Regulations because the Site is being developed into a school. Section 7.07 was reviewed for the purposes of Public Involvement. and Part A(iii) of this section specifically states, "Whenever a site that is known to be contaminated or is suspected of being contaminated based upon its past use is considered for possible reuse as the location of a School, Child-Care Facility, or as a Recreational Facility for Public Use that supports existing or proposed Active Recreation...", and goes on to describe the requirements for public involvement. PARE does not believe that this particular Public Involvement criterion is applicable to this Site because the Site was never known or suspected to be contaminated. However, even though this public involvement requirement does not appear to be applicable to this Site, there was substantial public comment opportunity prior to construction. There were several public meetings for this project, including:

- Planning board meetings held on May 30, 2013, July 31, 2013, September 5, 2013, and September 25, 2013,
- Town council meetings held on August 31, 2013, September 4, 2013, and September 18, 2013, and
- A community meeting held on September 9, 2013 at the Lusitania Club.

Meeting minutes from these public meetings are attached.

PARE believes that the degree of Public Involvement that occurred prior to the start of construction would have generated comments pertaining to environmental issues, had any environmental concerns existed for the Site.



Ms. Kelly Owens, RIDEM

(7)

January 16, 2014

We anticipate that RIDEM will issue a Letter of Responsibility for this Site and we will provide additional information as requested. As stated above, because construction is ongoing at the Site, an expeditious review of this letter by RIDEM would help the project to move forward in a timely manner. In the meantime, should you have any questions regarding the Notification of Release, please contact us at your earliest convenience.

Sincerely,

Timothy P. Thies, P.E.
Managing Engineer

TPT/MLD/abv

Cc: Ms. Janelle Bosek – Civic Builders
Mr. Andrew Chagnon, P.E. (PARE)
Mr. George G. Palmisciano, P.E. (PARE) w/o attachments

Attachments: (1) Sample Location Plan
(2) Analytical Data Summary Table
(3) Certificates of Analysis and Chain-of-Custody Documentation
(4) Public Meeting Minutes
(5) Notification of Release Form

APPENDIX E

Tax Assessor Field Card & Registry of Deeds



Certified Revaluation Company

Town of Cumberland, RI Real Estate Data

Search Results | New Search | Site Data | Buildings | Photo & Sketch | Chain of Title

Property Information	Ownership	Valuation		
Parcel ID: 002-0026-000 Card: N/A, Vacant Location: 52 BROAD ST Zone: O-S Census: 112 State Code: Municipal Total Acres: 1.294	Owner: CUMBERLAND TOWN OF Address: 45 BROAD ST CUMBERLAND, RI 02864 Account #: 78-0000-04 Last Sale: 02/15/1968 Book/Page: 0212/0123 Grantor: CURRIER CAROLYN C Sale Price: \$0	Land: \$161,800 Building: \$29,000 Total: \$190,800		
Ownership History				
Previous Owner	Book/Page	Sale Price	Sale Date	
CURRIER CAROLYN C	0212/0123	\$0	02/15/1968	
Miscellaneous Improvements				
Outbuilding	Year Built	Dimensions	Area	RCNLD
Fencing	1990	Irregular	500sqft	\$3,600
Basketball Ct.	1990	100 x 120	12000sqft	\$9,600
Tennis Ct.	1990	110 x 120	13200sqft	\$15,800
Permit Data				
Permit Number	Issue Date	Description	Amount	
E08-1258	12/02/2008	LL POWER FOR CAMERA SYSTEM CUMBE	\$1,500	

BROAD ST DATE	RECORDED LOT NO.	A. P.	LOT NO.	OUT OF LOT	DEED BOOK	PAGE
		2	26			
	CURRIER, CAROLYN C.,					
2/15/68	CUMBERLAND, TOWN OF				212	123
4-10-02	INCREASED BY LOTS 27 & 31				1008	140

APPENDIX F

Soil Boring Logs



PROJECT <u>Blackstone Valley Prep School</u> <u>Cumberland, RI</u>	PROJECT NO. <u>13062.08</u> CHKD. BY <u>SJM</u>
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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Jay Stokes</u> INSPECTOR <u>A. Judge</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>77.0</u> DATUM <u>MSL</u> DATE START <u>7/10/2013</u> DATE END <u>7/10/2013</u>
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: <u>4"</u> OTHER: <u>Safety Hammer</u>	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME															
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DEPTH (ft)	CASING (bd/ft)	SAMPLE				TONS/FT ² OR KG/CM ²	SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in.)/ REC.	DEPTH (FT)	BLOWS/6"				
		S-1	24/10	0-2	4 6 13 13		Moist, medium dense, brown, fine to coarse SAND and fine GRAVEL, little silt.		4" TOPSOIL
5		S-2	24/6	4-6	29 49 55 52		Moist, very dense, brown, fine to coarse SAND and fine GRAVEL, little silt, trace brick.	1.	FILL
								2.	BEDROCK
10							END OF EXPLORATION @ 9'.		
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20									
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GRANULAR SOILS		COHESIVE SOILS																																
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NOTES: 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THE BORING LOGS. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

PROJECT <u>Blackstone Valley Prep School</u> <u>Cumberland, RI</u>	PROJECT NO. <u>13062.08</u> CHKD. BY <u>SJM</u>
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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Jay Stokes</u> INSPECTOR <u>A. Judge</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>77.3</u> DATUM <u>MSL</u> DATE START <u>7/8/2013</u> DATE END <u>7/8/2013</u>
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: <u>4"</u> OTHER: <u>Safety Hammer</u>	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME															
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DEPTH (ft)	CASING (bbl/ft)	SAMPLE				TONS/FT ² OR KG/CM ²	SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in./REC.)	DEPTH (FT)	BLOWS/6"				
		S-1	24/6	0-2	13 12 12 10		Medium dense, gray, medium to coarse SAND, trace silt.		3" ASPHALT
5		S-2	24/12	4-6	5 5 6 8		2A: Moist, medium dense, tan, fine to medium SAND, trace fine gravel, trace silt. 2B: Moist, medium dense, beige, fine to medium SAND, trace silt.		FILL
10		S-3	24/10	9-11	39 12 10 14		Medium dense, tan, fine to coarse SAND, little fine gravel, trace silt.		SAND
15		S-4	24/14	15-17	29 22 19 12		Dense, brown, fine to medium SAND and SILT, some fine gravel.	1.	GLACIAL DEPOSITS
20		S-5	4/4	19-19'4"	100/4"		Very weak to hard, dark gray, highly weathered to slightly weathered MUDSTONE. Dark gray, highly to moderately weathered, hard, extremely to moderately fractured SANDSTONE.	2. 3.	HIGHLY WEATHERED MUDSTONE
		C-1	24/21	22-25	14 min/ft 11 min/ft		TCR = 88%, RQD = 0%	4.	MUDSTONE AND SANDSTONE (BEDROCK)
25		C-2	12/6	25-26	11 min/ft		TCR = 50%, RQD = 0%		
							END OF EXPLORATION @ 25'.		
30									

GRANULAR SOILS	COHESIVE SOILS	REMARKS:	Burmister CLASSIFICATION
BLOWS/FT	DENSITY		
0 - 4	V. LOOSE	1. Hard material encountered @ 14' advanced roller bit to 15'. 2. Wash changed to dark gray @ 17'. 3. Bedrock @ 18'. 4. Core barrel blocked @ 24' and 25'.	TRACE
4 - 10	LOOSE		LITTLE
10 - 30	M.DENSE		SOME
30 - 50	DENSE		AND
>50	V.DENSE		
<2	V.SOFT		0 - 10%
2 - 4	SOFT		10 - 20%
4 - 8	M.STIFF		20 - 35%
8 - 15	STIFF		35 - 50%
15 - 30	V.STIFF		
>30	HARD		

NOTES:

- THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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PROJECT <u>Blackstone Valley Prep School</u> <u>Cumberland, RI</u>	PROJECT NO. <u>13062.08</u> CHKD. BY <u>SJM</u>
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BORING CO. <u>New Hampshire Boring</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u>
FOREMAN <u>Jay Stokes</u>	GROUND SURFACE ELEVATION <u>73.5</u> DATUM <u>MSL</u>
INSPECTOR <u>A. Judge</u>	DATE START <u>7/10/2013</u> DATE END <u>7/10/2013</u>

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in.	GROUNDWATER READINGS				
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN.	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING SIZE: <u>4"</u> OTHER: <u>Safety Hammer</u>					

DEPTH (ft)	CASING (b/d/ft)	SAMPLE				SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in.)/ REC.	DEPTH (FT)	BLOWS/6"			
		S-1	24/0	0-2	10 25 24 14	Moist, dense, brown, fine to medium SAND, some fine gravel, some silt.		3" ASPHALT
5		S-2	24/12	4-6	15 9 8 37	Moist, medium dense, brown, fine to medium SAND, some silt, little gravel.	1.	FILL
						END OF EXPLORATION @ 7'.	2.	BEDROCK
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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Jay Stokes</u> INSPECTOR <u>A. Judge</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>75.5</u> DATUM <u>MSL</u> DATE START <u>7/10/2013</u> DATE END <u>7/10/2013</u>
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: <u>4"</u> OTHER: <u>Safety Hammer</u>	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME															
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		NO.	PEN. (in.)/ REC.	DEPTH (FT)	BLOWS/6"				
		S-1	24/12	0-2	7 18 12 11		Medium dense to dense, brown, fine to medium SAND, little fine gravel, little silt, trace asphalt.		3" ASPHALT
5		S-2	24/6	4-6	5 4 3 7		Loose, brown, fine to medium SAND, some silt, little fine gravel, trace brick.	1.	FILL
							END OF EXPLORATION @ 8.5'.		BEDROCK
10									
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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Jay Stokes</u> INSPECTOR <u>A. Judge</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>76.3</u> DATUM <u>MSL</u> DATE START <u>7/10/2013</u> DATE END <u>7/10/2013</u>
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: <u>4"</u> OTHER: <u>Safety Hammer</u>	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr> <td> </td> <td> </td> <td style="text-align: center;">NE</td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME			NE												
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		S-1	24/12	0-2	12 22 18 18		Moist, medium dense, brown, fine to coarse GRAVEL and fine to medium SAND, little silt.		3" ASPHALT
5		S-2	24/8	4-6	11 9 9 10		Medium dense, fine to coarse SAND, some fine gravel, little silt.	1.	FILL
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GRANULAR SOILS BLOWS/FT DENSITY 0 - 4 V. LOOSE 4 - 10 LOOSE 10 - 30 M.DENSE 30 - 50 DENSE >50 V.DENSE	COHESIVE SOILS BLOWS/FT DENSITY <2 V.SOFT 2 - 4 SOFT 4 - 8 M.STIFF 8 - 15 STIFF 15 - 30 V.STIFF >30 HARD	REMARKS: 1. Bedrock @ 8.5', advanced roller bit to 9'.	BURMISTER CLASSIFICATION TRACE 0 - 10% LITTLE 10 - 20% SOME 20 - 35% AND 35 - 50% PERCENT BY WEIGHT
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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Jay Stokes</u> INSPECTOR <u>A. Judge</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>74.2</u> DATUM <u>MSL</u> DATE START <u>7/8/2013</u> DATE END <u>7/8/2013</u>
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: <u>4"</u> OTHER: <u>Safety Hammer</u>	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME															
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		NO.	PEN. (in.)/ REC.	DEPTH (FT)	BLOWS/6"	TONS/FT ² OR KG/CM ²				
		S-1	24/12	0-2	4 6 13 22	PID=3.7	Moist, medium dense, brown, fine to medium SAND, some fine gravel, little silt.	1.	4" TOPSOIL	
5		S-2	24/10	4-6	21 26 32 39	PID=21.9			Moist to wet, very dense, brown, fine GRAVEL and SAND.	FILL
10		S-3	24/8	9-11	15 23 11 32	PID=5.2			Very dense, gray, fine to medium SAND, some silt, some fine gravel.	GLACIAL DEPOSITS
15							END OF EXPLORATION @ 14'.	2.	BEDROCK	
20										
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PROJECT <u>Blackstone Valley Prep School</u> <u>Cumberland, RI</u>	PROJECT NO. <u>13062.08</u> CHKD. BY <u>SJM</u>
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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Jay Stokes</u> INSPECTOR <u>A. Judge</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>74.9</u> DATUM <u>MSL</u> DATE START <u>7/11/2013</u> DATE END <u>7/11/2013</u>
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: <u>4"</u> OTHER: <u>Safety Hammer</u>	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME															
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DEPTH (ft)	CASING (bd/ft)	SAMPLE				TONS/FT ² OR KG/CM ²	SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in.)/ REC.	DEPTH (FT)	BLOWS/6"				
		S-1	24/8	0-2	4 7		Moist, medium dense, tan, fine to coarse SAND and fine to medium GRAVEL, trace silt.	1.	6" TOPSOIL
					10 18				SAND
		S-2	24/12	2-4	28 60		Dry, very dense, gray, fractured COBBLES and coarse GRAVEL.		WEATHERED ROCK
					76 100/3"				
5		S-3	24/19	4-6	25 43		Wet to moist, very dense, gray, fractured COBBLES, some fine to coarse sand, some fine to coarse gravel, trace silt.	2.	
					11 50				
							END OF EXPLORATION @ 7'.		
10									
15									
20									
25									
30									

GRANULAR SOILS	COHESIVE SOILS	REMARKS:	BURMISTER CLASSIFICATION
BLOWS/FT	DENSITY		
0 - 4	V. LOOSE	1. Changing stratum @ 2'. 2. Advanced roller bit to 7' to competent bedrock.	TRACE 0 - 10%
4 - 10	LOOSE		LITTLE 10 - 20%
10 - 30	M.DENSE		SOME 20 - 35%
30 - 50	DENSE		AND 35 - 50%
>50	V.DENSE		PERCENT BY WEIGHT
	>30		HARD

NOTES: 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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PROJECT <u>Blackstone Valley Prep School</u> <u>Cumberland, RI</u>	PROJECT NO. <u>13062.08</u> CHKD. BY <u>SJM</u>
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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Jay Stokes</u> INSPECTOR <u>J. Costa</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>76.0</u> DATUM <u>MSL</u> DATE START <u>7/9/2013</u> DATE END <u>7/9/2013</u>
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: 4" OTHER: Safety Hammer	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME															
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DEPTH (ft)	CASING (db/ft)	SAMPLE					TONS/FT ² OR KG/CM ²	SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in.)/ REC.	DEPTH (FT)	BLOWS/6"					
		S-1	24/7	0-2	7 16		Wet, dense, black to tan, fine to coarse SAND, some coarsd gravel.		3" ASPHALT	
					20 22					
		S-2	24/7	2-4	16 14		Moist, medium dense, tan, fine to coarse GRAVEL and fine to coarse sand, trace silt.	1.	FILL	
		S-3	24/7	4-4.8	50 100/4	***				
5										
		S-4A	12/3	6-7	9 7		4A: Medium dense, gray to tan, fine to coarse SAND, trace silt. 4B: Dense, fine to coarse GRAVEL, little fine to medium SAND, trace silt, trace brick fragments, trace soft white fine material.			
		S-4B	12/14	7-8	5 30					
		C-1	60/60	8.5-13.5	11 min/ft		Slightly weathered to fresh, hard to very hard, extremely fractured to slightly fractured, medium grained, jointed, very thinly bedded SANDSTONE. horizontal dip. TCR = 100% RQD= 67%	2.	SANDSTONE	
10					9 min/ft					
					10 min/ft					
					11 min/ft					
					10 min/ft					
15							END OF EXPLORATION @ 13.5'.			
20										
25										
30										

GRANULAR SOILS	COHESIVE SOILS	REMARKS:	BURMISTER CLASSIFICATION			
BLOWS/FT	DENSITY			BLOWS/FT	DENSITY	
0 - 4	V. LOOSE	<2	V.SOFT	***Wet, very dense, gray/tan, fine to coarse GRAVEL, little fine to medium sand. 1. Hit obstruction, moved boring 3' +/- south/southwest of original, washed down to 6' and resumed sampling. 2. Began rock core @ 8.5' +/-	TRACE	0 - 10%
4 - 10	LOOSE	2 - 4	SOFT		LITTLE	10 - 20%
10 - 30	M.DENSE	4 - 8	M.STIFF		SOME	20 - 35%
30 - 50	DENSE	8 - 15	STIFF		AND	35 - 50%
>50	V.DENSE	15 - 30	V.STIFF		PERCENT BY WEIGHT	
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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Jay Stokes</u> INSPECTOR <u>A. Judge</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>74.8</u> DATUM <u>MSL</u> DATE START <u>7/11/2013</u> DATE END <u>7/11/2013</u>
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: <u>4"</u> OTHER: <u>Safety Hammer</u>	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr> <td>7/11/13</td> <td>11:00</td> <td>12.1'</td> <td>12'</td> <td>1 Hr.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME	7/11/13	11:00	12.1'	12'	1 Hr.										
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7/11/13	11:00	12.1'	12'	1 Hr.																	

DEPTH (ft)	CASING (b/d/ft)	SAMPLE				TONS/FT ² OR KG/CM ²	SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in./REC.)	DEPTH (FT)	BLOWS/6"				
		S-1	24/8	0-2	6 9 6 13		Medium dense, brown, fine to medium SAND and SILT, little fine gravel.		4" TOPSOIL
5		S-2	24/6	4-6	11 10 12 16		Medium dense, brown, fine to coarse SAND, some fine gravel, trace silt.	1.	FILL
								2.	SAND WITH GRAVEL
10		S-3	24/9	9-11	20 18 35 35		Wet to moist, very dense, tan, fine to coarse GRAVEL, some sand, little silt.		GLACIAL DEPOSITS
								3.	WEATHERED ROCK
15		S-4	24/5	14-16	21 16 17 22		Moist, dense, dark gray, highly weathered SANDSTONE.		
							END OF EXPLORATION @ 17'.		
20									
25									
30									

GRANULAR SOILS	COHESIVE SOILS	REMARKS:	BURMISTER CLASSIFICATION
BLOWS/FT DENSITY	BLOWS/FT DENSITY		1. Changing stratum @ 3' +/-. 2. Changing stratum @ 7' +/-. 3. Changing stratum @ 14' advanced roller bit to competent rock @ 17.
0 - 4 V. LOOSE	<2 V.SOFT		
4 - 10 LOOSE	2 - 4 SOFT		
10 - 30 M.DENSE	4 - 8 M.STIFF		
30 - 50 DENSE	8 - 15 STIFF		
>50 V.DENSE	15 - 30 V.STIFF		
	>30 HARD		

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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Jay Stokes</u> INSPECTOR <u>A. Judge</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>75.5</u> DATUM <u>MSL</u> DATE START <u>7/11/2013</u> DATE END <u>7/11/2013</u>
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DEPTH (ft)	CASING (bd/ft)	SAMPLE					SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in.)/ REC.	DEPTH (FT)	BLOWS/6"	TONS/FT ² OR KG/CM ²			
		S-1	24/8	0-2	4 3 4 4	PID=40.2	Topsoil.		4" TOPSOIL
									SAND WITH GRAVEL
5		S-2	24/6	4-6	24 25 30 52	PID=7.2	Dry, very dense, gray, fractured COBBLES, some coarse gravel.		
							END OF EXPLORATION @ 6'.		
10									
15									
20									
25									
30									

GRANULAR SOILS	COHESIVE SOILS	REMARKS:	BURMISTER CLASSIFICATION
BLOWS/FT	DENSITY		
0 - 4	V. LOOSE	1. Changing stratum @ 6'. 2. Auger refusal @ 6'. Possible bedrock.	TRACE
4 - 10	LOOSE		LITTLE
10 - 30	M.DENSE		SOME
30 - 50	DENSE		AND
>50	V.DENSE		

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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Todd Pentacost</u> INSPECTOR <u>M. Dunn</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>75.8</u> DATUM <u>MSL</u> DATE START <u>7/23/2013</u> DATE END <u>7/23/2013</u>
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DEPTH (ft)	CASING (b/d/ft)	SAMPLE					SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in./REC.)	DEPTH (FT)	BLOWS/6"	TONS/FT ² OR KG/CM ²			
		S-1	24/6	0-2	5 7		Moist, medium dense, brown, fine to medium SAND and fine to medium GRAVEL, trace silt.	1	3" ASPHALT
					18 11				
		S-2	24/4	2-4	9 9		Moist, dense, brown, fine GRAVEL and fine to medium SAND, trace silt.		FILL
					23 14				
5		S-3	24/12	4-6	8 9		Moist, medium dense, light brown, fine to coarse SAND and fine to medium GRAVEL.		
					9 8				
		S-4	24/20	6-8	8 7		Moist, medium dense, light brown, fine to coarse SAND, little gravel, trace silt.	2	
					14 38				
		S-5	24/20	8-10	27 25		5A: Moist, very dense, brown, fine to medium GRAVEL*	3	GLACIAL DEPOSITS
10					72 18	5B: Dry, very dense, light gray, severely weathered SANDSTONE			
		S-6	16/10	10-11'4"	15 41		Moist, very dense, dark gray, highly weath. SANDSTONE	4	WEATHERED BEDROCK
					100/4"				
						END OF EXPLORATION 11'4".			
15									
20									
25									
30									

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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Todd Pentacost</u> INSPECTOR <u>M. Dunn</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION _____ DATUM _____ DATE START <u>7/23/2013</u> DATE END <u>7/23/2013</u>
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: <u>2 1/4" H S A</u> OTHER: <u>Safety Hammer</u>	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr> <td>7/23/13</td> <td></td> <td>15'</td> <td>N/A</td> <td>0</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME	7/23/13		15'	N/A	0										
DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME																	
7/23/13		15'	N/A	0																	

DEPTH (ft)	CASING (b/d/ft)	SAMPLE					SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in./REC.)	DEPTH (FT)	BLOWS/6"	TONS/FT ² OR KG/CM ²			
		S-1	24/10	0-2	9 12		Moist, medium dense, dark brown, fine to medium GRAVEL and fine to coarse SAND, trace silt. Dry, very dense, tan, fine to coarse SAND and fine to medium GRAVEL, trace silt. Moist, very dense, tan, fine to coarse SAND and fine to medium GRAVEL, trace silt. Moist, very dense, light brown, fine to coarse SAND and fine to medium GRAVEL, trace silt. Moist, very dense, light brown, fine to coarse SAND and fine to medium GRAVEL, trace silt. 6A: Wet, very dense, dark brown, fine to coarse SAND and fine to coarse GRAVEL, trace silt. 6B: Wet, very dense, dark brown to reddish, fine to medium GRAVEL* 7A: Wet, very dense, dark brown to reddish, fine to medium GRAVEL, some fine to coarse sand, trace silt.** Very dense, dark gray, thinly bedded, highly fractured MUDSTONE. END OF EXPLORATION @ 20'.		6" TOPSOIL
		S-2	24/8	2-4	13 200				
5		S-3	24/12	4-6	31 44			FILL	
		S-4	22/18	6-7.5	51 67				
		S-5	5/5	8-8.5	100/5"			1	COBBLES & BOULDERS
								2	
15		S-6	24/18	14-16	35 31				GLACIAL DEPOSITS
		S-7	24/18	16-18				3	
		S-8	24/10	18-20	53 31			WEATHERED BEDROCK	
20					44 100/6"				
25									
30									

GRANULAR SOILS BLOWS/FT DENSITY 0 - 4 V. LOOSE 4 - 10 LOOSE 10 - 30 M.DENSE 30 - 50 DENSE >50 V.DENSE	COHESIVE SOILS BLOWS/FT DENSITY <2 V.SOFT 2 - 4 SOFT 4 - 8 M.STIFF 8 - 15 STIFF 15 - 30 V.STIFF >30 HARD	REMARKS: <ul style="list-style-type: none"> * some fine to coarse sand, trace silt. **7B: Wet, very dense, light brown, fine to medium SAND and SILT. 1. Changing stratum @ 8.5 ft. 2. Changing stratum @ 14.5 ft. 3. Changing stratum @ 18 ft. 	BURMISTER CLASSIFICATION TRACE 0 - 10% LITTLE 10 - 20% SOME 20 - 35% AND 35 - 50% PERCENT BY WEIGHT
--	--	---	---

NOTES:

- 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THE BORING LOGS. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

PROJECT <u>Blackstone Valley Prep School</u> <u>Cumberland, RI</u>	PROJECT NO. <u>13062.08</u> CHKD. BY <u>SJM</u>
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BORING CO. <u>New Hampshire Boring</u> FOREMAN <u>Todd Pentacost</u> INSPECTOR <u>M. Dunn</u>	BORING LOCATION <u>SEE EXPLORATION LOCATION PLAN</u> GROUND SURFACE ELEVATION <u>75.7</u> DATUM <u>MSL</u> DATE START <u>7/23/2013</u> DATE END <u>7/23/2013</u>
---	--

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. SAFETY HAMMER FALLING 30 in. CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING 300 lb. HAMMER FALLING 24 IN. CASING SIZE: <u>2 1/4" H S A</u> OTHER: <u>Safety Hammer</u>	GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER AT</th> <th>CASING AT</th> <th>STABILIZATION TIME</th> </tr> <tr> <td>7/23/13</td> <td></td> <td>NE</td> <td></td> <td>0</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME	7/23/13		NE		0										
DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME																	
7/23/13		NE		0																	

DEPTH (ft)	CASING (bbl/ft)	SAMPLE				TONS/FT ² OR KG/CM ²	SAMPLE DESCRIPTION	REMARKS	STRATUM DESCRIPTION
		NO.	PEN. (in.)/ REC.	DEPTH (FT)	BLOWS/6"				
		S-1	24/10	0-2	15 13		Dry, medium dense, brown, fine to medium SAND, little silt, little gravel.	4" TOPSOIL	
					13 14				
		S-2	24/8	2-4	5 4		Dry, loose, light brown, fine to medium SAND, little silt, little gravel, trace roots.	FILL	
					4 10				
5		S-3	24/15	4-6	10 20		Dry, dense, tan, fine to medium GRAVEL and fine to coarse SAND, little silt.	FILL	
					19 22				
		S-4	24/18	6-8	41 61		Moist, very dense, tan, fine to medium SAND, some fine to medium gravel, little silt.	FILL	
					50 59				
		S-5	24/20	8-10	22 35		Moist, very dense, grayish brown, fine to medium GRAVEL and fine to coarse SAND, trace silt.	GLACIAL DEPOSITS	
10					39 39				
							END OF EXPLORATION @ 12.5'.	GLACIAL DEPOSITS	
15									
							END OF EXPLORATION @ 12.5'.	GLACIAL DEPOSITS	
20									
							END OF EXPLORATION @ 12.5'.	GLACIAL DEPOSITS	
25									
							END OF EXPLORATION @ 12.5'.	GLACIAL DEPOSITS	
30									

GRANULAR SOILS	COHESIVE SOILS	REMARKS:	BURMISTER CLASSIFICATION
BLOWS/FT DENSITY	BLOWS/FT DENSITY		1. Stratum change @ 8'.6". 2. 'Hard' at 11'-12.5', auger refusal @ 12.5'. Possible bedrock.
0 - 4 V. LOOSE	<2 V.SOFT		
4 - 10 LOOSE	2 - 4 SOFT		
10 - 30 M.DENSE	4 - 8 M.STIFF		
30 - 50 DENSE	8 - 15 STIFF		
>50 V.DENSE	15 - 30 V.STIFF		
	>30 HARD		

NOTES: 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THE BORING LOGS. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

APPENDIX G

Test Pit Log



PARE CORPORATION

8 BLACKSTONE VALLEY PLACE, LINCOLN, RHODE ISLAND
 ENGINEERS *** PLANNERS *** CONSULTANTS

TEST HOLE NO **TP-1**

SHEET 1 OF 1

Property Owner: Civic Builders
 Project: 13062.00 - Blackstone Valley Prep Contractor: William Anthony Excavation
 Property Location: 52 Broad Street, Cumberland, RI Excavator: CAT 325B
 Date of Test Hole: November 21, 2013
 Soil Evaluator: Andrew Chagnon State/ PE #: RI / PE# 7858
 Weather: Sunny 45F Shaded: Yes No

SAMPLE DESCRIPTION

Horizon	Depth	Horizon Boundaries		Soil Colors		Re-Dox Description			Texture	Structure	Consistence	Percent Gravel Cobbles Stone
		Dist	Topo	Matrix	Re-Dox Features	Ab.	S.	Con.				
A	0-5"	-	-	10YR 3/2					Top Soil			
FILL	5"-1'9"	-	-	10YR 3/2					loamy sand			15-35% Gravel
B	1'9"-3'	-	-	10YR 4/6					loamy sand			15-35% Gravel 15-35% Cobbles
C1	3'-10'			10YR 6/4					medium sand			0-10% Bolders 15-35% Stones 15-35% Cobbles
CR	10'-11'								weathered bedrock			

Soil Class: N/A Total Depth of Test Hole: 11'
 Depth to Groundwater or Seepage: None Observed Depth to Impervious or Limiting Layer: N/A
 Estimated Seasonal High Water Table: No watertable or evidence of water table was observed.

COMMENTS:

APPENDIX H

Field Reports





FIELD SUMMARY





FIELD SUMMARY



FIELD SUMMARY



FIELD SUMMARY



FIELD SUMMARY



FIELD SUMMARY







FIELD SUMMARY

- PARE sent the five (8) confirmatory samples and thirteen (13) test pit soil samples with chain-of-custody documentation to New England Testing Laboratory (NETLAB) of North Providence, Rhode Island for the following chemical analyses:
 - Volatile Organic Compounds (VOCs), EPA method 8260B;
 - Semi-Volatile Organic Compounds (SVOCs), EPA method 8270D;
 - Total Petroleum Hydrocarbons (TPH), EPA method 8100M;
 - RCRA 8 Metals, EPA method 6010C/7471B; and
 - RIDEM Chemicals of Potential Concern for Vapor Intrusion.
- Jar headspace analytical screening of each soil sample was also performed using a PID to screen for TVOCs. Sample results indicated insignificant levels of TVOC in all soil samples (i.e., 0.2 ppm or less)

INFORMATION OR ACTION REQUIRED:

- **Receive sampling results from NETLAB**

ATTACHMENTS: See Photos

The undersigned left the site at 1415.

A handwritten signature in blue ink that reads "Shane P. Driscoll".

Shane P. Driscoll, Senior Engineer



Description: The contaminated soil is located approximately 5 to 6 feet bgs and found on the bottom right portion of the photograph. A 4-inch clay pipe is located approximately 2 feet bgs and found on the top left portion of the photograph.



Description: The photograph depicts the excavation of contaminated soil and the advancement of the soil excavation in the vicinity of the contaminated soil to verify that no other contamination exists in this area of the site.



Description: Soil that contained evidence of contamination was stockpiled on a polyethylene sheet on the south side of the site with the existing contaminated soil stockpile.



FIELD SUMMARY

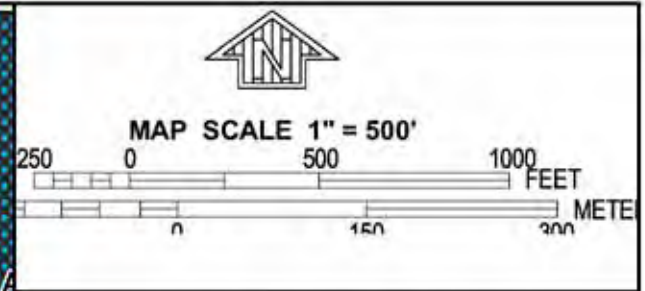
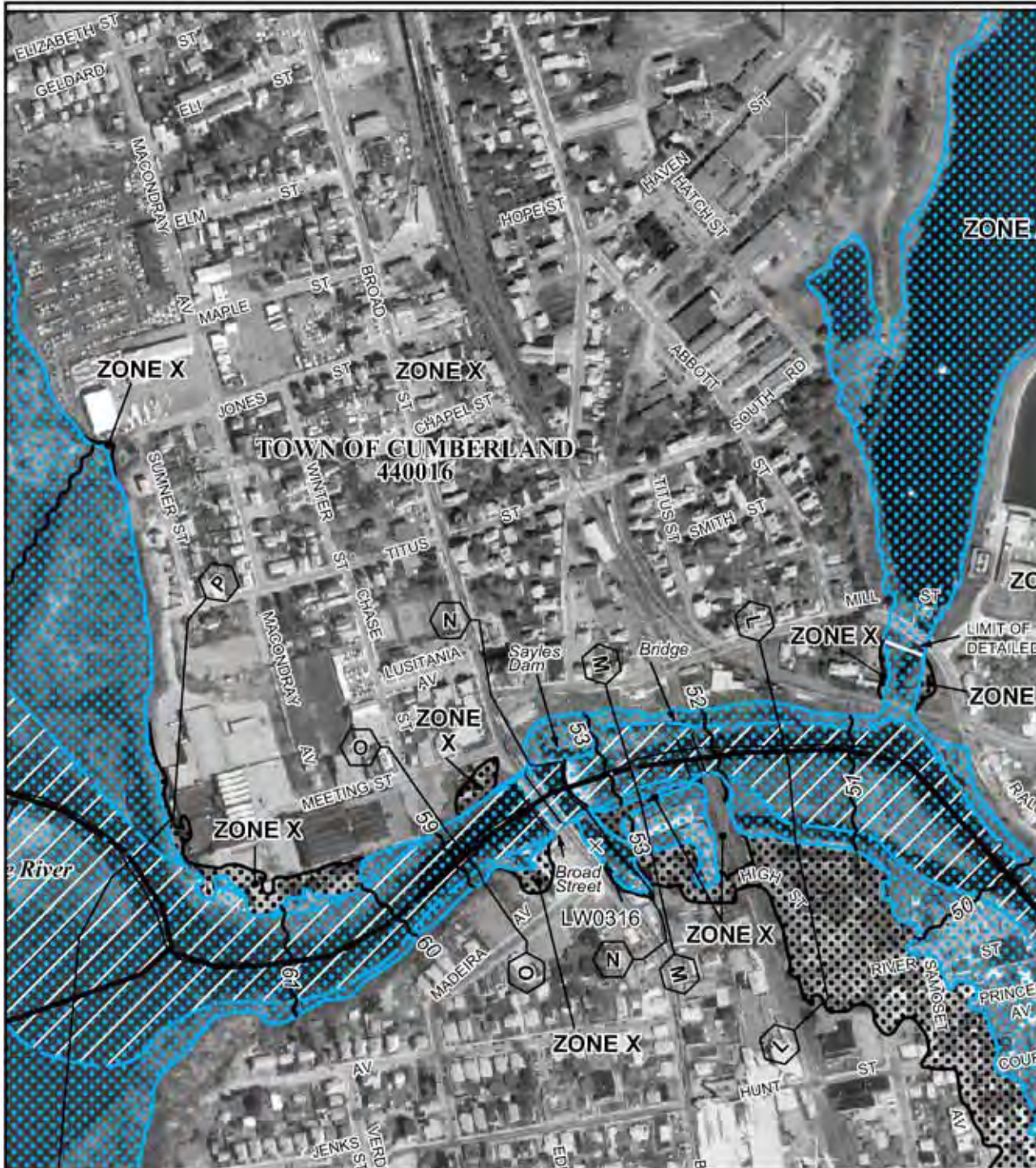


Description: Contaminated soil stockpiled and encapsulated in polyethylene sheeting on the south side of the site.

APPENDIX I

FEMA Map





NFIP PANEL 0194G

FIRM
FLOOD INSURANCE RATE MAP
PROVIDENCE COUNTY,
RHODE ISLAND
(ALL JURISDICTIONS)

PANEL 194 OF 451
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CENTRAL FALLS, CITY OF	445394	0194	G
CUMBERLAND, TOWN OF	440016	0194	G
LINCOLN, TOWN OF	445400	0194	G
PAWTUCKET, CITY OF	440022	0194	G

Notice to User: The Map Number shown below should be used when placing map orders, the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
44007C0194G
EFFECTIVE DATE
MARCH 2, 2009

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

APPENDIX J

Laboratory Analytical Results



**REPORT OF ANALYTICAL RESULTS****NETLAB Case Number Z1230-23**

Prepared for:

Attn: M. Dowdell
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

Report Date: January 3, 2014

Reviewed By:

Richard Warila
Laboratory Director

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, RI 02904

(401) 353-3420

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on December 30, 2013. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is Z1230-23

Custody records are included in this report.

Site: CB-BVP-Contaminated Soil

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
Conf-1	12/30/13	Soil	Table II
Conf-2	12/30/13	Soil	Table II
Conf-3	12/30/13	Soil	Table II
Conf-4	12/30/13	Soil	Table II
Waste	12/30/13	Soil	Table III

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Petroleum Hydrocarbons	3550C	8100M
Semi-volatile Organic Compounds	3550C	8270D
Volatile Organic Compounds	5035	8260B

TABLE III, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Cyanide	NA	9014
Free Liquids	NA	9095B
Total Organic Matter	NA	ASTM D2974
Total Petroleum Hydrocarbons	3550C	8100M
PCB	3541	8082A
Pesticides	3541	8081B
Semi-volatile Organic Compounds	3550C	8270D
Volatile Organic Compounds	5035	8260B
Total Metals		
Arsenic	3050B	6010C
Barium	3050B	6010C
Cadmium	3050B	6010C
Chromium	3050B	6010C
Lead	3050B	6010C
Mercury	NA	7471B
Selenium	3050B	6010C
Silver	3050B	6010C
TCLP Extraction	1311	NA
Arsenic	3010A	6010C
Barium	3010A	6010C
Cadmium	3010A	6010C
Chromium	3010A	6010C
Lead	3010A	6010C
Mercury	NA	7470A
Selenium	3010A	6010C
Silver	7760	6010C

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

PCBs

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Pesticides

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Total Petroleum Hydrocarbons

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

The profile for sample "Waste" prevented the quantification of the associated surrogate. As a result, the surrogate recovery was reported as "obscured".

Wet Chemistry

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures.

Volatile Organic Compounds:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria. The compounds listed in Table 1 were screened by method 8260B utilizing ion reconstruction and NIST library search parameters. There were no detections of Table 1 compounds to an estimated detection limit of 100 ug/Kg.

Semi-volatile Compounds

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria. The compounds listed in Table 2 were screened by method 8270D utilizing ion reconstruction and NIST library search parameters. There were no detections of Table 2 compounds to an estimated detection limit of 500 ug/Kg.

Table 1

Acetaldehyde	Nitroso-di-N-butylamine, N
Acetonitrile	Nonane, n-
Acrolein	Pentane, n-
Acrylonitrile	Propyl benzene
Allyl Chloride	Tetrafluoroethane, 1,1,1,2-
Bromo-2-chloroethane, 1-	Tetrahydrofuran
Bromobenzene	Trichloro-1,2,2-trifluoroethane, 1,1,2-
Butadiene, 1,3-	Trichloropropene, 1,2,3-
Chloro-1,1-difluoroethane, 1-	Trimethylbenzene, 1,2,3-
Chloro-1,3-butadiene, 2-	Trimethylbenzene, 1,2,4-
Chlorodifluoromethane	Vinyl Bromide
Cumene(isopropylbenzene)	Acetone Cyanohydrin
Cyclohexane	Chlorobenzotrifluoride, 4-
Cyclohexene	Chloropicrin
Difluoroethane, 1,1-	Dihydrosafrole
Dimethylvinylchloride	Epoxybutane, 1,2-
Epichlorohydrin	Triethylamine
Ethyl Methacrylate	Ethyleneimine
Ethylene Oxide	Methyl Isocyanate
Hexane, N-	Nitromethane
Methacrylonitrile	Propionaldehyde
Methyl Acrylate	Propylene
Methyl Methacrylate	
Methyl Styrene (Mixed Isomers)	
Nitropropane, 2-	

Table 2

Biphenyl, 1,1'	Hexamethylene Diisocyanate, 1,6-
Bis(2-chloro-1-methylethyl) ether	Dicyclopentadiene
Chloromethyl Methyl Ether	

Waste

Parameter	Result	Reporting Limit	Date Analyzed
Cyanide, mg/kg*	4.07	0.20	12/31/13
Free Liquids	No Free Liquids	NA	12/31/13
Total Organic Matter, %	1.71	NA	1/2/14

ND = Not Detected

NA = Not Applicable

*Dry Weight Basis

Sample: Waste

Case No. Z1230-23

Date TCLP Extracted: 12/31/13

Date Analyzed*: 1/2/14

<u>TCLP Extractable Metals</u>	<u>Result, mg/L</u>	<u>Regulatory Limit, mg/L</u>
Arsenic	<0.02	5.0
Barium	<0.5	100.0
Cadmium	<0.01	1.0
Chromium	<0.02	5.0
Lead	3.102	5.0
Mercury	<0.002	0.2
Selenium	<0.05	1.0
Silver	<0.02	5.0

* Date Completed

Sample: Conf-1		Analyst's Initials: BJ
Case No. Z1230-23		
Date Collected: 12/30/13		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3550C	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	12/30/13	12/31/13
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	21
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	83	62-151

Sample: Conf-2		Analyst's Initials: BJ
Case No. Z1230-23		
Date Collected: 12/30/13		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3550C	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	12/30/13	12/31/13
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	163	22
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	75	62-151

ND = Not Detected

*Dry Weight Basis

Sample: Conf-3		Analyst's Initials: BJ
Case No. Z1230-23		
Date Collected: 12/30/13		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3550C	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	12/30/13	12/31/13
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	20
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	95	62-151

Sample: Conf-4		Analyst's Initials: BJ
Case No. Z1230-23		
Date Collected: 12/30/13		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3550C	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	12/30/13	12/31/13
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	56	22
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	101	62-151

ND = Not Detected

*Dry Weight Basis

Sample: Waste		Analyst's Initials: BJ
Case No. Z1230-23		
Date Collected: 12/30/13		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3550C	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	12/30/13	12/31/13
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	2,320	33
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	Obscured	62-151

ND = Not Detected

*Dry Weight Basis

METALS RESULTS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

New England Testing Laboratory, Inc.

METALS RESULTS



Case Number: Z1230-23
 Sample ID: WASTE
 Date collected: 12/30/13
 Matrix: SOIL
 Solids, %: 60.27
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010C	12.3	1.11	mg/kg	12/31/13	1/2/14
Barium	7440-39-3	3050B	6010C	91.5	0.55	mg/kg	12/31/13	1/2/14
Cadmium	7440-43-9	3050B	6010C	3.42	0.55	mg/kg	12/31/13	1/2/14
Chromium	7440-47-3	3050B	6010C	16.7	0.55	mg/kg	12/31/13	1/2/14
Lead	7439-92-1	3050B	6010C	1710	0.55	mg/kg	12/31/13	1/2/14
Mercury	7439-97-6	NA	7471B	38.40	5.139	mg/kg	1/2/14	1/2/14
Selenium	7782-49-2	3050B	6010C	ND	1.11	mg/kg	12/31/13	1/2/14
Silver	7440-22-4	3050B	6010C	7.64	0.55	mg/kg	12/31/13	1/2/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank
 Matrix SOIL
 Solids, % 100
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	ND	0.67	mg/kg	12/31/13	1/2/14
Barium	7440-39-3	3050B	6010C	ND	0.33	mg/kg	12/31/13	1/2/14
Cadmium	7440-43-9	3050B	6010C	ND	0.33	mg/kg	12/31/13	1/2/14
Chromium	7440-47-3	3050B	6010C	ND	0.33	mg/kg	12/31/13	1/2/14
Lead	7439-92-1	3050B	6010C	ND	0.33	mg/kg	12/31/13	1/2/14
Mercury	7439-97-6	NA	7471B	ND	0.067	mg/kg	1/2/14	1/2/14
Selenium	7782-49-2	3050B	6010C	ND	0.67	mg/kg	12/31/13	1/2/14
Silver	7440-22-4	3050B	6010C	ND	0.33	mg/kg	12/31/13	1/2/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

LABORATORY CONTROL SAMPLE RECOVERY

Internal

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Arsenic	13.3	13.5	mg/kg	101	80	120	1/2/14
Barium	66.7	63.3	mg/kg	95	80	115	1/2/14
Cadmium	66.7	62.6	mg/kg	94	80	113	1/2/14
Chromium	66.7	61.3	mg/kg	92	80	115	1/2/14
Lead	66.7	62.7	mg/kg	94	80	114	1/2/14
Mercury	0.133	0.135	mg/kg	101	80	120	1/2/14
Selenium	13.3	14.0	mg/kg	105	80	120	1/2/14
Silver	33.3	32.6	mg/kg	98	80	120	1/2/14

RESULTS: PCBs

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

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Sample: Waste		Analyst's Initials: BJ
Case No.: Z1230-23		
Date Collected: 12/30/13		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3541	12/31/13	12/31/13
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	80	45-109
DCBP	73	53-127

*Dry Weight Basis
N.D. = Not Detected

Sample: Method Blank		Analyst's Initials: BJ
Case No.: Z1230-23		
Date Collected: NA		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3541	12/31/13	12/31/13
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg (ppb)	Reporting Limit ug/kg (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	92	45-109
DCBP	99	53-127

N.D. = Not Detected

PCB Laboratory Control Spike

Subject: PCB	Date Extracted			Date Analyzed
Prep Method: EPA 3541	12/31/13			12/23/13
Analytical Method: EPA 8082A				
Compound	Amount Spiked mg/kg	Result mg/kg	Recovery %	Recovery Limits
Aroclor 1016	0.500	0.467	93	53-140
Aroclor 1260	0.500	0.514	103	60-126
Surrogates:				
Compound	% Recovery	Limits		
TCMX	87	45-109		
DCBP	93	53-127		

RESULTS: PESTICIDES

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

Sample: Waste		Analyst's Initials: BJ
Case No.: Z1230-23		
Date Collected: 12/30/13		
Sample Matrix: Soil		
Subject: Pesticides	Date Extracted	Date Analyzed
Prep Method: EPA 3541	12/31/13	1/2/14
Analytical Method: EPA 8081B		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aldrin	N.D.	5
alpha-BHC	N.D.	5
beta-BHC	N.D.	5
delta-BHC	N.D.	5
gamma-BHC	N.D.	5
alpha-Chlordane	N.D.	5
gamma-Chlordane	N.D.	5
Chlordane	N.D.	50
4,4'-DDD	N.D.	5
4,4'-DDE	N.D.	5
4,4'-DDT	N.D.	5
Dieldrin	N.D.	5
Endosulfan I	N.D.	5
Endosulfan II	N.D.	5
Endosulfan sulfate	N.D.	5
Endrin	N.D.	5
Endrin aldehyde	N.D.	5
Endrin Ketone	N.D.	5
Heptachlor	N.D.	5
Heptachlor epoxide	N.D.	5
Methoxychlor	N.D.	5
Toxaphene	N.D.	50
Surrogates:		
Compound	% Recovery	Limits
TCMX	68	51-109
DCBP	76	42-112

*Dry Weight Basis
N.D. = Not Detected

Sample: Method Blank		Analyst's Initials: BJ
Case No.: Z1230-23		
Date Collected: N.A.		
Sample Matrix: Soil		
Subject: Pesticides	Date Extracted	Date Analyzed
Prep Method: EPA 3541	12/31/13	1/2/14
Analytical Method: EPA 8081B		
Compound	Concentration ug/kg (ppb)	Reporting Limit ug/kg (ppb)
Aldrin	N.D.	5
alpha-BHC	N.D.	5
beta-BHC	N.D.	5
delta-BHC	N.D.	5
gamma-BHC	N.D.	5
alpha-Chlordane	N.D.	5
gamma-Chlordane	N.D.	5
Chlordane	N.D.	50
4,4'-DDD	N.D.	5
4,4'-DDE	N.D.	5
4,4'-DDT	N.D.	5
Dieldrin	N.D.	5
Endosulfan I	N.D.	5
Endosulfan II	N.D.	5
Endosulfan sulfate	N.D.	5
Endrin	N.D.	5
Endrin aldehyde	N.D.	5
Endrin Ketone	N.D.	5
Heptachlor	N.D.	5
Heptachlor epoxide	N.D.	5
Methoxychlor	N.D.	5
Toxaphene	N.D.	50
Surrogates:		
Compound	% Recovery	Limits
TCMX	95	51-109
DCBP	88	42-112

*Dry Weight Basis
N.D. = Not Detected

Pesticide Laboratory Control Spike



Date Collected: NA				
Sample Matrix: SOIL				
Subject: Pesticides	Date Extracted			Date Analyzed
Prep Method: EPA 3541	12/31/2013			1/2/2014
Analytical Method: EPA 8081A				
Compound	Spike Amount ng/mL (ppb)	Recovery ng/mL (ppb)	Recovery %	Recovery Limits
alpha-BHC	40	31.5	79	54-110
gamma-BHC	40	32.2	81	57-107
beta-BHC	40	32.7	82	58-114
delta-BHC	40	21.1	53	40-111
Heptachlor	40	32.4	81	55-113
Aldrin	40	31.0	77	53-114
Heptachlor epoxide	40	34.5	86	53-112
gamma-Chlordane	40	34.1	85	55-111
alpha-Chlordane	40	33.6	84	54-114
4,4'-DDE	40	37.4	94	54-117
Endosulfan I	40	33.6	84	52-113
Dieldrin	40	31.7	79	55-113
Endrin	40	30.1	75	50-127
4,4'-DDD	40	38.4	96	57-123
Endosulfan II	40	30.4	76	53-111
4,4'-DDT	40	33.9	85	52-126
Endrin aldehyde	40	41.5	104	40-136
Methoxychlor	40	31.9	80	67-128
Endosulfan sulfate	40	28.6	71	57-106
Endrin Ketone	40	34.9	87	51-119
Surrogates:				
Compound	% Recovery	Limits		
TCMX	92	51-109		
DCBP	83	42-112		



RESULTS: SEMIVOLATILE ORGANIC COMPOUNDS

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Conf-1
 Matrix: (soil/water/air) SOIL Lab File ID: B123106.D
 Sample wt/vol: 20.434 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 10.65 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		160	U
110-86-1	Pyridine		110	U
108-95-2	Phenol		110	U
62-53-3	Aniline		110	U
111-44-4	bis(2-Chloroethyl)ether		110	U
95-57-8	2-Chlorophenol		110	U
541-73-1	1,3-Dichlorobenzene		110	U
106-46-7	1,4-Dichlorobenzene		110	U
95-50-1	1,2-Dichlorobenzene		110	U
95-48-7	2-Methylphenol		110	U
108-60-1	bis(2-chloroisopropyl)ether		110	U
106-44-5	3- & 4-Methylphenol		220	U
621-64-7	n-Nitroso-di-n-propylamine		110	U
67-72-1	Hexachloroethane		110	U
98-95-3	Nitrobenzene		110	U
78-59-1	Isophorone		110	U
88-75-5	2-Nitrophenol		270	U
105-67-9	2,4-Dimethylphenol		550	U
65-85-0	Benzoic acid		820	U
111-91-1	bis(2-Chloroethoxy)methane		110	U
120-83-2	2,4-Dichlorophenol		270	U
120-82-1	1,2,4-Trichlorobenzene		110	U
91-20-3	Naphthalene		110	U
106-47-8	4-Chloroaniline		110	U
87-68-3	Hexachlorobutadiene		110	U
59-50-7	4-Chloro-3-methylphenol		270	U
91-57-6	2-Methylnaphthalene		110	U
77-47-4	Hexachlorocyclopentadiene		110	U
88-06-2	2,4,6-Trichlorophenol		110	U
95-95-4	2,4,5-Trichlorophenol		110	U
91-58-7	2-Chloronaphthalene		110	U
88-74-4	2-Nitroaniline		110	U
131-11-3	Dimethyl phthalate		110	U
208-96-8	Acenaphthylene		110	U
606-20-2	2,6-Dinitrotoluene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Conf-1
 Matrix: (soil/water/air) SOIL Lab File ID: B123106.D
 Sample wt/vol: 20.434 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 10.65 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		110	U
83-32-9	Acenaphthene		110	U
51-28-5	2,4-Dinitrophenol		270	U
100-02-7	4-Nitrophenol		270	U
132-64-9	Dibenzofuran		110	U
121-14-2	2,4-Dinitrotoluene		110	U
84-66-2	Diethyl phthalate		110	U
86-73-7	Fluorene		110	U
7005-72-3	4-Chlorophenyl phenyl ether		110	U
100-01-6	4-Nitroaniline		110	U
534-52-1	4,6-Dinitro-2-methylphenol		270	U
86-30-6	n-Nitrosodiphenylamine		110	U
101-55-3	4-Bromophenyl phenyl ether		110	U
118-74-1	Hexachlorobenzene		110	U
87-86-5	Pentachlorophenol		270	U
85-01-8	Phenanthrene		110	U
120-12-7	Anthracene		110	U
84-74-2	Di-n-butylphthalate		160	U
206-44-0	Fluoranthene		110	U
92-87-5	Benzidine		3300	U
129-00-0	Pyrene		110	U
85-68-7	Butyl benzyl phthalate		110	U
91-94-1	3,3'-Dichlorobenzidine		270	U
56-55-3	Benzo(a)anthracene		110	U
218-01-9	Chrysene		110	U
117-81-7	bis(2-Ethylhexyl)phthalate		160	U
117-84-0	Di-n-octyl phthalate		160	U
205-99-2	Benzo(b)fluoranthene		110	U
207-08-9	Benzo(k)fluoranthene		110	U
50-32-8	Benzo(a)pyrene		110	U
53-70-3	Dibenz(a,h)anthracene		110	U
193-39-5	Indeno(1,2,3-cd)pyrene		110	U
191-24-2	Benzo(g,h,i)perylene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Conf-2
 Matrix: (soil/water/air) SOIL Lab File ID: B123109.D
 Sample wt/vol: 20.187 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 8.51 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		160	U
110-86-1	Pyridine		110	U
108-95-2	Phenol		110	U
62-53-3	Aniline		110	U
111-44-4	bis(2-Chloroethyl)ether		110	U
95-57-8	2-Chlorophenol		110	U
541-73-1	1,3-Dichlorobenzene		110	U
106-46-7	1,4-Dichlorobenzene		110	U
95-50-1	1,2-Dichlorobenzene		110	U
95-48-7	2-Methylphenol		110	U
108-60-1	bis(2-chloroisopropyl)ether		110	U
106-44-5	3- & 4-Methylphenol		220	U
621-64-7	n-Nitroso-di-n-propylamine		110	U
67-72-1	Hexachloroethane		110	U
98-95-3	Nitrobenzene		110	U
78-59-1	Isophorone		110	U
88-75-5	2-Nitrophenol		270	U
105-67-9	2,4-Dimethylphenol		540	U
65-85-0	Benzoic acid		820	U
111-91-1	bis(2-Chloroethoxy)methane		110	U
120-83-2	2,4-Dichlorophenol		270	U
120-82-1	1,2,4-Trichlorobenzene		110	U
91-20-3	Naphthalene		110	U
106-47-8	4-Chloroaniline		110	U
87-68-3	Hexachlorobutadiene		110	U
59-50-7	4-Chloro-3-methylphenol		270	U
91-57-6	2-Methylnaphthalene		110	U
77-47-4	Hexachlorocyclopentadiene		110	U
88-06-2	2,4,6-Trichlorophenol		110	U
95-95-4	2,4,5-Trichlorophenol		110	U
91-58-7	2-Chloronaphthalene		110	U
88-74-4	2-Nitroaniline		110	U
131-11-3	Dimethyl phthalate		110	U
208-96-8	Acenaphthylene		140	
606-20-2	2,6-Dinitrotoluene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Conf-2
 Matrix: (soil/water/air) SOIL Lab File ID: B123109.D
 Sample wt/vol: 20.187 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 8.51 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		110	U
83-32-9	Acenaphthene		110	U
51-28-5	2,4-Dinitrophenol		270	U
100-02-7	4-Nitrophenol		270	U
132-64-9	Dibenzofuran		110	U
121-14-2	2,4-Dinitrotoluene		110	U
84-66-2	Diethyl phthalate		110	U
86-73-7	Fluorene		110	U
7005-72-3	4-Chlorophenyl phenyl ether		110	U
100-01-6	4-Nitroaniline		110	U
534-52-1	4,6-Dinitro-2-methylphenol		270	U
86-30-6	n-Nitrosodiphenylamine		110	U
101-55-3	4-Bromophenyl phenyl ether		110	U
118-74-1	Hexachlorobenzene		110	U
87-86-5	Pentachlorophenol		270	U
85-01-8	Phenanthrene		1100	
120-12-7	Anthracene		280	
84-74-2	Di-n-butylphthalate		160	U
206-44-0	Fluoranthene		2700	
92-87-5	Benzidine		3300	U
129-00-0	Pyrene		2700	
85-68-7	Butyl benzyl phthalate		110	U
91-94-1	3,3'-Dichlorobenzidine		270	U
56-55-3	Benzo(a)anthracene		1500	
218-01-9	Chrysene		1600	
117-81-7	bis(2-Ethylhexyl)phthalate		160	U
117-84-0	Di-n-octyl phthalate		160	U
205-99-2	Benzo(b)fluoranthene		2200	
207-08-9	Benzo(k)fluoranthene		740	
50-32-8	Benzo(a)pyrene		1800	
53-70-3	Dibenz(a,h)anthracene		320	
193-39-5	Indeno(1,2,3-cd)pyrene		1400	
191-24-2	Benzo(g,h,i)perylene		1100	

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Conf-3
 Matrix: (soil/water/air) SOIL Lab File ID: B123107.D
 Sample wt/vol: 20.58 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 4.14 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		150	U
110-86-1	Pyridine		100	U
108-95-2	Phenol		100	U
62-53-3	Aniline		100	U
111-44-4	bis(2-Chloroethyl)ether		100	U
95-57-8	2-Chlorophenol		100	U
541-73-1	1,3-Dichlorobenzene		100	U
106-46-7	1,4-Dichlorobenzene		100	U
95-50-1	1,2-Dichlorobenzene		100	U
95-48-7	2-Methylphenol		100	U
108-60-1	bis(2-chloroisopropyl)ether		100	U
106-44-5	3- & 4-Methylphenol		200	U
621-64-7	n-Nitroso-di-n-propylamine		100	U
67-72-1	Hexachloroethane		100	U
98-95-3	Nitrobenzene		100	U
78-59-1	Isophorone		100	U
88-75-5	2-Nitrophenol		250	U
105-67-9	2,4-Dimethylphenol		510	U
65-85-0	Benzoic acid		760	U
111-91-1	bis(2-Chloroethoxy)methane		100	U
120-83-2	2,4-Dichlorophenol		250	U
120-82-1	1,2,4-Trichlorobenzene		100	U
91-20-3	Naphthalene		100	U
106-47-8	4-Chloroaniline		100	U
87-68-3	Hexachlorobutadiene		100	U
59-50-7	4-Chloro-3-methylphenol		250	U
91-57-6	2-Methylnaphthalene		100	U
77-47-4	Hexachlorocyclopentadiene		100	U
88-06-2	2,4,6-Trichlorophenol		100	U
95-95-4	2,4,5-Trichlorophenol		100	U
91-58-7	2-Chloronaphthalene		100	U
88-74-4	2-Nitroaniline		100	U
131-11-3	Dimethyl phthalate		100	U
208-96-8	Acenaphthylene		100	U
606-20-2	2,6-Dinitrotoluene		100	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Conf-3
 Matrix: (soil/water/air) SOIL Lab File ID: B123107.D
 Sample wt/vol: 20.58 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 4.14 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		100	U
83-32-9	Acenaphthene		100	U
51-28-5	2,4-Dinitrophenol		250	U
100-02-7	4-Nitrophenol		250	U
132-64-9	Dibenzofuran		100	U
121-14-2	2,4-Dinitrotoluene		100	U
84-66-2	Diethyl phthalate		100	U
86-73-7	Fluorene		100	U
7005-72-3	4-Chlorophenyl phenyl ether		100	U
100-01-6	4-Nitroaniline		100	U
534-52-1	4,6-Dinitro-2-methylphenol		250	U
86-30-6	n-Nitrosodiphenylamine		100	U
101-55-3	4-Bromophenyl phenyl ether		100	U
118-74-1	Hexachlorobenzene		100	U
87-86-5	Pentachlorophenol		250	U
85-01-8	Phenanthrene		100	U
120-12-7	Anthracene		100	U
84-74-2	Di-n-butylphthalate		150	U
206-44-0	Fluoranthene		100	U
92-87-5	Benzidine		3000	U
129-00-0	Pyrene		100	U
85-68-7	Butyl benzyl phthalate		100	U
91-94-1	3,3'-Dichlorobenzidine		250	U
56-55-3	Benzo(a)anthracene		100	U
218-01-9	Chrysene		100	U
117-81-7	bis(2-Ethylhexyl)phthalate		150	U
117-84-0	Di-n-octyl phthalate		150	U
205-99-2	Benzo(b)fluoranthene		100	U
207-08-9	Benzo(k)fluoranthene		100	U
50-32-8	Benzo(a)pyrene		100	U
53-70-3	Dibenz(a,h)anthracene		100	U
193-39-5	Indeno(1,2,3-cd)pyrene		100	U
191-24-2	Benzo(g,h,i)perylene		100	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Conf-4
 Matrix: (soil/water/air) SOIL Lab File ID: B123108.D
 Sample wt/vol: 20.089 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 8.22 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		160	U
110-86-1	Pyridine		110	U
108-95-2	Phenol		110	U
62-53-3	Aniline		110	U
111-44-4	bis(2-Chloroethyl)ether		110	U
95-57-8	2-Chlorophenol		110	U
541-73-1	1,3-Dichlorobenzene		110	U
106-46-7	1,4-Dichlorobenzene		110	U
95-50-1	1,2-Dichlorobenzene		110	U
95-48-7	2-Methylphenol		110	U
108-60-1	bis(2-chloroisopropyl)ether		110	U
106-44-5	3- & 4-Methylphenol		220	U
621-64-7	n-Nitroso-di-n-propylamine		110	U
67-72-1	Hexachloroethane		110	U
98-95-3	Nitrobenzene		110	U
78-59-1	Isophorone		110	U
88-75-5	2-Nitrophenol		270	U
105-67-9	2,4-Dimethylphenol		540	U
65-85-0	Benzoic acid		810	U
111-91-1	bis(2-Chloroethoxy)methane		110	U
120-83-2	2,4-Dichlorophenol		270	U
120-82-1	1,2,4-Trichlorobenzene		110	U
91-20-3	Naphthalene		110	U
106-47-8	4-Chloroaniline		110	U
87-68-3	Hexachlorobutadiene		110	U
59-50-7	4-Chloro-3-methylphenol		270	U
91-57-6	2-Methylnaphthalene		110	U
77-47-4	Hexachlorocyclopentadiene		110	U
88-06-2	2,4,6-Trichlorophenol		110	U
95-95-4	2,4,5-Trichlorophenol		110	U
91-58-7	2-Chloronaphthalene		110	U
88-74-4	2-Nitroaniline		110	U
131-11-3	Dimethyl phthalate		110	U
208-96-8	Acenaphthylene		110	U
606-20-2	2,6-Dinitrotoluene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Conf-4
 Matrix: (soil/water/air) SOIL Lab File ID: B123108.D
 Sample wt/vol: 20.089 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 8.22 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		110	U
83-32-9	Acenaphthene		110	U
51-28-5	2,4-Dinitrophenol		270	U
100-02-7	4-Nitrophenol		270	U
132-64-9	Dibenzofuran		110	U
121-14-2	2,4-Dinitrotoluene		110	U
84-66-2	Diethyl phthalate		110	U
86-73-7	Fluorene		110	U
7005-72-3	4-Chlorophenyl phenyl ether		110	U
100-01-6	4-Nitroaniline		110	U
534-52-1	4,6-Dinitro-2-methylphenol		270	U
86-30-6	n-Nitrosodiphenylamine		110	U
101-55-3	4-Bromophenyl phenyl ether		110	U
118-74-1	Hexachlorobenzene		110	U
87-86-5	Pentachlorophenol		270	U
85-01-8	Phenanthrene		110	U
120-12-7	Anthracene		110	U
84-74-2	Di-n-butylphthalate		160	U
206-44-0	Fluoranthene		110	U
92-87-5	Benzidine		3200	U
129-00-0	Pyrene		110	U
85-68-7	Butyl benzyl phthalate		110	U
91-94-1	3,3'-Dichlorobenzidine		270	U
56-55-3	Benzo(a)anthracene		110	U
218-01-9	Chrysene		110	U
117-81-7	bis(2-Ethylhexyl)phthalate		160	U
117-84-0	Di-n-octyl phthalate		160	U
205-99-2	Benzo(b)fluoranthene		110	U
207-08-9	Benzo(k)fluoranthene		110	U
50-32-8	Benzo(a)pyrene		110	U
53-70-3	Dibenz(a,h)anthracene		110	U
193-39-5	Indeno(1,2,3-cd)pyrene		110	U
191-24-2	Benzo(g,h,i)perylene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Waste
 Matrix: (soil/water/air) SOIL Lab File ID: B123110.D
 Sample wt/vol: 20.916 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 39.73 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		240	U
110-86-1	Pyridine		160	U
108-95-2	Phenol		160	U
62-53-3	Aniline		160	U
111-44-4	bis(2-Chloroethyl)ether		160	U
95-57-8	2-Chlorophenol		160	U
541-73-1	1,3-Dichlorobenzene		160	U
106-46-7	1,4-Dichlorobenzene		160	U
95-50-1	1,2-Dichlorobenzene		160	U
95-48-7	2-Methylphenol		160	U
108-60-1	bis(2-chloroisopropyl)ether		160	U
106-44-5	3- & 4-Methylphenol		320	U
621-64-7	n-Nitroso-di-n-propylamine		160	U
67-72-1	Hexachloroethane		160	U
98-95-3	Nitrobenzene		160	U
78-59-1	Isophorone		160	U
88-75-5	2-Nitrophenol		400	U
105-67-9	2,4-Dimethylphenol		800	U
65-85-0	Benzoic acid		1200	U
111-91-1	bis(2-Chloroethoxy)methane		160	U
120-83-2	2,4-Dichlorophenol		400	U
120-82-1	1,2,4-Trichlorobenzene		160	U
91-20-3	Naphthalene		510	
106-47-8	4-Chloroaniline		160	U
87-68-3	Hexachlorobutadiene		160	U
59-50-7	4-Chloro-3-methylphenol		400	U
91-57-6	2-Methylnaphthalene		1700	
77-47-4	Hexachlorocyclopentadiene		160	U
88-06-2	2,4,6-Trichlorophenol		160	U
95-95-4	2,4,5-Trichlorophenol		160	U
91-58-7	2-Chloronaphthalene		160	U
88-74-4	2-Nitroaniline		160	U
131-11-3	Dimethyl phthalate		160	U
208-96-8	Acenaphthylene		160	U
606-20-2	2,6-Dinitrotoluene		160	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: Waste
 Matrix: (soil/water/air) SOIL Lab File ID: B123110.D
 Sample wt/vol: 20.916 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 39.73 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		160	U
83-32-9	Acenaphthene		480	
51-28-5	2,4-Dinitrophenol		400	U
100-02-7	4-Nitrophenol		400	U
132-64-9	Dibenzofuran		360	
121-14-2	2,4-Dinitrotoluene		160	U
84-66-2	Diethyl phthalate		160	U
86-73-7	Fluorene		580	
7005-72-3	4-Chlorophenyl phenyl ether		160	U
100-01-6	4-Nitroaniline		160	U
534-52-1	4,6-Dinitro-2-methylphenol		400	U
86-30-6	n-Nitrosodiphenylamine		160	U
101-55-3	4-Bromophenyl phenyl ether		160	U
118-74-1	Hexachlorobenzene		160	U
87-86-5	Pentachlorophenol		400	U
85-01-8	Phenanthrene		1300	
120-12-7	Anthracene		310	
84-74-2	Di-n-butylphthalate		240	U
206-44-0	Fluoranthene		890	
92-87-5	Benzidine		4800	U
129-00-0	Pyrene		740	
85-68-7	Butyl benzyl phthalate		160	U
91-94-1	3,3'-Dichlorobenzidine		400	U
56-55-3	Benzo(a)anthracene		320	
218-01-9	Chrysene		430	
117-81-7	bis(2-Ethylhexyl)phthalate		240	U
117-84-0	Di-n-octyl phthalate		240	U
205-99-2	Benzo(b)fluoranthene		510	
207-08-9	Benzo(k)fluoranthene		160	U
50-32-8	Benzo(a)pyrene		340	
53-70-3	Dibenz(a,h)anthracene		160	U
193-39-5	Indeno(1,2,3-cd)pyrene		310	
191-24-2	Benzo(g,h,i)perylene		250	

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: BSS123013-2
 Matrix: (soil/water/air) SOIL Lab File ID: B123103.D
 Sample wt/vol: 20 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 0 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		150	U
110-86-1	Pyridine		100	U
108-95-2	Phenol		100	U
62-53-3	Aniline		100	U
111-44-4	bis(2-Chloroethyl)ether		100	U
95-57-8	2-Chlorophenol		100	U
541-73-1	1,3-Dichlorobenzene		100	U
106-46-7	1,4-Dichlorobenzene		100	U
95-50-1	1,2-Dichlorobenzene		100	U
95-48-7	2-Methylphenol		100	U
108-60-1	bis(2-chloroisopropyl)ether		100	U
106-44-5	3- & 4-Methylphenol		200	U
621-64-7	n-Nitroso-di-n-propylamine		100	U
67-72-1	Hexachloroethane		100	U
98-95-3	Nitrobenzene		100	U
78-59-1	Isophorone		100	U
88-75-5	2-Nitrophenol		250	U
105-67-9	2,4-Dimethylphenol		500	U
65-85-0	Benzoic acid		750	U
111-91-1	bis(2-Chloroethoxy)methane		100	U
120-83-2	2,4-Dichlorophenol		250	U
120-82-1	1,2,4-Trichlorobenzene		100	U
91-20-3	Naphthalene		100	U
106-47-8	4-Chloroaniline		100	U
87-68-3	Hexachlorobutadiene		100	U
59-50-7	4-Chloro-3-methylphenol		250	U
91-57-6	2-Methylnaphthalene		100	U
77-47-4	Hexachlorocyclopentadiene		100	U
88-06-2	2,4,6-Trichlorophenol		100	U
95-95-4	2,4,5-Trichlorophenol		100	U
91-58-7	2-Chloronaphthalene		100	U
88-74-4	2-Nitroaniline		100	U
131-11-3	Dimethyl phthalate		100	U
208-96-8	Acenaphthylene		100	U
606-20-2	2,6-Dinitrotoluene		100	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: BSS123013-2
 Matrix: (soil/water/air) SOIL Lab File ID: B123103.D
 Sample wt/vol: 20 (g/ml) G Date Sampled: 12/30/2013
 Level: (low/med) LOW Date Extracted: 12/30/2013
 % Moisture: 0 Date Analyzed: 12/31/2013
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		100	U
83-32-9	Acenaphthene		100	U
51-28-5	2,4-Dinitrophenol		250	U
100-02-7	4-Nitrophenol		250	U
132-64-9	Dibenzofuran		100	U
121-14-2	2,4-Dinitrotoluene		100	U
84-66-2	Diethyl phthalate		100	U
86-73-7	Fluorene		100	U
7005-72-3	4-Chlorophenyl phenyl ether		100	U
100-01-6	4-Nitroaniline		100	U
534-52-1	4,6-Dinitro-2-methylphenol		250	U
86-30-6	n-Nitrosodiphenylamine		100	U
101-55-3	4-Bromophenyl phenyl ether		100	U
118-74-1	Hexachlorobenzene		100	U
87-86-5	Pentachlorophenol		250	U
85-01-8	Phenanthrene		100	U
120-12-7	Anthracene		100	U
84-74-2	Di-n-butylphthalate		150	U
206-44-0	Fluoranthene		100	U
92-87-5	Benzidine		3000	U
129-00-0	Pyrene		100	U
85-68-7	Butyl benzyl phthalate		100	U
91-94-1	3,3'-Dichlorobenzidine		250	U
56-55-3	Benzo(a)anthracene		100	U
218-01-9	Chrysene		100	U
117-81-7	bis(2-Ethylhexyl)phthalate		150	U
117-84-0	Di-n-octyl phthalate		150	U
205-99-2	Benzo(b)fluoranthene		100	U
207-08-9	Benzo(k)fluoranthene		100	U
50-32-8	Benzo(a)pyrene		100	U
53-70-3	Dibenz(a,h)anthracene		100	U
193-39-5	Indeno(1,2,3-cd)pyrene		100	U
191-24-2	Benzo(g,h,i)perylene		100	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: New England Testing Laboratory Case No.: Z1230-23
 Lab Code: RI010 Client Name: Pare Corporation
 Level: (low/med) LOW

	Sample ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
01	BSS123013-2	66	71	68	72	77	74	0
02	LSS123013-2	120	124	124	116	115	130	0
03	CONF-1	72	77	75	80	68	83	0
04	CONF-3	79	85	82	87	97	88	0
05	CONF-4	91	98	95	100	114	101	0
06	CONF-2	80	86	84	90	97	97	0
07	WASTE	82	86	99	94	117	87	0

QC LIMITS

S1 = 2-Fluorophenol (27-130)
 S2 = Phenol-d6 (30-130)
 S3 = Nitrobenzene-d5 (35-130)
 S4 = 2-Fluorobiphenyl (36-130)
 S5 = 2,4,6-Tribromophenol (43-130)
 S6 = Terphenyl-d14 (30-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

New England Testing Laboratory, Inc.

Semivolatile Soil Laboratory Control Spike

Date Extracted: 12/30/2013

Date Analyzed: 12/31/2013

	Amount Spiked	Result,	Recovery	Lower Recovery	Upper Recovery
	ug/Kg	ug/Kg	%	Limit	Limit
n-Nitrosodimethylamine	2500	1680	67	40	130
Phenol	2500	1845	74	40	130
Aniline	2500	1181	47	40	130
bis(2-Chloroethyl)ether	2500	1834	73	40	130
2-Chlorophenol	2500	1928	77	40	130
1,3-Dichlorobenzene	2500	1733	69	40	130
1,4-Dichlorobenzene	2500	1778	71	40	130
1,2-Dichlorobenzene	2500	1791	72	40	130
2-Methylphenol	2500	1902	76	40	130
3- & 4-Methylphenol	2500	1994	80	40	130
n-Nitroso-di-n-propylamine	2500	1897	76	40	130
Hexachloroethane	2500	1750	70	40	130
Nitrobenzene	2500	1778	71	40	130
Isophorone	2500	2040	82	40	130
2-Nitrophenol	2500	2039	82	40	130
2,4-Dimethylphenol	2500	1951	78	40	130
bis(2-Chloroethoxy)methane	2500	1965	79	40	130
2,4-Dichlorophenol	2500	2083	83	40	130
1,2,4-Trichlorobenzene	2500	1853	74	40	130
Naphthalene	2500	1690	68	40	130
Hexachlorobutadiene	2500	1886	75	40	130
4-Chloro-3-methylphenol	2500	2151	86	40	130
2-Methylnaphthalene	2500	1827	73	40	130
2,4,6-Trichlorophenol	2500	2168	87	40	130
2,4,5-Trichlorophenol	2500	2173	87	40	130
2-Chloronaphthalene	2500	1828	73	40	130
2-Nitroaniline	2500	2165	87	40	130
Dimethyl phthalate	2500	1904	76	40	130
Acenaphthylene	2500	1807	72	40	130
2,6-Dinitrotoluene	2500	2191	88	40	130
Acenaphthene	2500	1684	67	40	130
4-Nitrophenol	2500	2151	86	40	130
Dibenzofuran	2500	1836	73	40	130
2,4-Dinitrotoluene	2500	2099	84	40	130
Diethyl phthalate	2500	1867	75	40	130
Fluorene	2500	1693	68	40	130

Semivolatile Soil Laboratory Control Spike

Date Extracted: 12/30/2013

Date Analyzed: 12/31/2013

	Amount Spiked	Result,	Recovery	Lower Recovery	Upper Recovery
	ug/Kg	ug/Kg	%	Limit	Limit
4-Chlorophenyl phenyl ether	2500	1815	73	40	130
n-Nitrosodiphenylamine	2500	2263	91	40	130
4-Bromophenyl phenyl ether	2500	1924	77	40	130
Hexachlorobenzene	2500	1914	77	40	130
Pentachlorophenol	2500	2914	117	40	130
Phenanthrene	2500	1703	68	40	130
Anthracene	2500	1754	70	40	130
Di-n-butylphthalate	2500	2036	81	40	130
Fluoranthene	2500	1834	73	40	130
Pyrene	2500	1839	74	40	130
Butyl benzyl phthalate	2500	2287	91	40	130
Benzo(a)anthracene	2500	1676	67	40	130
Chrysene	2500	1816	73	40	130
bis(2-Ethylhexyl)phthalate	2500	2260	90	40	130
Di-n-octyl phthalate	2500	2384	95	40	130
Benzo(b)fluoranthene	2500	2208	88	40	130
Benzo(k)fluoranthene	2500	2066	83	40	130
Benzo(a)pyrene	2500	2133	85	40	130
Indeno(1,2,3-cd)pyrene	2500	2237	89	40	130
Dibenz(a,h)anthracene	2500	2345	94	40	130
Benzo(g,h,i)perylene	2500	2078	83	40	130

RESULTS: VOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-1
 Matrix: (soil/water) SOIL Lab File ID: C123048.D
 Sample wt/vol: 20.4 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 10.65 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	28	U
74-83-9	Bromomethane	28	U
75-00-3	Chloroethane	28	U
67-64-1	Acetone	140	U
75-35-4	1,1-Dichloroethene	28	U
75-15-0	Carbon Disulfide	28	U
75-09-2	Methylene Chloride	28	U
1634-04-4	tert-Butyl methyl ether	28	U
156-60-5	trans-1,2 Dichloroethene	28	U
75-34-3	1,1-Dichloroethane	28	U
78-93-3	2-Butanone	140	U
594-20-7	2,2-Dichloropropane	28	U
156-59-2	cis-1,2-Dichloroethene	28	U
67-66-3	Chloroform	28	U
74-97-5	Bromochloromethane	28	U
71-55-6	1,1,1-Trichloroethane	28	U
563-58-6	1,1-Dichloropropene	28	U
56-23-5	Carbon Tetrachloride	28	U
71-43-2	Benzene	28	U
107-06-2	1,2-Dichloroethane	28	U
79-01-6	Trichloroethene	28	U
78-87-5	1,2-Dichloropropane	28	U
75-27-4	Bromodichloromethane	28	U
74-95-3	Dibromomethane	28	U
108-10-1	4-Methyl-2-pentanone	140	U
106-93-4	Ethylene Dibromide	28	U
10061-01-5	cis-1,3-Dichloropropene	28	U
108-88-3	Toluene	28	U
10061-02-6	Trans-1,3-Dichloropropene	28	U
79-00-5	1,1,2-Trichloroethane	28	U
591-78-6	2-Hexanone	140	U
127-18-4	Tetrachloroethene	28	U
124-48-1	Chlorodibromomethane	28	U
108-90-7	Chlorobenzene	28	U
630-20-6	1,1,1,2-Tetrachloroethane	28	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-1
 Matrix: (soil/water) SOIL Lab File ID: C123048.D
 Sample wt/vol: 20.4 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 10.65 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	28	U
1330-20-7	m & p-Xylene	55	U
95-47-6	o-Xylene	28	U
100-42-5	Styrene	28	U
75-25-2	Bromoform	28	U
98-82-8	Isopropylbenzene	28	U
79-34-5	1,1,2,2-Tetrachloroethane	28	U
108-86-1	Bromobenzene	28	U
96-18-4	1,2,3-Trichloropropane	28	U
95-49-8	2-Chlorotoluene	28	U
103-65-1	n-Propylbenzene	28	U
108-67-8	1,3,5-Trimethylbenzene	28	U
106-43-4	4-Chlorotoluene	28	U
98-06-6	tert-Butylbenzene	28	U
95-63-6	1,2,4-Trimethylbenzene	28	U
135-98-8	sec-Butylbenzene	28	U
99-87-6	p-Isopropyltoluene	28	U
75-87-3	Chloromethane	28	U
75-65-0	tert butyl alcohol	28	U
541-73-1	1,3-Dichlorobenzene	28	U
109-99-9	Tetrahydrofuran	28	U
106-46-7	1,4-Dichlorobenzene	28	U
60-29-7	Diethyl Ether	28	U
104-51-8	n-Butylbenzene	28	U
95-50-1	1,2-Dichlorobenzene	28	U
96-12-8	1,2-Dibromo-3-chloropropane	28	U
120-82-1	1,2,4-Trichlorobenzene	28	U
87-68-3	Hexachlorobutadiene	28	U
91-20-3	Naphthalene	28	U
87-61-6	1,2,3-Trichlorobenzene	28	U
994-05-8	Tert-amyl Methyl Ether	28	U
75-71-8	Dichlorodifluoromethane	28	U
142-28-9	1,3-Dichloropropane	28	U
75-69-4	Trichlorofluoromethane	28	U
637-92-3	Ethyl Tert-butyl ether	28	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-1
 Matrix: (soil/water) SOIL Lab File ID: C123048.D
 Sample wt/vol: 20.4 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 10.65 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	28	U
123-91-1	1,4-Dioxane	14000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-2
 Matrix: (soil/water) SOIL Lab File ID: C123049.D
 Sample wt/vol: 18.7 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 8.51 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	29	U
74-83-9	Bromomethane	29	U
75-00-3	Chloroethane	29	U
67-64-1	Acetone	150	U
75-35-4	1,1-Dichloroethene	29	U
75-15-0	Carbon Disulfide	29	U
75-09-2	Methylene Chloride	29	U
1634-04-4	tert-Butyl methyl ether	29	U
156-60-5	trans-1,2 Dichloroethene	29	U
75-34-3	1,1-Dichloroethane	29	U
78-93-3	2-Butanone	150	U
594-20-7	2,2-Dichloropropane	29	U
156-59-2	cis-1,2-Dichloroethene	29	U
67-66-3	Chloroform	29	U
74-97-5	Bromochloromethane	29	U
71-55-6	1,1,1-Trichloroethane	29	U
563-58-6	1,1-Dichloropropene	29	U
56-23-5	Carbon Tetrachloride	29	U
71-43-2	Benzene	29	U
107-06-2	1,2-Dichloroethane	29	U
79-01-6	Trichloroethene	29	U
78-87-5	1,2-Dichloropropane	29	U
75-27-4	Bromodichloromethane	29	U
74-95-3	Dibromomethane	29	U
108-10-1	4-Methyl-2-pentanone	150	U
106-93-4	Ethylene Dibromide	29	U
10061-01-5	cis-1,3-Dichloropropene	29	U
108-88-3	Toluene	29	U
10061-02-6	Trans-1,3-Dichloropropene	29	U
79-00-5	1,1,2-Trichloroethane	29	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	29	U
124-48-1	Chlorodibromomethane	29	U
108-90-7	Chlorobenzene	29	U
630-20-6	1,1,1,2-Tetrachloroethane	29	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-2
 Matrix: (soil/water) SOIL Lab File ID: C123049.D
 Sample wt/vol: 18.7 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 8.51 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	29	U
1330-20-7	m & p-Xylene	59	U
95-47-6	o-Xylene	29	U
100-42-5	Styrene	29	U
75-25-2	Bromoform	29	U
98-82-8	Isopropylbenzene	29	U
79-34-5	1,1,2,2-Tetrachloroethane	29	U
108-86-1	Bromobenzene	29	U
96-18-4	1,2,3-Trichloropropane	29	U
95-49-8	2-Chlorotoluene	29	U
103-65-1	n-Propylbenzene	29	U
108-67-8	1,3,5-Trimethylbenzene	29	U
106-43-4	4-Chlorotoluene	29	U
98-06-6	tert-Butylbenzene	29	U
95-63-6	1,2,4-Trimethylbenzene	29	U
135-98-8	sec-Butylbenzene	29	U
99-87-6	p-Isopropyltoluene	29	U
75-87-3	Chloromethane	29	U
75-65-0	tert butyl alcohol	29	U
541-73-1	1,3-Dichlorobenzene	29	U
109-99-9	Tetrahydrofuran	29	U
106-46-7	1,4-Dichlorobenzene	29	U
60-29-7	Diethyl Ether	29	U
104-51-8	n-Butylbenzene	29	U
95-50-1	1,2-Dichlorobenzene	29	U
96-12-8	1,2-Dibromo-3-chloropropane	29	U
120-82-1	1,2,4-Trichlorobenzene	29	U
87-68-3	Hexachlorobutadiene	29	U
91-20-3	Naphthalene	29	U
87-61-6	1,2,3-Trichlorobenzene	29	U
994-05-8	Tert-amyl Methyl Ether	29	U
75-71-8	Dichlorodifluoromethane	29	U
142-28-9	1,3-Dichloropropane	29	U
75-69-4	Trichlorofluoromethane	29	U
637-92-3	Ethyl Tert-butyl ether	29	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-2
 Matrix: (soil/water) SOIL Lab File ID: C123049.D
 Sample wt/vol: 18.7 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 8.51 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	29	U
123-91-1	1,4-Dioxane	15000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-3
 Matrix: (soil/water) SOIL Lab File ID: C123050.D
 Sample wt/vol: 16.7 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 4.14 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	31	U
74-83-9	Bromomethane	31	U
75-00-3	Chloroethane	31	U
67-64-1	Acetone	160	U
75-35-4	1,1-Dichloroethene	31	U
75-15-0	Carbon Disulfide	31	U
75-09-2	Methylene Chloride	31	U
1634-04-4	tert-Butyl methyl ether	31	U
156-60-5	trans-1,2 Dichloroethene	31	U
75-34-3	1,1-Dichloroethane	31	U
78-93-3	2-Butanone	160	U
594-20-7	2,2-Dichloropropane	31	U
156-59-2	cis-1,2-Dichloroethene	31	U
67-66-3	Chloroform	31	U
74-97-5	Bromochloromethane	31	U
71-55-6	1,1,1-Trichloroethane	31	U
563-58-6	1,1-Dichloropropene	31	U
56-23-5	Carbon Tetrachloride	31	U
71-43-2	Benzene	31	U
107-06-2	1,2-Dichloroethane	31	U
79-01-6	Trichloroethene	31	U
78-87-5	1,2-Dichloropropane	31	U
75-27-4	Bromodichloromethane	31	U
74-95-3	Dibromomethane	31	U
108-10-1	4-Methyl-2-pentanone	160	U
106-93-4	Ethylene Dibromide	31	U
10061-01-5	cis-1,3-Dichloropropene	31	U
108-88-3	Toluene	31	U
10061-02-6	Trans-1,3-Dichloropropene	31	U
79-00-5	1,1,2-Trichloroethane	31	U
591-78-6	2-Hexanone	160	U
127-18-4	Tetrachloroethene	31	U
124-48-1	Chlorodibromomethane	31	U
108-90-7	Chlorobenzene	31	U
630-20-6	1,1,1,2-Tetrachloroethane	31	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-3
 Matrix: (soil/water) SOIL Lab File ID: C123050.D
 Sample wt/vol: 16.7 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 4.14 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	31	U
1330-20-7	m & p-Xylene	62	U
95-47-6	o-Xylene	31	U
100-42-5	Styrene	31	U
75-25-2	Bromoform	31	U
98-82-8	Isopropylbenzene	31	U
79-34-5	1,1,2,2-Tetrachloroethane	31	U
108-86-1	Bromobenzene	31	U
96-18-4	1,2,3-Trichloropropane	31	U
95-49-8	2-Chlorotoluene	31	U
103-65-1	n-Propylbenzene	31	U
108-67-8	1,3,5-Trimethylbenzene	31	U
106-43-4	4-Chlorotoluene	31	U
98-06-6	tert-Butylbenzene	31	U
95-63-6	1,2,4-Trimethylbenzene	31	U
135-98-8	sec-Butylbenzene	31	U
99-87-6	p-Isopropyltoluene	31	U
75-87-3	Chloromethane	31	U
75-65-0	tert butyl alcohol	31	U
541-73-1	1,3-Dichlorobenzene	31	U
109-99-9	Tetrahydrofuran	31	U
106-46-7	1,4-Dichlorobenzene	31	U
60-29-7	Diethyl Ether	31	U
104-51-8	n-Butylbenzene	31	U
95-50-1	1,2-Dichlorobenzene	31	U
96-12-8	1,2-Dibromo-3-chloropropane	31	U
120-82-1	1,2,4-Trichlorobenzene	31	U
87-68-3	Hexachlorobutadiene	31	U
91-20-3	Naphthalene	31	U
87-61-6	1,2,3-Trichlorobenzene	31	U
994-05-8	Tert-amyl Methyl Ether	31	U
75-71-8	Dichlorodifluoromethane	31	U
142-28-9	1,3-Dichloropropane	31	U
75-69-4	Trichlorofluoromethane	31	U
637-92-3	Ethyl Tert-butyl ether	31	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-3
 Matrix: (soil/water) SOIL Lab File ID: C123050.D
 Sample wt/vol: 16.7 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 4.14 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	31	U
123-91-1	1,4-Dioxane	16000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-4
 Matrix: (soil/water) SOIL Lab File ID: C123051.D
 Sample wt/vol: 19.2 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 8.22 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	28	U
74-83-9	Bromomethane	28	U
75-00-3	Chloroethane	28	U
67-64-1	Acetone	140	U
75-35-4	1,1-Dichloroethene	28	U
75-15-0	Carbon Disulfide	28	U
75-09-2	Methylene Chloride	28	U
1634-04-4	tert-Butyl methyl ether	28	U
156-60-5	trans-1,2 Dichloroethene	28	U
75-34-3	1,1-Dichloroethane	28	U
78-93-3	2-Butanone	140	U
594-20-7	2,2-Dichloropropane	28	U
156-59-2	cis-1,2-Dichloroethene	28	U
67-66-3	Chloroform	28	U
74-97-5	Bromochloromethane	28	U
71-55-6	1,1,1-Trichloroethane	28	U
563-58-6	1,1-Dichloropropene	28	U
56-23-5	Carbon Tetrachloride	28	U
71-43-2	Benzene	28	U
107-06-2	1,2-Dichloroethane	28	U
79-01-6	Trichloroethene	28	U
78-87-5	1,2-Dichloropropane	28	U
75-27-4	Bromodichloromethane	28	U
74-95-3	Dibromomethane	28	U
108-10-1	4-Methyl-2-pentanone	140	U
106-93-4	Ethylene Dibromide	28	U
10061-01-5	cis-1,3-Dichloropropene	28	U
108-88-3	Toluene	28	U
10061-02-6	Trans-1,3-Dichloropropene	28	U
79-00-5	1,1,2-Trichloroethane	28	U
591-78-6	2-Hexanone	140	U
127-18-4	Tetrachloroethene	28	U
124-48-1	Chlorodibromomethane	28	U
108-90-7	Chlorobenzene	28	U
630-20-6	1,1,1,2-Tetrachloroethane	28	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-4
 Matrix: (soil/water) SOIL Lab File ID: C123051.D
 Sample wt/vol: 19.2 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 8.22 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	28	U
1330-20-7	m & p-Xylene	57	U
95-47-6	o-Xylene	28	U
100-42-5	Styrene	28	U
75-25-2	Bromoform	28	U
98-82-8	Isopropylbenzene	28	U
79-34-5	1,1,2,2-Tetrachloroethane	28	U
108-86-1	Bromobenzene	28	U
96-18-4	1,2,3-Trichloropropane	28	U
95-49-8	2-Chlorotoluene	28	U
103-65-1	n-Propylbenzene	28	U
108-67-8	1,3,5-Trimethylbenzene	28	U
106-43-4	4-Chlorotoluene	28	U
98-06-6	tert-Butylbenzene	28	U
95-63-6	1,2,4-Trimethylbenzene	28	U
135-98-8	sec-Butylbenzene	28	U
99-87-6	p-Isopropyltoluene	28	U
75-87-3	Chloromethane	28	U
75-65-0	tert butyl alcohol	28	U
541-73-1	1,3-Dichlorobenzene	28	U
109-99-9	Tetrahydrofuran	28	U
106-46-7	1,4-Dichlorobenzene	28	U
60-29-7	Diethyl Ether	28	U
104-51-8	n-Butylbenzene	28	U
95-50-1	1,2-Dichlorobenzene	28	U
96-12-8	1,2-Dibromo-3-chloropropane	28	U
120-82-1	1,2,4-Trichlorobenzene	28	U
87-68-3	Hexachlorobutadiene	28	U
91-20-3	Naphthalene	28	U
87-61-6	1,2,3-Trichlorobenzene	28	U
994-05-8	Tert-amyl Methyl Ether	28	U
75-71-8	Dichlorodifluoromethane	28	U
142-28-9	1,3-Dichloropropane	28	U
75-69-4	Trichlorofluoromethane	28	U
637-92-3	Ethyl Tert-butyl ether	28	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-4
 Matrix: (soil/water) SOIL Lab File ID: C123051.D
 Sample wt/vol: 19.2 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 8.22 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	28	U
123-91-1	1,4-Dioxane	14000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: WASTE
 Matrix: (soil/water) SOIL Lab File ID: C123052.D
 Sample wt/vol: 15.1 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 39.73 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	55	U
74-83-9	Bromomethane	55	U
75-00-3	Chloroethane	55	U
67-64-1	Acetone	280	U
75-35-4	1,1-Dichloroethene	55	U
75-15-0	Carbon Disulfide	55	U
75-09-2	Methylene Chloride	55	U
1634-04-4	tert-Butyl methyl ether	55	U
156-60-5	trans-1,2 Dichloroethene	55	U
75-34-3	1,1-Dichloroethane	55	U
78-93-3	2-Butanone	280	U
594-20-7	2,2-Dichloropropane	55	U
156-59-2	cis-1,2-Dichloroethene	55	U
67-66-3	Chloroform	55	U
74-97-5	Bromochloromethane	55	U
71-55-6	1,1,1-Trichloroethane	55	U
563-58-6	1,1-Dichloropropene	55	U
56-23-5	Carbon Tetrachloride	55	U
71-43-2	Benzene	55	U
107-06-2	1,2-Dichloroethane	55	U
79-01-6	Trichloroethene	55	U
78-87-5	1,2-Dichloropropane	55	U
75-27-4	Bromodichloromethane	55	U
74-95-3	Dibromomethane	55	U
108-10-1	4-Methyl-2-pentanone	280	U
106-93-4	Ethylene Dibromide	55	U
10061-01-5	cis-1,3-Dichloropropene	55	U
108-88-3	Toluene	55	U
10061-02-6	Trans-1,3-Dichloropropene	55	U
79-00-5	1,1,2-Trichloroethane	55	U
591-78-6	2-Hexanone	280	U
127-18-4	Tetrachloroethene	55	U
124-48-1	Chlorodibromomethane	55	U
108-90-7	Chlorobenzene	55	U
630-20-6	1,1,1,2-Tetrachloroethane	55	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: WASTE
 Matrix: (soil/water) SOIL Lab File ID: C123052.D
 Sample wt/vol: 15.1 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 39.73 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	55	U
1330-20-7	m & p-Xylene	110	U
95-47-6	o-Xylene	55	U
100-42-5	Styrene	55	U
75-25-2	Bromoform	55	U
98-82-8	Isopropylbenzene	55	U
79-34-5	1,1,2,2-Tetrachloroethane	55	U
108-86-1	Bromobenzene	55	U
96-18-4	1,2,3-Trichloropropane	55	U
95-49-8	2-Chlorotoluene	55	U
103-65-1	n-Propylbenzene	55	U
108-67-8	1,3,5-Trimethylbenzene	190	
106-43-4	4-Chlorotoluene	55	U
98-06-6	tert-Butylbenzene	55	U
95-63-6	1,2,4-Trimethylbenzene	330	
135-98-8	sec-Butylbenzene	170	
99-87-6	p-Isopropyltoluene	250	
75-87-3	Chloromethane	55	U
75-65-0	tert butyl alcohol	55	U
541-73-1	1,3-Dichlorobenzene	55	U
109-99-9	Tetrahydrofuran	55	U
106-46-7	1,4-Dichlorobenzene	55	U
60-29-7	Diethyl Ether	55	U
104-51-8	n-Butylbenzene	55	U
95-50-1	1,2-Dichlorobenzene	55	U
96-12-8	1,2-Dibromo-3-chloropropane	55	U
120-82-1	1,2,4-Trichlorobenzene	55	U
87-68-3	Hexachlorobutadiene	55	U
91-20-3	Naphthalene	480	
87-61-6	1,2,3-Trichlorobenzene	55	U
994-05-8	Tert-amyl Methyl Ether	55	U
75-71-8	Dichlorodifluoromethane	55	U
142-28-9	1,3-Dichloropropane	55	U
75-69-4	Trichlorofluoromethane	55	U
637-92-3	Ethyl Tert-butyl ether	55	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: WASTE
 Matrix: (soil/water) SOIL Lab File ID: C123052.D
 Sample wt/vol: 15.1 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 39.73 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	55	U
123-91-1	1,4-Dioxane	28000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK123013-2
 Matrix: (soil/water) SOIL Lab File ID: C123039.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 0 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
67-64-1	Acetone	250	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon Disulfide	50	U
75-09-2	Methylene Chloride	50	U
1634-04-4	tert-Butyl methyl ether	50	U
156-60-5	trans-1,2 Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
78-93-3	2-Butanone	250	U
594-20-7	2,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
74-97-5	Bromochloromethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon Tetrachloride	50	U
71-43-2	Benzene	50	U
107-06-2	1,2-Dichloroethane	50	U
79-01-6	Trichloroethene	50	U
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
74-95-3	Dibromomethane	50	U
108-10-1	4-Methyl-2-pentanone	250	U
106-93-4	Ethylene Dibromide	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-88-3	Toluene	50	U
10061-02-6	Trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
124-48-1	Chlorodibromomethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK123013-2
 Matrix: (soil/water) SOIL Lab File ID: C123039.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 0 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	50	U
1330-20-7	m & p-Xylene	100	U
95-47-6	o-Xylene	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
103-65-1	n-Propylbenzene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	p-Isopropyltoluene	50	U
75-87-3	Chloromethane	50	U
75-65-0	tert butyl alcohol	50	U
541-73-1	1,3-Dichlorobenzene	50	U
109-99-9	Tetrahydrofuran	50	U
106-46-7	1,4-Dichlorobenzene	50	U
60-29-7	Diethyl Ether	50	U
104-51-8	n-Butylbenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
91-20-3	Naphthalene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
994-05-8	Tert-amyl Methyl Ether	50	U
75-71-8	Dichlorodifluoromethane	50	U
142-28-9	1,3-Dichloropropane	50	U
75-69-4	Trichlorofluoromethane	50	U
637-92-3	Ethyl Tert-butyl ether	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z1230-23 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK123013-2
 Matrix: (soil/water) SOIL Lab File ID: C123039.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 12/30/2013
 % Moisture 0 Date Analyzed: 12/31/2013
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	50	U
123-91-1	1,4-Dioxane	25000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.



2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NEW ENGLAND TESTING LAB Contract: 13062.09

Lab Code: RI010 Case No.: Z1230-23 SAS No.: SDG No.: PARE

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VLCS123013-2	105	101	96	0
02	VBLK123013-2	96	96	92	0
03	CONF-1	98	96	92	0
04	CONF-2	91	96	92	0
05	CONF-3	93	94	93	0
06	CONF-4	90	96	90	0
07	WASTE	89	102	94	0

QC LIMITS

SMC1 = 4-Bromofluorobenzene (70-130)
SMC2 = Toluene-D8 (70-130)
SMC3 = 1,2-Dichloroethane-D4 (70-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

Volatile Organics Laboratory Control Spike

Date Analyzed: 12/30/2013

Sample ID: VLCS123013

Compound	Spike Added	Spike Result	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
1,1-Dichloroethene	50.0	50.3	101	70	129
Benzene	50.0	52.9	106	73	129
Trichloroethene	50.0	57.8	116	77	122
Toluene	50.0	52.3	105	75	123
Chlorobenzene	50.0	52.0	104	73	125

21230-23

NEW ENGLAND TESTING LABORATORY, INC.
 1254 Douglas Avenue
 North Providence, RI 02904
 1-888-863-8522

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION		PRESERVATIVE			TESTS**										
13062.09 CB-BVP - CONTAMINATED SOIL		PARE CORPORATION					TPH	VOCs	SVOCS	PCBs	PESTICIDES	TOT. PCBs & METALS	TCLP PCBs & METALS	FREE LIQUIDS	PERCENT ORGANICS	CYANIDE	PH
DATE	TIME	COMP	GRAB	SAMPLE I.D.	SOIL	OTHER	NO. OF CONTAINERS	LABORATORY REMARKS:	TEMP. RECEIVED:	COOLED	SPECIAL INSTRUCTIONS:	LIST SPECIFIC DETECTION LIMIT REQUIREMENTS:	TURNAROUND (BUSINESS DAYS)				
12/30	11:00	X	X	CONF-1	X		2	None	4C	<input type="checkbox"/>	PLEASE EXPEDITE TURNAROUND TIME TO 48 HRS		2 (48 hrs)				
↓	↓	X	X	CONF-2	X		2										
↓	↓	X	X	CONF-3	X		2										
↓	↓	X	X	CONF-4	X		2										
↓	↓	X	X	WASTE	X		2										

**Netlab Subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

Del B. 12-30-13 16:05
1605
12-30-13
1605

**REPORT OF ANALYTICAL RESULTS****NETLAB Case Number Z1230-23A**

Prepared for:

Attn: M. Dowdell
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

Report Date: January 6, 2014

Reviewed By:

Richard Warila
Laboratory Director

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, RI 02904

(401) 353-3420

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on December 30, 2013. Additional analyses were added per client request on January 3, 2014. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is Z1230-23A.

Custody records are included in this report.

Site: CB-BVP-Contaminated Soil

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
Conf-1	12/30/13	Soil	Table II
Conf-2	12/30/13	Soil	Table II
Conf-3	12/30/13	Soil	Table II
Conf-4	12/30/13	Soil	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Metals		
Lead	3050B	6010C

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

METALS RESULTS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

New England Testing Laboratory, Inc.

METALS RESULTS



Case Number: Z1230-23
 Sample ID: Conf-1
 Date collected: 12/27/13
 Matrix: SOIL
 Solids, %: 89.35
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	57.0	0.37	mg/kg	1/6/14	1/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: Z1230-23
 Sample ID: Conf-2
 Date collected: 12/27/13
 Matrix: SOIL
 Solids, %: 91.49
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	287	0.35	mg/kg	1/6/14	1/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: Z1230-23
 Sample ID: Conf-3
 Date collected: 12/27/13
 Matrix: SOIL
 Solids, %: 95.86
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	7.47	0.34	mg/kg	1/6/14	1/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: Z1230-23
 Sample ID: Conf-4
 Date collected: 12/27/13
 Matrix: SOIL
 Solids, %: 91.78
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	111	0.36	mg/kg	1/6/14	1/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank
 Matrix SOIL
 Solids, % 100
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	ND	0.33	mg/kg	1/6/14	1/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

LABORATORY CONTROL SAMPLE RECOVERY

Internal

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Lead	66.7	65.3	mg/kg	98	80	114	1/6/14

New England Testing Laboratory, Inc.



REPORT OF ANALYTICAL RESULTS

NETLAB Case Number A0106-23

Prepared for:

Attn: M. Dowdell
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

Report Date: January 8, 2014

Reviewed By:

Richard Warila
Laboratory Director

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, RI 02904

(401) 353-3420

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on January 6, 2013. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is Z1230-23

Custody records are included in this report.

Site: CB-BVP-Contaminated Soil

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
CONF-5	1/6/14	Soil	Table II
CONF-6	1/6/14	Soil	Table II
CONF-7	1/6/14	Soil	Table II
CONF-8	1/6/14	Soil	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Petroleum Hydrocarbons	3550C	8100M
Semi-volatile Organic Compounds	3550C	8270D
Volatile Organic Compounds	5035	8260B
Total Lead	3050B	6010C

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

Total Petroleum Hydrocarbons

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Volatile Organic Compounds:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria. The compounds listed in Table 1 were screened by method 8260B utilizing ion reconstruction and NIST library search parameters. There were no detections of Table 1 compounds to an estimated detection limit of 100 ug/Kg.

Semi-volatile Compounds

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria. The compounds listed in Table 2 were screened by method 8270D utilizing ion reconstruction and NIST library search parameters. There were no detections of Table 2 compounds to an estimated detection limit of 500 ug/Kg.

Table 1

Acetaldehyde	Nitroso-di-N-butylamine, N
Acetonitrile	Nonane, n-
Acrolein	Pentane, n-
Acrylonitrile	Propyl benzene
Allyl Chloride	Tetrafluoroethane, 1,1,1,2-
Bromo-2-chloroethane, 1-	Tetrahydrofuran
Bromobenzene	Trichloro-1,2,2-trifluoroethane, 1,1,2-
Butadiene, 1,3-	Trichloropropene, 1,2,3-
Chloro-1,1-difluoroethane, 1-	Trimethylbenzene, 1,2,3-
Chloro-1,3-butadiene, 2-	Trimethylbenzene, 1,2,4-
Chlorodifluoromethane	Vinyl Bromide
Cumene(isopropylbenzene)	Acetone Cyanohydrin
Cyclohexane	Chlorobenzotrifluoride, 4-
Cyclohexene	Chloropicrin
Difluoroethane, 1,1-	Dihydrosafrole
Dimethylvinylchloride	Epoxybutane, 1,2-
Epichlorohydrin	Triethylamine
Ethyl Methacrylate	Ethyleneimine
Ethylene Oxide	Methyl Isocyanate
Hexane, N-	Nitromethane
Methacrylonitrile	Propionaldehyde
Methyl Acrylate	Propylene
Methyl Methacrylate	
Methyl Styrene (Mixed Isomers)	
Nitropropane, 2-	

Table 2

Biphenyl, 1,1'	Hexamethylene Diisocyanate, 1,6-
Bis(2-chloro-1-methylethyl) ether	Dicyclopentadiene
Chloromethyl Methyl Ether	

Sample: CONF-5		Analyst's Initials: BJ
Case No. A0106-23		
Date Collected: 1/6/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3550C	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	1/7/14	1/7/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	23
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	88	62-151

Sample: CONF-6		Analyst's Initials: BJ
Case No. A0106-23		
Date Collected: 1/6/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3550C	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	1/7/14	1/7/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	22
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	70	62-151

ND = Not Detected

*Dry Weight Basis

Sample: CONF-7		Analyst's Initials: BJ
Case No. A0106-23		
Date Collected: 1/6/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3550C	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	1/7/14	1/7/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	52	22
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	90	62-151

Sample: CONF-8		Analyst's Initials: BJ
Case No. A0106-23		
Date Collected: 1/6/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3550C	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	1/7/14	1/7/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	22
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	85	62-151

ND = Not Detected

*Dry Weight Basis

METALS RESULTS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

New England Testing Laboratory, Inc.

METALS RESULTS



Case Number: A0106-23
 Sample ID: CONF-5
 Date collected: 1/6/14
 Matrix: SOIL
 Solids, %: 87.46
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	43.5	0.38	mg/kg	1/7/14	1/8/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0106-23
 Sample ID: CONF-6
 Date collected: 1/6/14
 Matrix: SOIL
 Solids, %: 92.07
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	1.92	0.32	mg/kg	1/7/14	1/8/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0106-23
 Sample ID: CONF-7
 Date collected: 1/6/14
 Matrix: SOIL
 Solids, %: 90.08
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	175	0.35	mg/kg	1/7/14	1/8/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0106-23
 Sample ID: CONF-8
 Date collected: 1/6/14
 Matrix: SOIL
 Solids, %: 90.36
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	5.81	0.36	mg/kg	1/7/14	1/8/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank
 Matrix SOIL
 Solids, % 100
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Lead	7439-92-1	3050B	6010C	ND	0.33	mg/kg	1/7/14	1/7/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

LABORATORY CONTROL SAMPLE RECOVERY

Internal

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Lead	66.7	63.7	mg/kg	95	80	114	1/7/14

New England Testing Laboratory, Inc.

RESULTS: SEMIVOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corpoation
 Method: 8270 Lab Sample ID: CONF-5
 Matrix: (soil/water/air) SOIL Lab File ID: B010706.D
 Sample wt/vol: 20.62 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 12.54 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		170	U
110-86-1	Pyridine		110	U
108-95-2	Phenol		110	U
62-53-3	Aniline		110	U
111-44-4	bis(2-Chloroethyl)ether		110	U
95-57-8	2-Chlorophenol		110	U
541-73-1	1,3-Dichlorobenzene		110	U
106-46-7	1,4-Dichlorobenzene		110	U
95-50-1	1,2-Dichlorobenzene		110	U
95-48-7	2-Methylphenol		110	U
108-60-1	bis(2-chloroisopropyl)ether		110	U
106-44-5	3- & 4-Methylphenol		220	U
621-64-7	n-Nitroso-di-n-propylamine		110	U
67-72-1	Hexachloroethane		110	U
98-95-3	Nitrobenzene		110	U
78-59-1	Isophorone		110	U
88-75-5	2-Nitrophenol		280	U
105-67-9	2,4-Dimethylphenol		560	U
65-85-0	Benzoic acid		840	U
111-91-1	bis(2-Chloroethoxy)methane		110	U
120-83-2	2,4-Dichlorophenol		280	U
120-82-1	1,2,4-Trichlorobenzene		110	U
91-20-3	Naphthalene		110	U
106-47-8	4-Chloroaniline		110	U
87-68-3	Hexachlorobutadiene		110	U
59-50-7	4-Chloro-3-methylphenol		280	U
91-57-6	2-Methylnaphthalene		110	U
77-47-4	Hexachlorocyclopentadiene		110	U
88-06-2	2,4,6-Trichlorophenol		110	U
95-95-4	2,4,5-Trichlorophenol		110	U
91-58-7	2-Chloronaphthalene		110	U
88-74-4	2-Nitroaniline		110	U
131-11-3	Dimethyl phthalate		110	U
208-96-8	Acenaphthylene		110	U
606-20-2	2,6-Dinitrotoluene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: CONF-5
 Matrix: (soil/water/air) SOIL Lab File ID: B010706.D
 Sample wt/vol: 20.62 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 12.54 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		110	U
83-32-9	Acenaphthene		110	U
51-28-5	2,4-Dinitrophenol		280	U
100-02-7	4-Nitrophenol		280	U
132-64-9	Dibenzofuran		110	U
121-14-2	2,4-Dinitrotoluene		110	U
84-66-2	Diethyl phthalate		110	U
86-73-7	Fluorene		110	U
7005-72-3	4-Chlorophenyl phenyl ether		110	U
100-01-6	4-Nitroaniline		110	U
534-52-1	4,6-Dinitro-2-methylphenol		280	U
86-30-6	n-Nitrosodiphenylamine		110	U
101-55-3	4-Bromophenyl phenyl ether		110	U
118-74-1	Hexachlorobenzene		110	U
87-86-5	Pentachlorophenol		280	U
85-01-8	Phenanthrene		110	U
120-12-7	Anthracene		110	U
84-74-2	Di-n-butylphthalate		170	U
206-44-0	Fluoranthene		110	U
92-87-5	Benzidine		3300	U
129-00-0	Pyrene		110	U
85-68-7	Butyl benzyl phthalate		110	U
91-94-1	3,3'-Dichlorobenzidine		280	U
56-55-3	Benzo(a)anthracene		110	U
218-01-9	Chrysene		110	U
117-81-7	bis(2-Ethylhexyl)phthalate		170	U
117-84-0	Di-n-octyl phthalate		170	U
205-99-2	Benzo(b)fluoranthene		110	U
207-08-9	Benzo(k)fluoranthene		110	U
50-32-8	Benzo(a)pyrene		110	U
53-70-3	Dibenz(a,h)anthracene		110	U
193-39-5	Indeno(1,2,3-cd)pyrene		110	U
191-24-2	Benzo(g,h,i)perylene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corpoation
 Method: 8270 Lab Sample ID: CONF-6
 Matrix: (soil/water/air) SOIL Lab File ID: B010707.D
 Sample wt/vol: 20.142 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 7.93 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		160	U
110-86-1	Pyridine		110	U
108-95-2	Phenol		110	U
62-53-3	Aniline		110	U
111-44-4	bis(2-Chloroethyl)ether		110	U
95-57-8	2-Chlorophenol		110	U
541-73-1	1,3-Dichlorobenzene		110	U
106-46-7	1,4-Dichlorobenzene		110	U
95-50-1	1,2-Dichlorobenzene		110	U
95-48-7	2-Methylphenol		110	U
108-60-1	bis(2-chloroisopropyl)ether		110	U
106-44-5	3- & 4-Methylphenol		220	U
621-64-7	n-Nitroso-di-n-propylamine		110	U
67-72-1	Hexachloroethane		110	U
98-95-3	Nitrobenzene		110	U
78-59-1	Isophorone		110	U
88-75-5	2-Nitrophenol		270	U
105-67-9	2,4-Dimethylphenol		540	U
65-85-0	Benzoic acid		810	U
111-91-1	bis(2-Chloroethoxy)methane		110	U
120-83-2	2,4-Dichlorophenol		270	U
120-82-1	1,2,4-Trichlorobenzene		110	U
91-20-3	Naphthalene		110	U
106-47-8	4-Chloroaniline		110	U
87-68-3	Hexachlorobutadiene		110	U
59-50-7	4-Chloro-3-methylphenol		270	U
91-57-6	2-Methylnaphthalene		110	U
77-47-4	Hexachlorocyclopentadiene		110	U
88-06-2	2,4,6-Trichlorophenol		110	U
95-95-4	2,4,5-Trichlorophenol		110	U
91-58-7	2-Chloronaphthalene		110	U
88-74-4	2-Nitroaniline		110	U
131-11-3	Dimethyl phthalate		110	U
208-96-8	Acenaphthylene		110	U
606-20-2	2,6-Dinitrotoluene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: CONF-6
 Matrix: (soil/water/air) SOIL Lab File ID: B010707.D
 Sample wt/vol: 20.142 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 7.93 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		110	U
83-32-9	Acenaphthene		110	U
51-28-5	2,4-Dinitrophenol		270	U
100-02-7	4-Nitrophenol		270	U
132-64-9	Dibenzofuran		110	U
121-14-2	2,4-Dinitrotoluene		110	U
84-66-2	Diethyl phthalate		110	U
86-73-7	Fluorene		110	U
7005-72-3	4-Chlorophenyl phenyl ether		110	U
100-01-6	4-Nitroaniline		110	U
534-52-1	4,6-Dinitro-2-methylphenol		270	U
86-30-6	n-Nitrosodiphenylamine		110	U
101-55-3	4-Bromophenyl phenyl ether		110	U
118-74-1	Hexachlorobenzene		110	U
87-86-5	Pentachlorophenol		270	U
85-01-8	Phenanthrene		110	U
120-12-7	Anthracene		110	U
84-74-2	Di-n-butylphthalate		160	U
206-44-0	Fluoranthene		110	U
92-87-5	Benzidine		3200	U
129-00-0	Pyrene		110	U
85-68-7	Butyl benzyl phthalate		110	U
91-94-1	3,3'-Dichlorobenzidine		270	U
56-55-3	Benzo(a)anthracene		110	U
218-01-9	Chrysene		110	U
117-81-7	bis(2-Ethylhexyl)phthalate		160	U
117-84-0	Di-n-octyl phthalate		160	U
205-99-2	Benzo(b)fluoranthene		110	U
207-08-9	Benzo(k)fluoranthene		110	U
50-32-8	Benzo(a)pyrene		110	U
53-70-3	Dibenz(a,h)anthracene		110	U
193-39-5	Indeno(1,2,3-cd)pyrene		110	U
191-24-2	Benzo(g,h,i)perylene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corpoation
 Method: 8270 Lab Sample ID: CONF-7
 Matrix: (soil/water/air) SOIL Lab File ID: B010708.D
 Sample wt/vol: 20.244 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 9.92 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		160	U
110-86-1	Pyridine		110	U
108-95-2	Phenol		110	U
62-53-3	Aniline		110	U
111-44-4	bis(2-Chloroethyl)ether		110	U
95-57-8	2-Chlorophenol		110	U
541-73-1	1,3-Dichlorobenzene		110	U
106-46-7	1,4-Dichlorobenzene		110	U
95-50-1	1,2-Dichlorobenzene		110	U
95-48-7	2-Methylphenol		110	U
108-60-1	bis(2-chloroisopropyl)ether		110	U
106-44-5	3- & 4-Methylphenol		220	U
621-64-7	n-Nitroso-di-n-propylamine		110	U
67-72-1	Hexachloroethane		110	U
98-95-3	Nitrobenzene		110	U
78-59-1	Isophorone		110	U
88-75-5	2-Nitrophenol		270	U
105-67-9	2,4-Dimethylphenol		550	U
65-85-0	Benzoic acid		820	U
111-91-1	bis(2-Chloroethoxy)methane		110	U
120-83-2	2,4-Dichlorophenol		270	U
120-82-1	1,2,4-Trichlorobenzene		110	U
91-20-3	Naphthalene		110	U
106-47-8	4-Chloroaniline		110	U
87-68-3	Hexachlorobutadiene		110	U
59-50-7	4-Chloro-3-methylphenol		270	U
91-57-6	2-Methylnaphthalene		110	U
77-47-4	Hexachlorocyclopentadiene		110	U
88-06-2	2,4,6-Trichlorophenol		110	U
95-95-4	2,4,5-Trichlorophenol		110	U
91-58-7	2-Chloronaphthalene		110	U
88-74-4	2-Nitroaniline		110	U
131-11-3	Dimethyl phthalate		110	U
208-96-8	Acenaphthylene		110	U
606-20-2	2,6-Dinitrotoluene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: CONF-7
 Matrix: (soil/water/air) SOIL Lab File ID: B010708.D
 Sample wt/vol: 20.244 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 9.92 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		110	U
83-32-9	Acenaphthene		110	U
51-28-5	2,4-Dinitrophenol		270	U
100-02-7	4-Nitrophenol		270	U
132-64-9	Dibenzofuran		110	U
121-14-2	2,4-Dinitrotoluene		110	U
84-66-2	Diethyl phthalate		110	U
86-73-7	Fluorene		110	U
7005-72-3	4-Chlorophenyl phenyl ether		110	U
100-01-6	4-Nitroaniline		110	U
534-52-1	4,6-Dinitro-2-methylphenol		270	U
86-30-6	n-Nitrosodiphenylamine		110	U
101-55-3	4-Bromophenyl phenyl ether		110	U
118-74-1	Hexachlorobenzene		110	U
87-86-5	Pentachlorophenol		270	U
85-01-8	Phenanthrene		170	
120-12-7	Anthracene		110	U
84-74-2	Di-n-butylphthalate		160	U
206-44-0	Fluoranthene		890	
92-87-5	Benzidine		3300	U
129-00-0	Pyrene		790	
85-68-7	Butyl benzyl phthalate		110	U
91-94-1	3,3'-Dichlorobenzidine		270	U
56-55-3	Benzo(a)anthracene		440	
218-01-9	Chrysene		470	
117-81-7	bis(2-Ethylhexyl)phthalate		160	U
117-84-0	Di-n-octyl phthalate		160	U
205-99-2	Benzo(b)fluoranthene		710	
207-08-9	Benzo(k)fluoranthene		250	
50-32-8	Benzo(a)pyrene		500	
53-70-3	Dibenz(a,h)anthracene		110	U
193-39-5	Indeno(1,2,3-cd)pyrene		360	
191-24-2	Benzo(g,h,i)perylene		280	

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corpoation
 Method: 8270 Lab Sample ID: CONF-8
 Matrix: (soil/water/air) SOIL Lab File ID: B010709.D
 Sample wt/vol: 20.144 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 9.64 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		170	U
110-86-1	Pyridine		110	U
108-95-2	Phenol		110	U
62-53-3	Aniline		110	U
111-44-4	bis(2-Chloroethyl)ether		110	U
95-57-8	2-Chlorophenol		110	U
541-73-1	1,3-Dichlorobenzene		110	U
106-46-7	1,4-Dichlorobenzene		110	U
95-50-1	1,2-Dichlorobenzene		110	U
95-48-7	2-Methylphenol		110	U
108-60-1	bis(2-chloroisopropyl)ether		110	U
106-44-5	3- & 4-Methylphenol		220	U
621-64-7	n-Nitroso-di-n-propylamine		110	U
67-72-1	Hexachloroethane		110	U
98-95-3	Nitrobenzene		110	U
78-59-1	Isophorone		110	U
88-75-5	2-Nitrophenol		280	U
105-67-9	2,4-Dimethylphenol		550	U
65-85-0	Benzoic acid		830	U
111-91-1	bis(2-Chloroethoxy)methane		110	U
120-83-2	2,4-Dichlorophenol		280	U
120-82-1	1,2,4-Trichlorobenzene		110	U
91-20-3	Naphthalene		110	U
106-47-8	4-Chloroaniline		110	U
87-68-3	Hexachlorobutadiene		110	U
59-50-7	4-Chloro-3-methylphenol		280	U
91-57-6	2-Methylnaphthalene		110	U
77-47-4	Hexachlorocyclopentadiene		110	U
88-06-2	2,4,6-Trichlorophenol		110	U
95-95-4	2,4,5-Trichlorophenol		110	U
91-58-7	2-Chloronaphthalene		110	U
88-74-4	2-Nitroaniline		110	U
131-11-3	Dimethyl phthalate		110	U
208-96-8	Acenaphthylene		110	U
606-20-2	2,6-Dinitrotoluene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: CONF-8
 Matrix: (soil/water/air) SOIL Lab File ID: B010709.D
 Sample wt/vol: 20.144 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 9.64 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		110	U
83-32-9	Acenaphthene		110	U
51-28-5	2,4-Dinitrophenol		280	U
100-02-7	4-Nitrophenol		280	U
132-64-9	Dibenzofuran		110	U
121-14-2	2,4-Dinitrotoluene		110	U
84-66-2	Diethyl phthalate		110	U
86-73-7	Fluorene		110	U
7005-72-3	4-Chlorophenyl phenyl ether		110	U
100-01-6	4-Nitroaniline		110	U
534-52-1	4,6-Dinitro-2-methylphenol		280	U
86-30-6	n-Nitrosodiphenylamine		110	U
101-55-3	4-Bromophenyl phenyl ether		110	U
118-74-1	Hexachlorobenzene		110	U
87-86-5	Pentachlorophenol		280	U
85-01-8	Phenanthrene		110	U
120-12-7	Anthracene		110	U
84-74-2	Di-n-butylphthalate		170	U
206-44-0	Fluoranthene		110	U
92-87-5	Benzidine		3300	U
129-00-0	Pyrene		110	U
85-68-7	Butyl benzyl phthalate		110	U
91-94-1	3,3'-Dichlorobenzidine		280	U
56-55-3	Benzo(a)anthracene		110	U
218-01-9	Chrysene		110	U
117-81-7	bis(2-Ethylhexyl)phthalate		170	U
117-84-0	Di-n-octyl phthalate		170	U
205-99-2	Benzo(b)fluoranthene		110	U
207-08-9	Benzo(k)fluoranthene		110	U
50-32-8	Benzo(a)pyrene		110	U
53-70-3	Dibenz(a,h)anthracene		110	U
193-39-5	Indeno(1,2,3-cd)pyrene		110	U
191-24-2	Benzo(g,h,i)perylene		110	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corporation
 Method: 8270 Lab Sample ID: BSS010714
 Matrix: (soil/water/air) SOIL Lab File ID: B010703.D
 Sample wt/vol: 20 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 0 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
62-75-9	n-Nitrosodimethylamine		150	U
110-86-1	Pyridine		100	U
108-95-2	Phenol		100	U
62-53-3	Aniline		100	U
111-44-4	bis(2-Chloroethyl)ether		100	U
95-57-8	2-Chlorophenol		100	U
541-73-1	1,3-Dichlorobenzene		100	U
106-46-7	1,4-Dichlorobenzene		100	U
95-50-1	1,2-Dichlorobenzene		100	U
95-48-7	2-Methylphenol		100	U
108-60-1	bis(2-chloroisopropyl)ether		100	U
106-44-5	3- & 4-Methylphenol		200	U
621-64-7	n-Nitroso-di-n-propylamine		100	U
67-72-1	Hexachloroethane		100	U
98-95-3	Nitrobenzene		100	U
78-59-1	Isophorone		100	U
88-75-5	2-Nitrophenol		250	U
105-67-9	2,4-Dimethylphenol		500	U
65-85-0	Benzoic acid		750	U
111-91-1	bis(2-Chloroethoxy)methane		100	U
120-83-2	2,4-Dichlorophenol		250	U
120-82-1	1,2,4-Trichlorobenzene		100	U
91-20-3	Naphthalene		100	U
106-47-8	4-Chloroaniline		100	U
87-68-3	Hexachlorobutadiene		100	U
59-50-7	4-Chloro-3-methylphenol		250	U
91-57-6	2-Methylnaphthalene		100	U
77-47-4	Hexachlorocyclopentadiene		100	U
88-06-2	2,4,6-Trichlorophenol		100	U
95-95-4	2,4,5-Trichlorophenol		100	U
91-58-7	2-Chloronaphthalene		100	U
88-74-4	2-Nitroaniline		100	U
131-11-3	Dimethyl phthalate		100	U
208-96-8	Acenaphthylene		100	U
606-20-2	2,6-Dinitrotoluene		100	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Z0106-23 Client Name: Pare Corpoation
 Method: 8270 Lab Sample ID: BSS010714
 Matrix: (soil/water/air) SOIL Lab File ID: B010703.D
 Sample wt/vol: 20 (g/ml) G Date Sampled: 1/6/2014
 Level: (low/med) LOW Date Extracted: 1/7/2014
 % Moisture: 0 Date Analyzed: 1/7/2014
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0
 Injection Volume: 1.0 (uL)
 Analyst's Initials: JD

CAS NO.	COMPOUND	UNITS:	UG/KG	Q
99-09-2	3-Nitroaniline		100	U
83-32-9	Acenaphthene		100	U
51-28-5	2,4-Dinitrophenol		250	U
100-02-7	4-Nitrophenol		250	U
132-64-9	Dibenzofuran		100	U
121-14-2	2,4-Dinitrotoluene		100	U
84-66-2	Diethyl phthalate		100	U
86-73-7	Fluorene		100	U
7005-72-3	4-Chlorophenyl phenyl ether		100	U
100-01-6	4-Nitroaniline		100	U
534-52-1	4,6-Dinitro-2-methylphenol		250	U
86-30-6	n-Nitrosodiphenylamine		100	U
101-55-3	4-Bromophenyl phenyl ether		100	U
118-74-1	Hexachlorobenzene		100	U
87-86-5	Pentachlorophenol		250	U
85-01-8	Phenanthrene		100	U
120-12-7	Anthracene		100	U
84-74-2	Di-n-butylphthalate		150	U
206-44-0	Fluoranthene		100	U
92-87-5	Benzidine		3000	U
129-00-0	Pyrene		100	U
85-68-7	Butyl benzyl phthalate		100	U
91-94-1	3,3'-Dichlorobenzidine		250	U
56-55-3	Benzo(a)anthracene		100	U
218-01-9	Chrysene		100	U
117-81-7	bis(2-Ethylhexyl)phthalate		150	U
117-84-0	Di-n-octyl phthalate		150	U
205-99-2	Benzo(b)fluoranthene		100	U
207-08-9	Benzo(k)fluoranthene		100	U
50-32-8	Benzo(a)pyrene		100	U
53-70-3	Dibenz(a,h)anthracene		100	U
193-39-5	Indeno(1,2,3-cd)pyrene		100	U
191-24-2	Benzo(g,h,i)perylene		100	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: New England Testing Laboratory Case No.: Z0106-23
 Lab Code: RI010 Client Name: Pare Corporation
 Level: (low/med) LOW

	Sample ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
01	BSS010714	90	97	91	93	106	107	0
02	LSS010714	90	96	90	90	119	114	0
03	CONF-5	101	108	100	101	127	120	0
04	CONF-6	85	91	85	85	98	108	0
05	CONF-7	77	83	78	82	94	97	0
06	CONF-8	87	94	88	87	111	130	0

QC LIMITS

S1 = 2-Fluorophenol (27-130)
 S2 = Phenol-d6 (30-130)
 S3 = Nitrobenzene-d5 (35-130)
 S4 = 2-Fluorobiphenyl (36-130)
 S5 = 2,4,6-Tribromophenol (43-130)
 S6 = Terphenyl-d14 (30-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

New England Testing Laboratory, Inc.

Semivolatile Soil Laboratory Control Spike

Date Extracted: 1/7/2014

Date Analyzed: 1/7/2014

	Amount Spiked	Result,	Recovery	Lower Recovery	Upper Recovery
	ug/Kg	ug/Kg	%	Limit	Limit
n-Nitrosodimethylamine	2500	1500	60	40	130
Phenol	2500	1793	72	40	130
Aniline	2500	1938	78	40	130
bis(2-Chloroethyl)ether	2500	1671	67	40	130
2-Chlorophenol	2500	1801	72	40	130
1,3-Dichlorobenzene	2500	1557	62	40	130
1,4-Dichlorobenzene	2500	1583	63	40	130
1,2-Dichlorobenzene	2500	1626	65	40	130
2-Methylphenol	2500	1882	75	40	130
3- & 4-Methylphenol	2500	1935	77	40	130
n-Nitroso-di-n-propylamine	2500	1879	75	40	130
Hexachloroethane	2500	1550	62	40	130
Nitrobenzene	2500	1616	65	40	130
Isophorone	2500	1917	77	40	130
2-Nitrophenol	2500	1801	72	40	130
2,4-Dimethylphenol	2500	1843	74	40	130
bis(2-Chloroethoxy)methane	2500	1861	74	40	130
2,4-Dichlorophenol	2500	1925	77	40	130
1,2,4-Trichlorobenzene	2500	1673	67	40	130
Naphthalene	2500	1552	62	40	130
Hexachlorobutadiene	2500	1682	67	40	130
4-Chloro-3-methylphenol	2500	2039	82	40	130
2-Methylnaphthalene	2500	1724	69	40	130
2,4,6-Trichlorophenol	2500	2008	80	40	130
2,4,5-Trichlorophenol	2500	1933	77	40	130
2-Chloronaphthalene	2500	1677	67	40	130
2-Nitroaniline	2500	1954	78	40	130
Dimethyl phthalate	2500	1859	74	40	130
Acenaphthylene	2500	2077	83	40	130
2,6-Dinitrotoluene	2500	2114	85	40	130
Acenaphthene	2500	2051	82	40	130
4-Nitrophenol	2500	2177	87	40	130
Dibenzofuran	2500	1725	69	40	130
2,4-Dinitrotoluene	2500	2058	82	40	130
Diethyl phthalate	2500	1907	76	40	130
Fluorene	2500	2221	89	40	130

Semivolatile Soil Laboratory Control Spike

Date Extracted: 1/7/2014

Date Analyzed: 1/7/2014

	Amount Spiked	Result,	Recovery	Lower Recovery	Upper Recovery
	ug/Kg	ug/Kg	%	Limit	Limit
4-Chlorophenyl phenyl ether	2500	1739	70	40	130
n-Nitrosodiphenylamine	2500	2154	86	40	130
4-Bromophenyl phenyl ether	2500	1853	74	40	130
Hexachlorobenzene	2500	1886	75	40	130
Pentachlorophenol	2500	2474	99	40	130
Phenanthrene	2500	2225	89	40	130
Anthracene	2500	2210	88	40	130
Di-n-butylphthalate	2500	2157	86	40	130
Fluoranthene	2500	2384	95	40	130
Pyrene	2500	2303	92	40	130
Butyl benzyl phthalate	2500	2514	101	40	130
Benzo(a)anthracene	2500	2199	88	40	130
Chrysene	2500	2213	89	40	130
bis(2-Ethylhexyl)phthalate	2500	2561	102	40	130
Di-n-octyl phthalate	2500	3146	126	40	130
Benzo(b)fluoranthene	2500	2353	94	40	130
Benzo(k)fluoranthene	2500	2202	88	40	130
Benzo(a)pyrene	2500	2196	88	40	130
Indeno(1,2,3-cd)pyrene	2500	2229	89	40	130
Dibenz(a,h)anthracene	2500	2307	92	40	130
Benzo(g,h,i)perylene	2500	2080	83	40	130

RESULTS: VOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-5
 Matrix: (soil/water) SOIL Lab File ID: C010618.D
 Sample wt/vol: 17.5 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 12.54 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	33	U
74-83-9	Bromomethane	33	U
75-00-3	Chloroethane	33	U
67-64-1	Acetone	160	U
75-35-4	1,1-Dichloroethene	33	U
75-15-0	Carbon Disulfide	33	U
75-09-2	Methylene Chloride	33	U
1634-04-4	tert-Butyl methyl ether	33	U
156-60-5	trans-1,2 Dichloroethene	33	U
75-34-3	1,1-Dichloroethane	33	U
78-93-3	2-Butanone	160	U
594-20-7	2,2-Dichloropropane	33	U
156-59-2	cis-1,2-Dichloroethene	33	U
67-66-3	Chloroform	33	U
74-97-5	Bromochloromethane	33	U
71-55-6	1,1,1-Trichloroethane	33	U
563-58-6	1,1-Dichloropropene	33	U
56-23-5	Carbon Tetrachloride	33	U
71-43-2	Benzene	33	U
107-06-2	1,2-Dichloroethane	33	U
79-01-6	Trichloroethene	33	U
78-87-5	1,2-Dichloropropane	33	U
75-27-4	Bromodichloromethane	33	U
74-95-3	Dibromomethane	33	U
108-10-1	4-Methyl-2-pentanone	160	U
106-93-4	Ethylene Dibromide	33	U
10061-01-5	cis-1,3-Dichloropropene	33	U
108-88-3	Toluene	33	U
10061-02-6	Trans-1,3-Dichloropropene	33	U
79-00-5	1,1,2-Trichloroethane	33	U
591-78-6	2-Hexanone	160	U
127-18-4	Tetrachloroethene	33	U
124-48-1	Chlorodibromomethane	33	U
108-90-7	Chlorobenzene	33	U
630-20-6	1,1,1,2-Tetrachloroethane	33	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-5
 Matrix: (soil/water) SOIL Lab File ID: C010618.D
 Sample wt/vol: 17.5 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 12.54 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	33	U
1330-20-7	m & p-Xylene	66	U
95-47-6	o-Xylene	33	U
100-42-5	Styrene	33	U
75-25-2	Bromoform	33	U
98-82-8	Isopropylbenzene	33	U
79-34-5	1,1,2,2-Tetrachloroethane	33	U
108-86-1	Bromobenzene	33	U
96-18-4	1,2,3-Trichloropropane	33	U
95-49-8	2-Chlorotoluene	33	U
103-65-1	n-Propylbenzene	33	U
108-67-8	1,3,5-Trimethylbenzene	33	U
106-43-4	4-Chlorotoluene	33	U
98-06-6	tert-Butylbenzene	33	U
95-63-6	1,2,4-Trimethylbenzene	33	U
135-98-8	sec-Butylbenzene	33	U
99-87-6	p-Isopropyltoluene	33	U
74-87-3	Chloromethane	33	U
75-65-0	tert butyl alcohol	33	U
541-73-1	1,3-Dichlorobenzene	33	U
109-99-9	Tetrahydrofuran	33	U
106-46-7	1,4-Dichlorobenzene	33	U
60-29-7	Diethyl Ether	33	U
104-51-8	n-Butylbenzene	33	U
95-50-1	1,2-Dichlorobenzene	33	U
96-12-8	1,2-Dibromo-3-chloropropane	33	U
120-82-1	1,2,4-Trichlorobenzene	33	U
87-68-3	Hexachlorobutadiene	33	U
91-20-3	Naphthalene	33	U
87-61-6	1,2,3-Trichlorobenzene	33	U
994-05-8	Tert-amyl Methyl Ether	33	U
75-71-8	Dichlorodifluoromethane	33	U
142-28-9	1,3-Dichloropropane	33	U
75-69-4	Trichlorofluoromethane	33	U
637-92-3	Ethyl Tert-butyl ether	33	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-5
 Matrix: (soil/water) SOIL Lab File ID: C010618.D
 Sample wt/vol: 17.5 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 12.54 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	33	U
123-91-1	1,4-Dioxane	16000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-6
 Matrix: (soil/water) SOIL Lab File ID: C010619.D
 Sample wt/vol: 25.3 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 7.93 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	21	U
74-83-9	Bromomethane	21	U
75-00-3	Chloroethane	21	U
67-64-1	Acetone	110	U
75-35-4	1,1-Dichloroethene	21	U
75-15-0	Carbon Disulfide	21	U
75-09-2	Methylene Chloride	21	U
1634-04-4	tert-Butyl methyl ether	21	U
156-60-5	trans-1,2 Dichloroethene	21	U
75-34-3	1,1-Dichloroethane	21	U
78-93-3	2-Butanone	110	U
594-20-7	2,2-Dichloropropane	21	U
156-59-2	cis-1,2-Dichloroethene	21	U
67-66-3	Chloroform	21	U
74-97-5	Bromochloromethane	21	U
71-55-6	1,1,1-Trichloroethane	21	U
563-58-6	1,1-Dichloropropene	21	U
56-23-5	Carbon Tetrachloride	21	U
71-43-2	Benzene	21	U
107-06-2	1,2-Dichloroethane	21	U
79-01-6	Trichloroethene	21	U
78-87-5	1,2-Dichloropropane	21	U
75-27-4	Bromodichloromethane	21	U
74-95-3	Dibromomethane	21	U
108-10-1	4-Methyl-2-pentanone	110	U
106-93-4	Ethylene Dibromide	21	U
10061-01-5	cis-1,3-Dichloropropene	21	U
108-88-3	Toluene	21	U
10061-02-6	Trans-1,3-Dichloropropene	21	U
79-00-5	1,1,2-Trichloroethane	21	U
591-78-6	2-Hexanone	110	U
127-18-4	Tetrachloroethene	21	U
124-48-1	Chlorodibromomethane	21	U
108-90-7	Chlorobenzene	21	U
630-20-6	1,1,1,2-Tetrachloroethane	21	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-6
 Matrix: (soil/water) SOIL Lab File ID: C010619.D
 Sample wt/vol: 25.3 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 7.93 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	21	U
1330-20-7	m & p-Xylene	43	U
95-47-6	o-Xylene	21	U
100-42-5	Styrene	21	U
75-25-2	Bromoform	21	U
98-82-8	Isopropylbenzene	21	U
79-34-5	1,1,2,2-Tetrachloroethane	21	U
108-86-1	Bromobenzene	21	U
96-18-4	1,2,3-Trichloropropane	21	U
95-49-8	2-Chlorotoluene	21	U
103-65-1	n-Propylbenzene	21	U
108-67-8	1,3,5-Trimethylbenzene	21	U
106-43-4	4-Chlorotoluene	21	U
98-06-6	tert-Butylbenzene	21	U
95-63-6	1,2,4-Trimethylbenzene	21	U
135-98-8	sec-Butylbenzene	21	U
99-87-6	p-Isopropyltoluene	21	U
74-87-3	Chloromethane	21	U
75-65-0	tert butyl alcohol	21	U
541-73-1	1,3-Dichlorobenzene	21	U
109-99-9	Tetrahydrofuran	21	U
106-46-7	1,4-Dichlorobenzene	21	U
60-29-7	Diethyl Ether	21	U
104-51-8	n-Butylbenzene	21	U
95-50-1	1,2-Dichlorobenzene	21	U
96-12-8	1,2-Dibromo-3-chloropropane	21	U
120-82-1	1,2,4-Trichlorobenzene	21	U
87-68-3	Hexachlorobutadiene	21	U
91-20-3	Naphthalene	21	U
87-61-6	1,2,3-Trichlorobenzene	21	U
994-05-8	Tert-amyl Methyl Ether	21	U
75-71-8	Dichlorodifluoromethane	21	U
142-28-9	1,3-Dichloropropane	21	U
75-69-4	Trichlorofluoromethane	21	U
637-92-3	Ethyl Tert-butyl ether	21	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-6
 Matrix: (soil/water) SOIL Lab File ID: C010619.D
 Sample wt/vol: 25.3 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 7.93 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	21	U
123-91-1	1,4-Dioxane	11000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-7
 Matrix: (soil/water) SOIL Lab File ID: C010620.D
 Sample wt/vol: 24.9 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 9.92 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	22	U
74-83-9	Bromomethane	22	U
75-00-3	Chloroethane	22	U
67-64-1	Acetone	110	U
75-35-4	1,1-Dichloroethene	22	U
75-15-0	Carbon Disulfide	22	U
75-09-2	Methylene Chloride	22	U
1634-04-4	tert-Butyl methyl ether	22	U
156-60-5	trans-1,2 Dichloroethene	22	U
75-34-3	1,1-Dichloroethane	22	U
78-93-3	2-Butanone	110	U
594-20-7	2,2-Dichloropropane	22	U
156-59-2	cis-1,2-Dichloroethene	22	U
67-66-3	Chloroform	22	U
74-97-5	Bromochloromethane	22	U
71-55-6	1,1,1-Trichloroethane	22	U
563-58-6	1,1-Dichloropropene	22	U
56-23-5	Carbon Tetrachloride	22	U
71-43-2	Benzene	22	U
107-06-2	1,2-Dichloroethane	22	U
79-01-6	Trichloroethene	22	U
78-87-5	1,2-Dichloropropane	22	U
75-27-4	Bromodichloromethane	22	U
74-95-3	Dibromomethane	22	U
108-10-1	4-Methyl-2-pentanone	110	U
106-93-4	Ethylene Dibromide	22	U
10061-01-5	cis-1,3-Dichloropropene	22	U
108-88-3	Toluene	22	U
10061-02-6	Trans-1,3-Dichloropropene	22	U
79-00-5	1,1,2-Trichloroethane	22	U
591-78-6	2-Hexanone	110	U
127-18-4	Tetrachloroethene	22	U
124-48-1	Chlorodibromomethane	22	U
108-90-7	Chlorobenzene	22	U
630-20-6	1,1,1,2-Tetrachloroethane	22	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-7
 Matrix: (soil/water) SOIL Lab File ID: C010620.D
 Sample wt/vol: 24.9 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 9.92 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	22	U
1330-20-7	m & p-Xylene	45	U
95-47-6	o-Xylene	22	U
100-42-5	Styrene	22	U
75-25-2	Bromoform	22	U
98-82-8	Isopropylbenzene	22	U
79-34-5	1,1,2,2-Tetrachloroethane	22	U
108-86-1	Bromobenzene	22	U
96-18-4	1,2,3-Trichloropropane	22	U
95-49-8	2-Chlorotoluene	22	U
103-65-1	n-Propylbenzene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U
106-43-4	4-Chlorotoluene	22	U
98-06-6	tert-Butylbenzene	22	U
95-63-6	1,2,4-Trimethylbenzene	22	U
135-98-8	sec-Butylbenzene	22	U
99-87-6	p-Isopropyltoluene	22	U
74-87-3	Chloromethane	22	U
75-65-0	tert butyl alcohol	22	U
541-73-1	1,3-Dichlorobenzene	22	U
109-99-9	Tetrahydrofuran	22	U
106-46-7	1,4-Dichlorobenzene	22	U
60-29-7	Diethyl Ether	22	U
104-51-8	n-Butylbenzene	22	U
95-50-1	1,2-Dichlorobenzene	22	U
96-12-8	1,2-Dibromo-3-chloropropane	22	U
120-82-1	1,2,4-Trichlorobenzene	22	U
87-68-3	Hexachlorobutadiene	22	U
91-20-3	Naphthalene	22	U
87-61-6	1,2,3-Trichlorobenzene	22	U
994-05-8	Tert-amyl Methyl Ether	22	U
75-71-8	Dichlorodifluoromethane	22	U
142-28-9	1,3-Dichloropropane	22	U
75-69-4	Trichlorofluoromethane	22	U
637-92-3	Ethyl Tert-butyl ether	22	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-7
 Matrix: (soil/water) SOIL Lab File ID: C010620.D
 Sample wt/vol: 24.9 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 9.92 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	22	U
123-91-1	1,4-Dioxane	11000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-8
 Matrix: (soil/water) SOIL Lab File ID: C010621.D
 Sample wt/vol: 20.5 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 9.64 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	27	U
74-83-9	Bromomethane	27	U
75-00-3	Chloroethane	27	U
67-64-1	Acetone	140	U
75-35-4	1,1-Dichloroethene	27	U
75-15-0	Carbon Disulfide	27	U
75-09-2	Methylene Chloride	27	U
1634-04-4	tert-Butyl methyl ether	27	U
156-60-5	trans-1,2 Dichloroethene	27	U
75-34-3	1,1-Dichloroethane	27	U
78-93-3	2-Butanone	140	U
594-20-7	2,2-Dichloropropane	27	U
156-59-2	cis-1,2-Dichloroethene	27	U
67-66-3	Chloroform	27	U
74-97-5	Bromochloromethane	27	U
71-55-6	1,1,1-Trichloroethane	27	U
563-58-6	1,1-Dichloropropene	27	U
56-23-5	Carbon Tetrachloride	27	U
71-43-2	Benzene	27	U
107-06-2	1,2-Dichloroethane	27	U
79-01-6	Trichloroethene	27	U
78-87-5	1,2-Dichloropropane	27	U
75-27-4	Bromodichloromethane	27	U
74-95-3	Dibromomethane	27	U
108-10-1	4-Methyl-2-pentanone	140	U
106-93-4	Ethylene Dibromide	27	U
10061-01-5	cis-1,3-Dichloropropene	27	U
108-88-3	Toluene	27	U
10061-02-6	Trans-1,3-Dichloropropene	27	U
79-00-5	1,1,2-Trichloroethane	27	U
591-78-6	2-Hexanone	140	U
127-18-4	Tetrachloroethene	27	U
124-48-1	Chlorodibromomethane	27	U
108-90-7	Chlorobenzene	27	U
630-20-6	1,1,1,2-Tetrachloroethane	27	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-8
 Matrix: (soil/water) SOIL Lab File ID: C010621.D
 Sample wt/vol: 20.5 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 9.64 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	27	U
1330-20-7	m & p-Xylene	54	U
95-47-6	o-Xylene	27	U
100-42-5	Styrene	27	U
75-25-2	Bromoform	27	U
98-82-8	Isopropylbenzene	27	U
79-34-5	1,1,2,2-Tetrachloroethane	27	U
108-86-1	Bromobenzene	27	U
96-18-4	1,2,3-Trichloropropane	27	U
95-49-8	2-Chlorotoluene	27	U
103-65-1	n-Propylbenzene	27	U
108-67-8	1,3,5-Trimethylbenzene	27	U
106-43-4	4-Chlorotoluene	27	U
98-06-6	tert-Butylbenzene	27	U
95-63-6	1,2,4-Trimethylbenzene	27	U
135-98-8	sec-Butylbenzene	27	U
99-87-6	p-Isopropyltoluene	27	U
74-87-3	Chloromethane	27	U
75-65-0	tert butyl alcohol	27	U
541-73-1	1,3-Dichlorobenzene	27	U
109-99-9	Tetrahydrofuran	27	U
106-46-7	1,4-Dichlorobenzene	27	U
60-29-7	Diethyl Ether	27	U
104-51-8	n-Butylbenzene	27	U
95-50-1	1,2-Dichlorobenzene	27	U
96-12-8	1,2-Dibromo-3-chloropropane	27	U
120-82-1	1,2,4-Trichlorobenzene	27	U
87-68-3	Hexachlorobutadiene	27	U
91-20-3	Naphthalene	27	U
87-61-6	1,2,3-Trichlorobenzene	27	U
994-05-8	Tert-amyl Methyl Ether	27	U
75-71-8	Dichlorodifluoromethane	27	U
142-28-9	1,3-Dichloropropane	27	U
75-69-4	Trichlorofluoromethane	27	U
637-92-3	Ethyl Tert-butyl ether	27	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: CONF-8
 Matrix: (soil/water) SOIL Lab File ID: C010621.D
 Sample wt/vol: 20.5 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 9.64 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	27	U
123-91-1	1,4-Dioxane	14000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK010614
 Matrix: (soil/water) SOIL Lab File ID: C010607.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 0 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
67-64-1	Acetone	250	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon Disulfide	50	U
75-09-2	Methylene Chloride	50	U
1634-04-4	tert-Butyl methyl ether	50	U
156-60-5	trans-1,2 Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
78-93-3	2-Butanone	250	U
594-20-7	2,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
74-97-5	Bromochloromethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon Tetrachloride	50	U
71-43-2	Benzene	50	U
107-06-2	1,2-Dichloroethane	50	U
79-01-6	Trichloroethene	50	U
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
74-95-3	Dibromomethane	50	U
108-10-1	4-Methyl-2-pentanone	250	U
106-93-4	Ethylene Dibromide	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-88-3	Toluene	50	U
10061-02-6	Trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
124-48-1	Chlorodibromomethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK010614
 Matrix: (soil/water) SOIL Lab File ID: C010607.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 0 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	50	U
1330-20-7	m & p-Xylene	100	U
95-47-6	o-Xylene	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
103-65-1	n-Propylbenzene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	p-Isopropyltoluene	50	U
74-87-3	Chloromethane	50	U
75-65-0	tert butyl alcohol	50	U
541-73-1	1,3-Dichlorobenzene	50	U
109-99-9	Tetrahydrofuran	50	U
106-46-7	1,4-Dichlorobenzene	50	U
60-29-7	Diethyl Ether	50	U
104-51-8	n-Butylbenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
91-20-3	Naphthalene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
994-05-8	Tert-amyl Methyl Ether	50	U
75-71-8	Dichlorodifluoromethane	50	U
142-28-9	1,3-Dichloropropane	50	U
75-69-4	Trichlorofluoromethane	50	U
637-92-3	Ethyl Tert-butyl ether	50	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0106-23 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK010614
 Matrix: (soil/water) SOIL Lab File ID: C010607.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 1/6/2014
 % Moisture 0 Date Analyzed: 1/6/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	50	U
123-91-1	1,4-Dioxane	25000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.



2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NEW ENGLAND TESTING LAB Contract: CB-BUP-CONTA

Lab Code: RI010 Case No.: A0106-23 SAS No.: SDG No.: PARE

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VLCS010614	106	99	96	0
02	VBLK010614	96	91	90	0
03	CONF-5	90	95	91	0
04	CONF-6	93	95	95	0
05	CONF-7	94	95	93	0
06	CONF-8	86	93	91	0

QC LIMITS

SMC1 = 4-Bromofluorobenzene (70-130)
SMC2 = Toluene-D8 (70-130)
SMC3 = 1,2-Dichloroethane-D4 (70-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

Volatile Organics Laboratory Control Spike

Date Analyzed: 01/06/2014

Sample ID: VLCS010614

Compound	Spike Added	Spike Result	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
1,1-Dichloroethene	50.0	46.6	93	70	129
Benzene	50.0	48.3	97	73	129
Trichloroethene	50.0	48.0	96	77	122
Toluene	50.0	46.9	94	75	123
Chlorobenzene	50.0	48.2	96	73	125



REPORT OF ANALYTICAL RESULTS

NETLAB Case Number Z1230-23B

Prepared for:

Attn: M. Dowdell
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

Report Date: January 10, 2014

Reviewed By:

Richard Warila
Laboratory Director

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, RI 02904

(401) 353-3420

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on December 30, 2013 and additional analysis was requested on January 9, 2014. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is Z1230-23B.

Custody records are included in this report.

Site: CB-BVP-Contaminated Soil

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
Waste	12/30/13	Soil	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Petroleum Hydrocarbons Fingerprint	3550C	8100M

CASE NARRATIVE:

Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Total Petroleum Hydrocarbons

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Waste

Parameter	Result
Hydrocarbon Fingerprint	The sample was analyzed by Method 8100M, and was compared to various petroleum hydrocarbon patterns. #2 Diesel Fuel/ Home Heating Oil was identified in the sample at a concentration of 1,033 mg/kg (ppm). The sample also had an additional hydrocarbon pattern resembling a heavy fuel such as #6 Fuel or Motor/Lubricating Oil at a concentration of 1,287 mg/kg (ppm).



REPORT OF ANALYTICAL RESULTS

NETLAB Case Number A0106-23A

Prepared for:

Attn: M. Dowdell
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

Report Date: January 30, 2014

Reviewed By:

Richard Warila
Laboratory Director

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, RI 02904

(401) 353-3420

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on January 6, 2013 and additional analysis was requested January 29, 2014. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is Z1230-23

Custody records are included in this report.

Site: CB-BVP-Contaminated Soil

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
CONF-5	1/6/14	Soil	Table II
CONF-6	1/6/14	Soil	Table II
CONF-7	1/6/14	Soil	Table II
CONF-8	1/6/14	Soil	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Metals		
Arsenic	3050B	6010C
Mercury	NA	7471B

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

METALS RESULTS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

New England Testing Laboratory, Inc.

METALS RESULTS



Case Number: A0106-23A
 Sample ID: CONF-5
 Date collected: 1/6/14
 Matrix: Soil
 Solids, %: 87.46
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	7.41	0.76	mg/kg	1/7/14	1/8/14
Mercury	7439-97-6	NA	7471B	0.211	0.079	mg/kg	1/30/14	1/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0106-23A
 Sample ID: CONF-6
 Date collected: 1/6/14
 Matrix: Soil
 Solids, %: 92.07
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	0.89	0.64	mg/kg	1/7/14	1/8/14
Mercury	7439-97-6	NA	7471B	ND	0.069	mg/kg	1/30/14	1/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0106-23A
 Sample ID: CONF-7
 Date collected: 1/6/14
 Matrix: Soil
 Solids, %: 90.08
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	2.20	0.70	mg/kg	1/7/14	1/8/14
Mercury	7439-97-6	NA	7471B	ND	0.071	mg/kg	1/30/14	1/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0106-23A
 Sample ID: CONF-8
 Date collected: 1/6/14
 Matrix: Soil
 Solids, %: 90.36
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	2.63	0.71	mg/kg	1/7/14	1/8/14
Mercury	7439-97-6	NA	7471B	ND	0.072	mg/kg	1/30/14	1/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank
 Matrix Soil
 Solids, % 100
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	ND	0.67	mg/kg	1/7/14	1/8/14
Mercury	7439-97-6	NA	7471B	ND	0.067	mg/kg	1/30/14	1/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

LABORATORY CONTROL SAMPLE RECOVERY

Internal

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Arsenic	13.3	15.7	mg/kg	118	80	120	1/8/14
Mercury	0.133	0.135	mg/kg	101	80	120	1/30/14

New England Testing Laboratory, Inc.

A0106-2SA

NEW ENGLAND TESTING LABORATORY, INC.
 1254 Douglas Avenue
 North Providence, RI 02904
 1-888-863-8522

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION		PRESERVATIVE				TESTS**				REMARKS	
DATE	TIME	COM P	OR A B	SAMPLE I.D.	NO. OF CONTAINERS	OTHER	SOIL	AQUEOUS	TPH	VOCs	SVOCs		TOTAL LEAD
13067.09		CB - BVP - CONTAMINATED SOIL											
CLIENT				PARE CORPORATION									
REPORT TO: MDOUSLELL@PARECORP.COM													
INVOICE TO: ACCOUNTING													
1/6/14	3:15 PM	X		CONF-5	2		X		X	X	X	X	
	3:20	X		CONF-6	2		X		X	X	X	X	
	3:25	X		CONF-7	2		X		X	X	X	X	
	3:30	X		CONF-8	2		X		X	X	X	X	
Special Instructions: List Specific Detection Limit Requirements: Additional analysis was requested by the client. (1-24-14) Turnaround (Business Days)													

PLEASE EXPEDITE TURNAROUND TIME TO 48 HRS (OR FASTER)

Laboratory Remarks:
 Temp. received: 6°C
 Cooled

Received by: (Signature) *[Signature]* Date/Time 1/6/14 3:45 PM
 PARE REFRIGERATOR 1/6/14 4:00 PM

Received by: (Signature) *[Signature]* Date/Time 1/6/14 4:16 PM
 PARE REFRIGERATOR 1/6/14 4:16 PM

Received by: (Signature) *[Signature]* Date/Time 1/6/14 4:42 PM
 PARE REFRIGERATOR 1/6/14 4:42 PM

**Netlab subcontracts the following tests: Radiologicals, Radon/Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates



REPORT OF ANALYTICAL RESULTS

NETLAB Case Number Z1230-23C

Prepared for:

Attn: M. Dowdell
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

Report Date: January 30, 2014

Reviewed By:

Richard Warila
Laboratory Director

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, RI 02904

(401) 353-3420

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on December 30, 2013 and additional analysis was requested January 29, 2014. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is Z1230-23C.

Custody records are included in this report.

Site: CB-BVP-Contaminated Soil

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
Conf-1	12/30/13	Soil	Table II
Conf-3	12/30/13	Soil	Table II
Conf-4	12/30/13	Soil	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Metals		
Arsenic	3050B	6010C
Mercury	NA	7471B

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

Sample analysis for mercury was performed outside of method recommended holding time.

METALS RESULTS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

New England Testing Laboratory, Inc.

METALS RESULTS



Case Number: Z1230-23C
 Sample ID: CONF-1
 Date collected: 12/30/13
 Matrix: Soil
 Solids, %: 89.35
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	5.12	0.73	mg/kg	1/6/14	1/6/14
Mercury	7439-97-6	NA	7471B	0.256	0.077	mg/kg	1/30/14	1/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: Z1230-23C
 Sample ID: CONF-3
 Date collected: 12/30/13
 Matrix: Soil
 Solids, %: 95.86
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	6.87	0.68	mg/kg	1/6/14	1/6/14
Mercury	7439-97-6	NA	7471B	ND	0.067	mg/kg	1/30/14	1/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: Z1230-23C
 Sample ID: CONF-4
 Date collected: 12/30/13
 Matrix: Soil
 Solids, %: 91.78
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	6.20	0.71	mg/kg	1/6/14	1/6/14
Mercury	7439-97-6	NA	7471B	ND	0.077	mg/kg	1/30/14	1/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank
 Matrix Soil
 Solids, % 100
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3050B	6010C	ND	0.67	mg/kg	1/6/14	1/6/14
Mercury	7439-97-6	NA	7471B	ND	0.067	mg/kg	1/30/14	1/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

LABORATORY CONTROL SAMPLE RECOVERY

Internal

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Arsenic	13.3	11.7	mg/kg	88	80	120	1/6/14
Mercury	0.133	0.135	mg/kg	101	80	120	1/30/14

New England Testing Laboratory, Inc.

**REPORT OF ANALYTICAL RESULTS****NETLAB Case Number A0204-22**

Prepared for:

Attn: S. Driscoll
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

Report Date: February 10, 2014

Reviewed By:

Richard Warila
Laboratory Director

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, RI 02904

(401) 353-3420

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on February 4, 2014. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is A0204-22.

Custody records are included in this report.

Site: Blackstone Valley Prep.-Cumberland, RI

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis
S-1 (2')	2/4/14	Soil	Table II
S-1 (7')	2/4/14	Soil	Table II
SC-1	2/4/14	Soil	Table II
SC-2	2/4/14	Soil	Table II
SC-3	2/4/14	Soil	Table II
SC-4	2/4/14	Soil	Table II
SC-5	2/4/14	Soil	Table II
S-6	2/4/14	Soil	Table II
S-7	2/4/14	Soil	Table II
S-8	2/4/14	Soil	Table II
S-2 (2')	2/4/14	Soil	Table II
S-2 (8')	2/4/14	Soil	Table II
S-3 (2')	2/4/14	Soil	Table II
S-3 (8')	2/4/14	Soil	Table II
S-4 (2')	2/4/14	Soil	Table II
S-4 (8')	2/4/14	Soil	Table II
S-5 (2')	2/4/14	Soil	Table II
S-5 (8')	2/4/14	Soil	Table II

TABLE II, Analysis and Methods

ANALYSIS	DETERMINATIVE METHOD
Total Petroleum Hydrocarbons	8100M
Semi-volatile Organic Compounds	8270D
Volatile Organic Compounds	8260B
Total Cyanide	9014
PCBS	8082A
Propylene Glycol Dinitrate	625/8270D Modified
Propylene Oxide	8100M
Total Metals	
Arsenic	6010C
Barium	6010C
Cadmium	6010C
Chromium	6010C
Lead	6010C
Mercury	7471A
Selenium	6010C
Silver	6010C

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Volatile Organic Compounds:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria. The compounds listed in Table 1 were screened by method 8260B utilizing ion reconstruction and NIST library search parameters. There were no detections of Table 1 compounds to an estimated detection limit of 100 ug/Kg.

Semi-volatile Compounds

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria. The compounds listed in Table 2 were screened by method 8270D utilizing ion reconstruction and NIST library search parameters. There were no detections of Table 2 compounds to an estimated detection limit of 500 ug/Kg.

Cyanide:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The compound Hydrogen Cyanide was not detected in any of the samples as no amount of total Cyanide was detected to a level of 0.25 mg/Kg.

PCBs

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

Total Petroleum Hydrocarbons

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Table 1

Acetaldehyde	Nitroso-di-N-butylamine, N
Acetonitrile	Nonane, n-
Acrolein	Pentane, n-
Acrylonitrile	Propyl benzene
Allyl Chloride	Tetrafluoroethane, 1,1,1,2-
Bromo-2-chloroethane, 1-	Tetrahydrofuran
Bromobenzene	Trichloro-1,2,2-trifluoroethane, 1,1,2-
Butadiene, 1,3-	Trichloropropene, 1,2,3-
Chloro-1,1-difluoroethane, 1-	Trimethylbenzene, 1,2,3-
Chloro-1,3-butadiene, 2-	Trimethylbenzene, 1,2,4-
Chlorodifluoromethane	Vinyl Bromide
Cumene(isopropylbenzene)	Acetone Cyanohydrin
Cyclohexane	Chlorobenzotrifluoride, 4-
Cyclohexene	Chloropicrin
Difluoroethane, 1,1-	Dihydrosafrole
Dimethylvinylchloride	Epoxybutane, 1,2-
Epichlorohydrin	Triethylamine
Ethyl Methacrylate	Ethyleneimine
Ethylene Oxide	Methyl Isocyanate
Hexane, N-	Nitromethane
Methacrylonitrile	Propionaldehyde
Methyl Acrylate	Propylene
Methyl Methacrylate	
Methyl Styrene (Mixed Isomers)	
Nitropropane, 2-	

Table 2

Biphenyl, 1,1'	Hexamethylene Diisocyanate, 1,6-
Bis(2-chloro-1-methylethyl) ether	Dicyclopentadiene
Chloromethyl Methyl Ether	

Cyanide

Sample ID	Result*	Reporting Limit*	Date Analyzed	Units
S-1 (2')	N.D.	0.25	2/6/14	mg/kg
S-1 (7')	N.D.	0.25	2/6/14	mg/kg
SC-1	N.D.	0.25	2/6/14	mg/kg
SC-2	N.D.	0.25	2/6/14	mg/kg
SC-3	N.D.	0.25	2/6/14	mg/kg
SC-4	N.D.	0.25	2/6/14	mg/kg
SC-5	N.D.	0.25	2/6/14	mg/kg
S-6	N.D.	0.25	2/6/14	mg/kg
S-7	N.D.	0.25	2/6/14	mg/kg
S-8	N.D.	0.25	2/6/14	mg/kg
S-2 (2')	N.D.	0.25	2/6/14	mg/kg
S-2 (8')	N.D.	0.25	2/6/14	mg/kg
S-3 (2')	N.D.	0.25	2/6/14	mg/kg
S-3 (8')	N.D.	0.25	2/6/14	mg/kg
S-4 (2')	N.D.	0.25	2/6/14	mg/kg
S-4 (8')	N.D.	0.25	2/6/14	mg/kg
S-5 (2')	N.D.	0.25	2/6/14	mg/kg
S-5 (8')	N.D.	0.25	2/6/14	mg/kg

*Dry Weight Basis
 N.D. = Not Detected

Propylene Glycol Dinitrate

Sample ID	Result*	Reporting Limit*	Date Analyzed	Units
S-1 (2')	N.D.	0.80	2/6/14	mg/kg
S-1 (7')	N.D.	0.80	2/6/14	mg/kg
SC-1	N.D.	0.80	2/6/14	mg/kg
SC-2	N.D.	0.80	2/6/14	mg/kg
SC-3	N.D.	0.80	2/6/14	mg/kg
SC-4	N.D.	0.80	2/6/14	mg/kg
SC-5	N.D.	0.80	2/6/14	mg/kg
S-6	N.D.	0.80	2/6/14	mg/kg
S-7	N.D.	0.80	2/6/14	mg/kg
S-8	N.D.	0.80	2/6/14	mg/kg
S-2 (2')	N.D.	0.80	2/6/14	mg/kg
S-2 (8')	N.D.	0.80	2/6/14	mg/kg
S-3 (2')	N.D.	0.80	2/6/14	mg/kg
S-3 (8')	N.D.	0.80	2/6/14	mg/kg
S-4 (2')	N.D.	0.80	2/6/14	mg/kg
S-4 (8')	N.D.	0.80	2/6/14	mg/kg
S-5 (2')	N.D.	0.80	2/6/14	mg/kg
S-5 (8')	N.D.	0.80	2/6/14	mg/kg

*Dry Weight Basis
N.D. = Not Detected

Propylene Oxide

Sample ID	Result*	Reporting Limit*	Date Analyzed	Units
S-1 (2')	N.D.	13.0	2/10/14	mg/kg
S-1 (7')	N.D.	13.0	2/10/14	mg/kg
SC-1	N.D.	13.0	2/10/14	mg/kg
SC-2	N.D.	13.0	2/10/14	mg/kg
SC-3	N.D.	13.0	2/10/14	mg/kg
SC-4	N.D.	13.0	2/10/14	mg/kg
SC-5	N.D.	13.0	2/10/14	mg/kg
S-6	N.D.	13.0	2/10/14	mg/kg
S-7	N.D.	13.0	2/10/14	mg/kg
S-8	N.D.	13.0	2/10/14	mg/kg
S-2 (2')	N.D.	13.0	2/10/14	mg/kg
S-2 (8')	N.D.	13.0	2/10/14	mg/kg
S-3 (2')	N.D.	13.0	2/10/14	mg/kg
S-3 (8')	N.D.	13.0	2/10/14	mg/kg
S-4 (2')	N.D.	13.0	2/10/14	mg/kg
S-4 (8')	N.D.	13.0	2/10/14	mg/kg
S-5 (2')	N.D.	13.0	2/10/14	mg/kg
S-5 (8')	N.D.	13.0	2/10/14	mg/kg

*Dry Weight Basis
N.D. = Not Detected

Sample:S-1 (2')		Analyst's Initials: BJ
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/6/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	72	44
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	98	62-151

Sample:S-1 (7')		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	43
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	94	62-151

ND = Not Detected

*Dry Weight Basis

Sample:SC-1		Analyst's Initials: BJ
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/6/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	77	42
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	102	62-151

Sample:SC-2		Analyst's Initials: BJ
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/6/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	184	42
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	102	62-151

ND = Not Detected

*Dry Weight Basis

Sample:SC-3		Analyst's Initials: BJ
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/6/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	232	42
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	102	62-151

Sample:SC-4		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	42
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	91	62-151

ND = Not Detected

*Dry Weight Basis

Sample:SC-5		Analyst's Initials: BJ
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	40
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	85	62-151

Sample:S-6		Analyst's Initials: BJ
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/6/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	302	42
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	124	62-151

ND = Not Detected

*Dry Weight Basis

Sample:S-7		Analyst's Initials: BJ
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/6/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	173	42
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	129	62-151

Sample:S-8		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	40
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	109	62-151

ND = Not Detected

*Dry Weight Basis

Sample:S-2 (2')		Analyst's Initials: BJ
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/6/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	126	41
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	119	62-151

Sample:S-2 (8')		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	42
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	102	62-151

ND = Not Detected

*Dry Weight Basis

Sample:S-3 (2')		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	38
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	98	62-151

Sample:S-3 (8')		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	39
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	88	62-151

ND = Not Detected

*Dry Weight Basis

Sample:S-4 (2')		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	42
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	98	62-151

Sample:S-4 (8')		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	40
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	81	62-151

ND = Not Detected

*Dry Weight Basis

Sample:S-5 (2')		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	41
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	88	62-151

Sample:S-5 (8')		Analyst's Initials: MM
Case No. A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: TPH		
Prep Method: EPA 3546	Date Extracted	Date Analyzed
Analytical Method: EPA 8100 M	2/5/14	2/5/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit mg/kg* (ppm)
Total Petroleum Hydrocarbons	ND	41
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	96	62-151

ND = Not Detected

*Dry Weight Basis

METALS RESULTS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-1 (2')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 85.77
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	5.19	1.36	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	27.1	0.68	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.68	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	6.54	0.68	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	193	0.68	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.080	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	3.06	1.36	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.68	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-1 (7')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 91.41
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	6.74	1.47	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	21.1	0.73	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.73	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	7.09	0.73	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	194	0.73	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	0.309	0.072	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	1.47	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.73	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: SC-1
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 89.32
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	3.44	1.31	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	34.8	0.66	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.66	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	5.52	0.66	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	330	0.66	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	0.641	0.075	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	2.80	1.31	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.66	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: SC-2
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 92.29
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	3.49	1.26	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	20.4	0.63	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.63	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	5.90	0.63	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	157	0.63	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	0.370	0.071	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	1.26	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.63	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: SC-3
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 90.05
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	4.87	1.45	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	44.1	0.72	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.72	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	4.86	0.72	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	468	0.72	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	2.58	0.771	mg/kg	2/7/14	2/7/14
Selenium	7782-49-2	3051A	6010C	2.44	1.45	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	1.34	0.72	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: SC-4
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 91.19
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	2.75	1.37	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	30.9	0.68	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.68	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	5.28	0.68	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	315	0.68	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	0.772	0.302	mg/kg	2/7/14	2/7/14
Selenium	7782-49-2	3051A	6010C	ND	1.37	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.68	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: SC-5
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 93.48
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3051A	6010C	1.77	1.43	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	19.0	0.71	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.71	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	3.73	0.71	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	101	0.71	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.070	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	1.54	1.43	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.71	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-6
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 92.86
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	3.28	1.21	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	19.0	0.60	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.60	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	5.69	0.60	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	36.8	0.60	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	0.088	0.071	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	1.21	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.60	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-7
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 92.19
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	5.27	1.21	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	24.2	0.60	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.60	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	7.15	0.60	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	53.9	0.60	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.075	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	1.21	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.60	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-8
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 96.05
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	3.40	1.29	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	11.0	0.64	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.64	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	3.79	0.64	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	7.78	0.64	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.066	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	1.48	1.29	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.64	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-2 (2')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 94.69
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3051A	6010C	2.11	1.32	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	12.2	0.66	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.66	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	4.43	0.66	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	6.73	0.66	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.069	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	3.17	1.32	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.66	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-2 (8')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 92.04
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	ND	1.20	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	19.7	0.60	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.60	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	2.73	0.60	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	43.3	0.60	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.074	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	1.20	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.60	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-3 (2')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 96.09
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	2.53	1.12	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	13.3	0.56	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.56	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	3.92	0.56	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	10.3	0.56	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.070	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	1.12	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.56	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-3 (8')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 97.85
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	1.43	1.16	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	6.69	0.58	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.58	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	3.20	0.58	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	2.11	0.58	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.067	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	4.07	1.16	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.58	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-4 (2')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 92.57
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	2.40	1.24	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	5.90	0.62	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.62	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	2.84	0.62	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	1.75	0.62	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.068	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	3.30	1.24	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.62	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-4 (8')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 95.8
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	5.53	1.13	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	14.8	0.56	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.56	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	3.59	0.56	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	9.03	0.56	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.069	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	1.13	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.56	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-5 (2')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 92.78
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	7.03	1.21	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	20.5	0.60	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.60	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	9.06	0.60	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	16.3	0.60	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.075	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	1.21	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.60	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0204-22
 Sample ID: S-5 (8')
 Date collected: 2/4/14
 Matrix: SOIL
 Solids, %: 92.77
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	10.8	1.29	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	25.1	0.65	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.65	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	8.46	0.65	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	8.21	0.65	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.070	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	1.29	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.65	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank
 Matrix SOIL
 Solids, % 100
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3051A	6010C	ND	0.67	mg/kg	2/6/14	2/6/14
Barium	7440-39-3	3051A	6010C	ND	0.33	mg/kg	2/6/14	2/6/14
Cadmium	7440-43-9	3051A	6010C	ND	0.33	mg/kg	2/6/14	2/6/14
Chromium	7440-47-3	3051A	6010C	ND	0.33	mg/kg	2/6/14	2/6/14
Lead	7439-92-1	3051A	6010C	ND	0.33	mg/kg	2/6/14	2/6/14
Mercury	7439-97-6	NA	7471B	ND	0.067	mg/kg	2/6/14	2/6/14
Selenium	7782-49-2	3051A	6010C	ND	0.67	mg/kg	2/6/14	2/6/14
Silver	7440-22-4	3051A	6010C	ND	0.33	mg/kg	2/6/14	2/6/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

LABORATORY CONTROL SAMPLE RECOVERY

Internal

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Arsenic	13.3	11.4	mg/kg	86	80	120	2/6/14
Barium	66.7	55.5	mg/kg	83	80	115	2/6/14
Cadmium	66.7	59.6	mg/kg	89	80	113	2/6/14
Chromium	66.7	57.2	mg/kg	86	80	115	2/6/14
Lead	66.7	57.1	mg/kg	86	80	114	2/6/14
Mercury	0.133	0.136	mg/kg	102	80	120	2/6/14
Selenium	13.3	13.0	mg/kg	98	80	120	2/6/14
Silver	33.3	32.3	mg/kg	97	80	120	2/6/14

RESULTS: PCBs

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

Sample: S-1 (2')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	102	45-109
DCBP	102	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: S-1 (7')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	98	45-109
DCBP	108	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: SC-1		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	103	45-109
DCBP	108	53-127

*Dry Weight Basis
N.D. = Not Detected

Sample: SC-2		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	105	45-109
DCBP	118	53-127

*Dry Weight Basis
N.D. = Not Detected

Sample: SC-3		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	104	45-109
DCBP	110	53-127

*Dry Weight Basis
N.D. = Not Detected

Sample: SC-4		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	109	45-109
DCBP	113	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: SC-5		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	103	45-109
DCBP	108	53-127

*Dry Weight Basis
N.D. = Not Detected

Sample: S-6		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	107	45-109
DCBP	110	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: S-7		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	105	45-109
DCBP	108	53-127

*Dry Weight Basis
N.D. = Not Detected

Sample: S-8		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	104	45-109
DCBP	110	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: S-2(2')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	105	45-109
DCBP	108	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: S-2(8')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	104	45-109
DCBP	123	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: S-3(2')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	104	45-109
DCBP	112	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: S-3(8')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	102	45-109
DCBP	108	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: S-4(2')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	102	45-109
DCBP	112	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: S-4(8')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	106	45-109
DCBP	115	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: S-5(2')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	106	45-109
DCBP	117	53-127

*Dry Weight Basis
N.D. = Not Detected

Sample: S-5(8')		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: 2/4/14		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	105	45-109
DCBP	114	53-127

*Dry Weight Basis
 N.D. = Not Detected

Sample: Method Blank		Analyst's Initials: BJ
Case No.: A0204-22		
Date Collected: NA		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3546	2/5/14	2/6/14
Analytical Method: EPA 8082A		
Compound	Concentration ug/kg (ppb)	Reporting Limit ug/kg (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	91	45-109
DCBP	101	53-127

N.D. = Not Detected

PCB Laboratory Control Spike

Subject: PCB	Date Extracted			Date Analyzed
Prep Method: EPA 3546	2/5/14			2/6/14
Analytical Method: EPA 8082A				
Compound	Amount Spiked mg/kg	Result mg/kg	Recovery %	Recovery Limits
Aroclor 1016	0.500	0.528	106	53-140
Aroclor 1260	0.500	0.551	110	60-126
Surrogates:				
Compound	% Recovery	Limits		
TCMX	100	45-109		
DCBP	105	53-127		

RESULTS: SEMIVOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-1 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-1 (2')
 Sample wt/vol: 15.386 (g/ml) G Lab File ID: B020626.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 14.23 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	230		U
110-86-1	Pyridine	150		U
108-95-2	Phenol	150		U
62-53-3	Aniline	150		U
111-44-4	bis(2-Chloroethyl)ether	150		U
95-57-8	2-Chlorophenol	150		U
541-73-1	1,3-Dichlorobenzene	150		U
106-46-7	1,4-Dichlorobenzene	150		U
95-50-1	1,2-Dichlorobenzene	150		U
95-48-7	2-Methylphenol	150		U
108-60-1	bis(2-chloroisopropyl)ether	150		U
106-44-5	3- & 4-Methylphenol	300		U
621-64-7	n-Nitroso-di-n-propylamine	150		U
67-72-1	Hexachloroethane	150		U
98-95-3	Nitrobenzene	150		U
78-59-1	Isophorone	150		U
88-75-5	2-Nitrophenol	380		U
105-67-9	2,4-Dimethylphenol	760		U
65-85-0	Benzoic acid	1100		U
111-91-1	bis(2-Chloroethoxy)methane	150		U
120-83-2	2,4-Dichlorophenol	380		U
120-82-1	1,2,4-Trichlorobenzene	150		U
91-20-3	Naphthalene	150		U
106-47-8	4-Chloroaniline	150		U
87-68-3	Hexachlorobutadiene	150		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-57-6	2-Methylnaphthalene	150		U
77-47-4	Hexachlorocyclopentadiene	150		U
88-06-2	2,4,6-Trichlorophenol	150		U
95-95-4	2,4,5-Trichlorophenol	150		U
91-58-7	2-Chloronaphthalene	150		U
88-74-4	2-Nitroaniline	150		U
131-11-3	Dimethyl phthalate	150		U
208-96-8	Acenaphthylene	150		U
606-20-2	2,6-Dinitrotoluene	150		U
99-09-2	3-Nitroaniline	150		U
83-32-9	Acenaphthene	150		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-1 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: S-1 (2')

Sample wt/vol: 15.386 (g/ml) G Lab File ID: B020626.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 14.23 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	150	U
121-14-2	2,4-Dinitrotoluene	150	U
84-66-2	Diethyl phthalate	150	U
86-73-7	Fluorene	150	U
7005-72-3	4-Chlorophenyl phenyl ether	150	U
100-01-6	4-Nitroaniline	150	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	n-Nitrosodiphenylamine	150	U
101-55-3	4-Bromophenyl phenyl ether	150	U
118-74-1	Hexachlorobenzene	150	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	150	U
120-12-7	Anthracene	150	U
84-74-2	Di-n-butylphthalate	230	U
206-44-0	Fluoranthene	150	U
92-87-5	Benzdine	4500	U
129-00-0	Pyrene	280	
85-68-7	Butyl benzyl phthalate	150	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	160	
218-01-9	Chrysene	190	
117-81-7	bis(2-Ethylhexyl)phthalate	230	U
117-84-0	Di-n-octyl phthalate	230	U
205-99-2	Benzo(b)fluoranthene	220	
207-08-9	Benzo(k)fluoranthene	150	U
50-32-8	Benzo(a)pyrene	170	
53-70-3	Dibenz(a,h)anthracene	150	U
193-39-5	Indeno(1,2,3-cd)pyrene	150	U
191-24-2	Benzo(g,h,i)perylene	150	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-1 (7')

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: S-1 (7')

Sample wt/vol: 15.117 (g/ml) G Lab File ID: B020620.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 8.59 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	220		U
110-86-1	Pyridine	150		U
108-95-2	Phenol	150		U
62-53-3	Aniline	150		U
111-44-4	bis(2-Chloroethyl)ether	150		U
95-57-8	2-Chlorophenol	150		U
541-73-1	1,3-Dichlorobenzene	150		U
106-46-7	1,4-Dichlorobenzene	150		U
95-50-1	1,2-Dichlorobenzene	150		U
95-48-7	2-Methylphenol	150		U
108-60-1	bis(2-chloroisopropyl)ether	150		U
106-44-5	3- & 4-Methylphenol	290		U
621-64-7	n-Nitroso-di-n-propylamine	150		U
67-72-1	Hexachloroethane	150		U
98-95-3	Nitrobenzene	150		U
78-59-1	Isophorone	150		U
88-75-5	2-Nitrophenol	360		U
105-67-9	2,4-Dimethylphenol	730		U
65-85-0	Benzoic acid	1100		U
111-91-1	bis(2-Chloroethoxy)methane	150		U
120-83-2	2,4-Dichlorophenol	360		U
120-82-1	1,2,4-Trichlorobenzene	150		U
91-20-3	Naphthalene	150		U
106-47-8	4-Chloroaniline	150		U
87-68-3	Hexachlorobutadiene	150		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-57-6	2-Methylnaphthalene	150		U
77-47-4	Hexachlorocyclopentadiene	150		U
88-06-2	2,4,6-Trichlorophenol	150		U
95-95-4	2,4,5-Trichlorophenol	150		U
91-58-7	2-Chloronaphthalene	150		U
88-74-4	2-Nitroaniline	150		U
131-11-3	Dimethyl phthalate	150		U
208-96-8	Acenaphthylene	150		U
606-20-2	2,6-Dinitrotoluene	150		U
99-09-2	3-Nitroaniline	150		U
83-32-9	Acenaphthene	150		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-1 (7')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-1 (7')
 Sample wt/vol: 15.117 (g/ml) G Lab File ID: B020620.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 8.59 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	150	U
121-14-2	2,4-Dinitrotoluene	150	U
84-66-2	Diethyl phthalate	150	U
86-73-7	Fluorene	150	U
7005-72-3	4-Chlorophenyl phenyl ether	150	U
100-01-6	4-Nitroaniline	150	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	n-Nitrosodiphenylamine	150	U
101-55-3	4-Bromophenyl phenyl ether	150	U
118-74-1	Hexachlorobenzene	150	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	150	U
120-12-7	Anthracene	150	U
84-74-2	Di-n-butylphthalate	220	U
206-44-0	Fluoranthene	150	U
92-87-5	Benzdine	4400	U
129-00-0	Pyrene	150	U
85-68-7	Butyl benzyl phthalate	150	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	150	U
218-01-9	Chrysene	150	U
117-81-7	bis(2-Ethylhexyl)phthalate	220	U
117-84-0	Di-n-octyl phthalate	220	U
205-99-2	Benzo(b)fluoranthene	150	U
207-08-9	Benzo(k)fluoranthene	150	U
50-32-8	Benzo(a)pyrene	150	U
53-70-3	Dibenz(a,h)anthracene	150	U
193-39-5	Indeno(1,2,3-cd)pyrene	150	U
191-24-2	Benzo(g,h,i)perylene	150	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SC-1

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: SC-1

Sample wt/vol: 15.922 (g/ml) G Lab File ID: B020619.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 10.68 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

62-75-9	n-Nitrosodimethylamine	210	U
110-86-1	Pyridine	140	U
108-95-2	Phenol	140	U
62-53-3	Aniline	140	U
111-44-4	bis(2-Chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	140	U
541-73-1	1,3-Dichlorobenzene	140	U
106-46-7	1,4-Dichlorobenzene	140	U
95-50-1	1,2-Dichlorobenzene	140	U
95-48-7	2-Methylphenol	140	U
108-60-1	bis(2-chloroisopropyl)ether	140	U
106-44-5	3- & 4-Methylphenol	280	U
621-64-7	n-Nitroso-di-n-propylamine	140	U
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	710	U
65-85-0	Benzoic acid	1100	U
111-91-1	bis(2-Chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	140	U
131-11-3	Dimethyl phthalate	140	U
208-96-8	Acenaphthylene	140	U
606-20-2	2,6-Dinitrotoluene	140	U
99-09-2	3-Nitroaniline	140	U
83-32-9	Acenaphthene	140	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SC-1

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: SC-1

Sample wt/vol: 15.922 (g/ml) G Lab File ID: B020619.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 10.68 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5	2,4-Dinitrophenol	350	U
100-02-7	4-Nitrophenol	350	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	720	
120-12-7	Anthracene	140	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	1200	
92-87-5	Benzidine	4200	U
129-00-0	Pyrene	1000	
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	480	
218-01-9	Chrysene	550	
117-81-7	bis(2-Ethylhexyl)phthalate	210	U
117-84-0	Di-n-octyl phthalate	210	U
205-99-2	Benzo(b)fluoranthene	570	
207-08-9	Benzo(k)fluoranthene	210	
50-32-8	Benzo(a)pyrene	420	
53-70-3	Dibenz(a,h)anthracene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	320	
191-24-2	Benzo(g,h,i)perylene	290	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SC-2

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: SC-2
 Sample wt/vol: 15.907 (g/ml) G Lab File ID: B020624.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.71 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	200		U
110-86-1	Pyridine	140		U
108-95-2	Phenol	140		U
62-53-3	Aniline	140		U
111-44-4	bis(2-Chloroethyl)ether	140		U
95-57-8	2-Chlorophenol	140		U
541-73-1	1,3-Dichlorobenzene	140		U
106-46-7	1,4-Dichlorobenzene	140		U
95-50-1	1,2-Dichlorobenzene	140		U
95-48-7	2-Methylphenol	140		U
108-60-1	bis(2-chloroisopropyl)ether	140		U
106-44-5	3- & 4-Methylphenol	270		U
621-64-7	n-Nitroso-di-n-propylamine	140		U
67-72-1	Hexachloroethane	140		U
98-95-3	Nitrobenzene	140		U
78-59-1	Isophorone	140		U
88-75-5	2-Nitrophenol	340		U
105-67-9	2,4-Dimethylphenol	680		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	140		U
120-83-2	2,4-Dichlorophenol	340		U
120-82-1	1,2,4-Trichlorobenzene	140		U
91-20-3	Naphthalene	140		U
106-47-8	4-Chloroaniline	140		U
87-68-3	Hexachlorobutadiene	140		U
59-50-7	4-Chloro-3-methylphenol	340		U
91-57-6	2-Methylnaphthalene	140		U
77-47-4	Hexachlorocyclopentadiene	140		U
88-06-2	2,4,6-Trichlorophenol	140		U
95-95-4	2,4,5-Trichlorophenol	140		U
91-58-7	2-Chloronaphthalene	140		U
88-74-4	2-Nitroaniline	140		U
131-11-3	Dimethyl phthalate	140		U
208-96-8	Acenaphthylene	140		U
606-20-2	2,6-Dinitrotoluene	140		U
99-09-2	3-Nitroaniline	140		U
83-32-9	Acenaphthene	140		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SC-2

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: SC-2
 Sample wt/vol: 15.907 (g/ml) G Lab File ID: B020624.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.71 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	340	U
100-02-7	4-Nitrophenol	340	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	340	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	170	
120-12-7	Anthracene	140	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	140	U
92-87-5	Benzdine	4100	U
129-00-0	Pyrene	360	
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	200	
218-01-9	Chrysene	210	
117-81-7	bis(2-Ethylhexyl)phthalate	200	U
117-84-0	Di-n-octyl phthalate	200	U
205-99-2	Benzo(b)fluoranthene	250	
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	190	
53-70-3	Dibenz(a,h)anthracene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	150	
191-24-2	Benzo(g,h,i)perylene	140	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SC-3

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: SC-3
 Sample wt/vol: 15.277 (g/ml) G Lab File ID: B020622.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 9.95 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	220		U
110-86-1	Pyridine	150		U
108-95-2	Phenol	150		U
62-53-3	Aniline	150		U
111-44-4	bis(2-Chloroethyl)ether	150		U
95-57-8	2-Chlorophenol	150		U
541-73-1	1,3-Dichlorobenzene	150		U
106-46-7	1,4-Dichlorobenzene	150		U
95-50-1	1,2-Dichlorobenzene	150		U
95-48-7	2-Methylphenol	150		U
108-60-1	bis(2-chloroisopropyl)ether	150		U
106-44-5	3- & 4-Methylphenol	290		U
621-64-7	n-Nitroso-di-n-propylamine	150		U
67-72-1	Hexachloroethane	150		U
98-95-3	Nitrobenzene	150		U
78-59-1	Isophorone	150		U
88-75-5	2-Nitrophenol	360		U
105-67-9	2,4-Dimethylphenol	730		U
65-85-0	Benzoic acid	1100		U
111-91-1	bis(2-Chloroethoxy)methane	150		U
120-83-2	2,4-Dichlorophenol	360		U
120-82-1	1,2,4-Trichlorobenzene	150		U
91-20-3	Naphthalene	150		U
106-47-8	4-Chloroaniline	150		U
87-68-3	Hexachlorobutadiene	150		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-57-6	2-Methylnaphthalene	150		U
77-47-4	Hexachlorocyclopentadiene	150		U
88-06-2	2,4,6-Trichlorophenol	150		U
95-95-4	2,4,5-Trichlorophenol	150		U
91-58-7	2-Chloronaphthalene	150		U
88-74-4	2-Nitroaniline	150		U
131-11-3	Dimethyl phthalate	150		U
208-96-8	Acenaphthylene	150		U
606-20-2	2,6-Dinitrotoluene	150		U
99-09-2	3-Nitroaniline	150		U
83-32-9	Acenaphthene	150		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SC-3

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: SC-3
 Sample wt/vol: 15.277 (g/ml) G Lab File ID: B020622.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 9.95 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	150	U
121-14-2	2,4-Dinitrotoluene	150	U
84-66-2	Diethyl phthalate	150	U
86-73-7	Fluorene	150	U
7005-72-3	4-Chlorophenyl phenyl ether	150	U
100-01-6	4-Nitroaniline	150	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	n-Nitrosodiphenylamine	150	U
101-55-3	4-Bromophenyl phenyl ether	150	U
118-74-1	Hexachlorobenzene	150	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	150	U
120-12-7	Anthracene	150	U
84-74-2	Di-n-butylphthalate	220	U
206-44-0	Fluoranthene	330	
92-87-5	Benzdine	4400	U
129-00-0	Pyrene	270	
85-68-7	Butyl benzyl phthalate	150	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	150	
218-01-9	Chrysene	170	
117-81-7	bis(2-Ethylhexyl)phthalate	220	U
117-84-0	Di-n-octyl phthalate	220	U
205-99-2	Benzo(b)fluoranthene	210	
207-08-9	Benzo(k)fluoranthene	150	U
50-32-8	Benzo(a)pyrene	150	
53-70-3	Dibenz(a,h)anthracene	150	U
193-39-5	Indeno(1,2,3-cd)pyrene	150	U
191-24-2	Benzo(g,h,i)perylene	150	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SC-4

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: SC-4
 Sample wt/vol: 15.494 (g/ml) G Lab File ID: B020609.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 8.81 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
62-75-9	n-Nitrosodimethylamine	210	U
110-86-1	Pyridine	140	U
108-95-2	Phenol	140	U
62-53-3	Aniline	140	U
111-44-4	bis(2-Chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	140	U
541-73-1	1,3-Dichlorobenzene	140	U
106-46-7	1,4-Dichlorobenzene	140	U
95-50-1	1,2-Dichlorobenzene	140	U
95-48-7	2-Methylphenol	140	U
108-60-1	bis(2-chloroisopropyl)ether	140	U
106-44-5	3- & 4-Methylphenol	280	U
621-64-7	n-Nitroso-di-n-propylamine	140	U
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	710	U
65-85-0	Benzoic acid	1100	U
111-91-1	bis(2-Chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	140	U
131-11-3	Dimethyl phthalate	140	U
208-96-8	Acenaphthylene	140	U
606-20-2	2,6-Dinitrotoluene	140	U
99-09-2	3-Nitroaniline	140	U
83-32-9	Acenaphthene	140	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SC-4

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: SC-4

Sample wt/vol: 15.494 (g/ml) G Lab File ID: B020609.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 8.81 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5	2,4-Dinitrophenol	350	U
100-02-7	4-Nitrophenol	350	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	140	U
92-87-5	Benzidine	4300	U
129-00-0	Pyrene	140	U
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	bis(2-Ethylhexyl)phthalate	210	U
117-84-0	Di-n-octyl phthalate	210	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
53-70-3	Dibenz(a,h)anthracene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SC-5

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: SC-5
 Sample wt/vol: 15.933 (g/ml) G Lab File ID: B020610.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 6.52 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	200		U
110-86-1	Pyridine	130		U
108-95-2	Phenol	130		U
62-53-3	Aniline	130		U
111-44-4	bis(2-Chloroethyl)ether	130		U
95-57-8	2-Chlorophenol	130		U
541-73-1	1,3-Dichlorobenzene	130		U
106-46-7	1,4-Dichlorobenzene	130		U
95-50-1	1,2-Dichlorobenzene	130		U
95-48-7	2-Methylphenol	130		U
108-60-1	bis(2-chloroisopropyl)ether	130		U
106-44-5	3- & 4-Methylphenol	270		U
621-64-7	n-Nitroso-di-n-propylamine	130		U
67-72-1	Hexachloroethane	130		U
98-95-3	Nitrobenzene	130		U
78-59-1	Isophorone	130		U
88-75-5	2-Nitrophenol	340		U
105-67-9	2,4-Dimethylphenol	670		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	130		U
120-83-2	2,4-Dichlorophenol	340		U
120-82-1	1,2,4-Trichlorobenzene	130		U
91-20-3	Naphthalene	130		U
106-47-8	4-Chloroaniline	130		U
87-68-3	Hexachlorobutadiene	130		U
59-50-7	4-Chloro-3-methylphenol	340		U
91-57-6	2-Methylnaphthalene	130		U
77-47-4	Hexachlorocyclopentadiene	130		U
88-06-2	2,4,6-Trichlorophenol	130		U
95-95-4	2,4,5-Trichlorophenol	130		U
91-58-7	2-Chloronaphthalene	130		U
88-74-4	2-Nitroaniline	130		U
131-11-3	Dimethyl phthalate	130		U
208-96-8	Acenaphthylene	130		U
606-20-2	2,6-Dinitrotoluene	130		U
99-09-2	3-Nitroaniline	130		U
83-32-9	Acenaphthene	130		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SC-5

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: SC-5

Sample wt/vol: 15.933 (g/ml) G Lab File ID: B020610.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 6.52 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
51-28-5	2,4-Dinitrophenol	340		U
100-02-7	4-Nitrophenol	340		U
132-64-9	Dibenzofuran	130		U
121-14-2	2,4-Dinitrotoluene	130		U
84-66-2	Diethyl phthalate	130		U
86-73-7	Fluorene	130		U
7005-72-3	4-Chlorophenyl phenyl ether	130		U
100-01-6	4-Nitroaniline	130		U
534-52-1	4,6-Dinitro-2-methylphenol	340		U
86-30-6	n-Nitrosodiphenylamine	130		U
101-55-3	4-Bromophenyl phenyl ether	130		U
118-74-1	Hexachlorobenzene	130		U
87-86-5	Pentachlorophenol	340		U
85-01-8	Phenanthrene	130		U
120-12-7	Anthracene	130		U
84-74-2	Di-n-butylphthalate	200		U
206-44-0	Fluoranthene	130		U
92-87-5	Benzidine	4000		U
129-00-0	Pyrene	130		U
85-68-7	Butyl benzyl phthalate	130		U
91-94-1	3,3'-Dichlorobenzidine	340		U
56-55-3	Benzo(a)anthracene	130		U
218-01-9	Chrysene	130		U
117-81-7	bis(2-Ethylhexyl)phthalate	200		U
117-84-0	Di-n-octyl phthalate	200		U
205-99-2	Benzo(b)fluoranthene	130		U
207-08-9	Benzo(k)fluoranthene	130		U
50-32-8	Benzo(a)pyrene	130		U
53-70-3	Dibenz(a,h)anthracene	130		U
193-39-5	Indeno(1,2,3-cd)pyrene	130		U
191-24-2	Benzo(g,h,i)perylene	130		U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-6

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: S-6

Sample wt/vol: 15.116 (g/ml) G Lab File ID: B020625.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 7.14 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

62-75-9	n-Nitrosodimethylamine	210	U
110-86-1	Pyridine	140	U
108-95-2	Phenol	140	U
62-53-3	Aniline	140	U
111-44-4	bis(2-Chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	140	U
541-73-1	1,3-Dichlorobenzene	140	U
106-46-7	1,4-Dichlorobenzene	140	U
95-50-1	1,2-Dichlorobenzene	140	U
95-48-7	2-Methylphenol	140	U
108-60-1	bis(2-chloroisopropyl)ether	140	U
106-44-5	3- & 4-Methylphenol	280	U
621-64-7	n-Nitroso-di-n-propylamine	140	U
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	710	U
65-85-0	Benzoic acid	1100	U
111-91-1	bis(2-Chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	140	U
131-11-3	Dimethyl phthalate	140	U
208-96-8	Acenaphthylene	160	
606-20-2	2,6-Dinitrotoluene	140	U
99-09-2	3-Nitroaniline	140	U
83-32-9	Acenaphthene	140	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-6

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: S-6

Sample wt/vol: 15.116 (g/ml) G Lab File ID: B020625.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 7.14 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	230	
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	2300	
120-12-7	Anthracene	410	
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	140	U
92-87-5	Benzidine	4300	U
129-00-0	Pyrene	2700	
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	1400	
218-01-9	Chrysene	1500	
117-81-7	bis(2-Ethylhexyl)phthalate	210	U
117-84-0	Di-n-octyl phthalate	210	U
205-99-2	Benzo(b)fluoranthene	1700	
207-08-9	Benzo(k)fluoranthene	560	
50-32-8	Benzo(a)pyrene	1300	
53-70-3	Dibenz(a,h)anthracene	240	
193-39-5	Indeno(1,2,3-cd)pyrene	1000	
191-24-2	Benzo(g,h,i)perylene	930	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-7

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-7
 Sample wt/vol: 15.666 (g/ml) G Lab File ID: B020621.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.81 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	210		U
110-86-1	Pyridine	140		U
108-95-2	Phenol	140		U
62-53-3	Aniline	140		U
111-44-4	bis(2-Chloroethyl)ether	140		U
95-57-8	2-Chlorophenol	140		U
541-73-1	1,3-Dichlorobenzene	140		U
106-46-7	1,4-Dichlorobenzene	140		U
95-50-1	1,2-Dichlorobenzene	140		U
95-48-7	2-Methylphenol	140		U
108-60-1	bis(2-chloroisopropyl)ether	140		U
106-44-5	3- & 4-Methylphenol	280		U
621-64-7	n-Nitroso-di-n-propylamine	140		U
67-72-1	Hexachloroethane	140		U
98-95-3	Nitrobenzene	140		U
78-59-1	Isophorone	140		U
88-75-5	2-Nitrophenol	350		U
105-67-9	2,4-Dimethylphenol	690		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	140		U
120-83-2	2,4-Dichlorophenol	350		U
120-82-1	1,2,4-Trichlorobenzene	140		U
91-20-3	Naphthalene	140		U
106-47-8	4-Chloroaniline	140		U
87-68-3	Hexachlorobutadiene	140		U
59-50-7	4-Chloro-3-methylphenol	350		U
91-57-6	2-Methylnaphthalene	140		U
77-47-4	Hexachlorocyclopentadiene	140		U
88-06-2	2,4,6-Trichlorophenol	140		U
95-95-4	2,4,5-Trichlorophenol	140		U
91-58-7	2-Chloronaphthalene	140		U
88-74-4	2-Nitroaniline	140		U
131-11-3	Dimethyl phthalate	140		U
208-96-8	Acenaphthylene	140		U
606-20-2	2,6-Dinitrotoluene	140		U
99-09-2	3-Nitroaniline	140		U
83-32-9	Acenaphthene	140		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-7

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: S-7

Sample wt/vol: 15.666 (g/ml) G Lab File ID: B020621.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 7.81 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	350	U
100-02-7	4-Nitrophenol	350	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	740	
120-12-7	Anthracene	160	
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	140	U
92-87-5	Benzidine	4200	U
129-00-0	Pyrene	1100	
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	610	
218-01-9	Chrysene	650	
117-81-7	bis(2-Ethylhexyl)phthalate	210	U
117-84-0	Di-n-octyl phthalate	210	U
205-99-2	Benzo(b)fluoranthene	790	
207-08-9	Benzo(k)fluoranthene	280	
50-32-8	Benzo(a)pyrene	590	
53-70-3	Dibenz(a,h)anthracene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	
191-24-2	Benzo(g,h,i)perylene	390	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-8

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-8
 Sample wt/vol: 15.696 (g/ml) G Lab File ID: B020614.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 3.95 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	200		U
110-86-1	Pyridine	130		U
108-95-2	Phenol	130		U
62-53-3	Aniline	130		U
111-44-4	bis(2-Chloroethyl)ether	130		U
95-57-8	2-Chlorophenol	130		U
541-73-1	1,3-Dichlorobenzene	130		U
106-46-7	1,4-Dichlorobenzene	130		U
95-50-1	1,2-Dichlorobenzene	130		U
95-48-7	2-Methylphenol	130		U
108-60-1	bis(2-chloroisopropyl)ether	130		U
106-44-5	3- & 4-Methylphenol	270		U
621-64-7	n-Nitroso-di-n-propylamine	130		U
67-72-1	Hexachloroethane	130		U
98-95-3	Nitrobenzene	130		U
78-59-1	Isophorone	130		U
88-75-5	2-Nitrophenol	330		U
105-67-9	2,4-Dimethylphenol	660		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	130		U
120-83-2	2,4-Dichlorophenol	330		U
120-82-1	1,2,4-Trichlorobenzene	130		U
91-20-3	Naphthalene	130		U
106-47-8	4-Chloroaniline	130		U
87-68-3	Hexachlorobutadiene	130		U
59-50-7	4-Chloro-3-methylphenol	330		U
91-57-6	2-Methylnaphthalene	130		U
77-47-4	Hexachlorocyclopentadiene	130		U
88-06-2	2,4,6-Trichlorophenol	130		U
95-95-4	2,4,5-Trichlorophenol	130		U
91-58-7	2-Chloronaphthalene	130		U
88-74-4	2-Nitroaniline	130		U
131-11-3	Dimethyl phthalate	130		U
208-96-8	Acenaphthylene	130		U
606-20-2	2,6-Dinitrotoluene	130		U
99-09-2	3-Nitroaniline	130		U
83-32-9	Acenaphthene	130		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-8

Lab Name: New England Testing Laboratory Contract: Blackstone

Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE

Matrix: (soil/water) SOIL Lab Sample ID: S-8

Sample wt/vol: 15.696 (g/ml) G Lab File ID: B020614.D

Level: (low/med) LOW Date Received: 2/4/2014

% Moisture: 3.95 decanted:(Y/N) N Date Extracted: 2/6/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
51-28-5	2,4-Dinitrophenol	330		U
100-02-7	4-Nitrophenol	330		U
132-64-9	Dibenzofuran	130		U
121-14-2	2,4-Dinitrotoluene	130		U
84-66-2	Diethyl phthalate	130		U
86-73-7	Fluorene	130		U
7005-72-3	4-Chlorophenyl phenyl ether	130		U
100-01-6	4-Nitroaniline	130		U
534-52-1	4,6-Dinitro-2-methylphenol	330		U
86-30-6	n-Nitrosodiphenylamine	130		U
101-55-3	4-Bromophenyl phenyl ether	130		U
118-74-1	Hexachlorobenzene	130		U
87-86-5	Pentachlorophenol	330		U
85-01-8	Phenanthrene	130		U
120-12-7	Anthracene	130		U
84-74-2	Di-n-butylphthalate	200		U
206-44-0	Fluoranthene	130		U
92-87-5	Benzidine	4000		U
129-00-0	Pyrene	130		U
85-68-7	Butyl benzyl phthalate	130		U
91-94-1	3,3'-Dichlorobenzidine	330		U
56-55-3	Benzo(a)anthracene	130		U
218-01-9	Chrysene	130		U
117-81-7	bis(2-Ethylhexyl)phthalate	200		U
117-84-0	Di-n-octyl phthalate	200		U
205-99-2	Benzo(b)fluoranthene	130		U
207-08-9	Benzo(k)fluoranthene	130		U
50-32-8	Benzo(a)pyrene	130		U
53-70-3	Dibenz(a,h)anthracene	130		U
193-39-5	Indeno(1,2,3-cd)pyrene	130		U
191-24-2	Benzo(g,h,i)perylene	130		U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-2 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-2 (2')
 Sample wt/vol: 15.203 (g/ml) G Lab File ID: B020623.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 5.31 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	210		U
110-86-1	Pyridine	140		U
108-95-2	Phenol	140		U
62-53-3	Aniline	140		U
111-44-4	bis(2-Chloroethyl)ether	140		U
95-57-8	2-Chlorophenol	140		U
541-73-1	1,3-Dichlorobenzene	140		U
106-46-7	1,4-Dichlorobenzene	140		U
95-50-1	1,2-Dichlorobenzene	140		U
95-48-7	2-Methylphenol	140		U
108-60-1	bis(2-chloroisopropyl)ether	140		U
106-44-5	3- & 4-Methylphenol	280		U
621-64-7	n-Nitroso-di-n-propylamine	140		U
67-72-1	Hexachloroethane	140		U
98-95-3	Nitrobenzene	140		U
78-59-1	Isophorone	140		U
88-75-5	2-Nitrophenol	350		U
105-67-9	2,4-Dimethylphenol	690		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	140		U
120-83-2	2,4-Dichlorophenol	350		U
120-82-1	1,2,4-Trichlorobenzene	140		U
91-20-3	Naphthalene	140		U
106-47-8	4-Chloroaniline	140		U
87-68-3	Hexachlorobutadiene	140		U
59-50-7	4-Chloro-3-methylphenol	350		U
91-57-6	2-Methylnaphthalene	140		U
77-47-4	Hexachlorocyclopentadiene	140		U
88-06-2	2,4,6-Trichlorophenol	140		U
95-95-4	2,4,5-Trichlorophenol	140		U
91-58-7	2-Chloronaphthalene	140		U
88-74-4	2-Nitroaniline	140		U
131-11-3	Dimethyl phthalate	140		U
208-96-8	Acenaphthylene	140		U
606-20-2	2,6-Dinitrotoluene	140		U
99-09-2	3-Nitroaniline	140		U
83-32-9	Acenaphthene	140		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-2 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-2 (2')
 Sample wt/vol: 15.203 (g/ml) G Lab File ID: B020623.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 5.31 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	350	U
100-02-7	4-Nitrophenol	350	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	1300	
120-12-7	Anthracene	230	
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	140	U
92-87-5	Benzidine	4200	U
129-00-0	Pyrene	2000	
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1200	
117-81-7	bis(2-Ethylhexyl)phthalate	210	U
117-84-0	Di-n-octyl phthalate	210	U
205-99-2	Benzo(b)fluoranthene	1500	
207-08-9	Benzo(k)fluoranthene	550	
50-32-8	Benzo(a)pyrene	1100	
53-70-3	Dibenz(a,h)anthracene	190	
193-39-5	Indeno(1,2,3-cd)pyrene	910	
191-24-2	Benzo(g,h,i)perylene	790	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-2 (8')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-2 (8')
 Sample wt/vol: 15.13 (g/ml) G Lab File ID: B020618.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.96 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	220		U
110-86-1	Pyridine	140		U
108-95-2	Phenol	140		U
62-53-3	Aniline	140		U
111-44-4	bis(2-Chloroethyl)ether	140		U
95-57-8	2-Chlorophenol	140		U
541-73-1	1,3-Dichlorobenzene	140		U
106-46-7	1,4-Dichlorobenzene	140		U
95-50-1	1,2-Dichlorobenzene	140		U
95-48-7	2-Methylphenol	140		U
108-60-1	bis(2-chloroisopropyl)ether	140		U
106-44-5	3- & 4-Methylphenol	290		U
621-64-7	n-Nitroso-di-n-propylamine	140		U
67-72-1	Hexachloroethane	140		U
98-95-3	Nitrobenzene	140		U
78-59-1	Isophorone	140		U
88-75-5	2-Nitrophenol	360		U
105-67-9	2,4-Dimethylphenol	720		U
65-85-0	Benzoic acid	1100		U
111-91-1	bis(2-Chloroethoxy)methane	140		U
120-83-2	2,4-Dichlorophenol	360		U
120-82-1	1,2,4-Trichlorobenzene	140		U
91-20-3	Naphthalene	140		U
106-47-8	4-Chloroaniline	140		U
87-68-3	Hexachlorobutadiene	140		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-57-6	2-Methylnaphthalene	140		U
77-47-4	Hexachlorocyclopentadiene	140		U
88-06-2	2,4,6-Trichlorophenol	140		U
95-95-4	2,4,5-Trichlorophenol	140		U
91-58-7	2-Chloronaphthalene	140		U
88-74-4	2-Nitroaniline	140		U
131-11-3	Dimethyl phthalate	140		U
208-96-8	Acenaphthylene	140		U
606-20-2	2,6-Dinitrotoluene	140		U
99-09-2	3-Nitroaniline	140		U
83-32-9	Acenaphthene	140		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-2 (8')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-2 (8')
 Sample wt/vol: 15.13 (g/ml) G Lab File ID: B020618.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.96 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	350	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	720	
120-12-7	Anthracene	140	U
84-74-2	Di-n-butylphthalate	220	U
206-44-0	Fluoranthene	1200	
92-87-5	Benzidine	4300	U
129-00-0	Pyrene	1000	
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	500	
218-01-9	Chrysene	520	
117-81-7	bis(2-Ethylhexyl)phthalate	220	U
117-84-0	Di-n-octyl phthalate	220	U
205-99-2	Benzo(b)fluoranthene	630	
207-08-9	Benzo(k)fluoranthene	240	
50-32-8	Benzo(a)pyrene	460	
53-70-3	Dibenz(a,h)anthracene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	320	
191-24-2	Benzo(g,h,i)perylene	290	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-3 (2')
 Sample wt/vol: 15.582 (g/ml) G Lab File ID: B020611.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 3.91 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	200		U
110-86-1	Pyridine	130		U
108-95-2	Phenol	130		U
62-53-3	Aniline	130		U
111-44-4	bis(2-Chloroethyl)ether	130		U
95-57-8	2-Chlorophenol	130		U
541-73-1	1,3-Dichlorobenzene	130		U
106-46-7	1,4-Dichlorobenzene	130		U
95-50-1	1,2-Dichlorobenzene	130		U
95-48-7	2-Methylphenol	130		U
108-60-1	bis(2-chloroisopropyl)ether	130		U
106-44-5	3- & 4-Methylphenol	270		U
621-64-7	n-Nitroso-di-n-propylamine	130		U
67-72-1	Hexachloroethane	130		U
98-95-3	Nitrobenzene	130		U
78-59-1	Isophorone	130		U
88-75-5	2-Nitrophenol	330		U
105-67-9	2,4-Dimethylphenol	670		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	130		U
120-83-2	2,4-Dichlorophenol	330		U
120-82-1	1,2,4-Trichlorobenzene	130		U
91-20-3	Naphthalene	130		U
106-47-8	4-Chloroaniline	130		U
87-68-3	Hexachlorobutadiene	130		U
59-50-7	4-Chloro-3-methylphenol	330		U
91-57-6	2-Methylnaphthalene	130		U
77-47-4	Hexachlorocyclopentadiene	130		U
88-06-2	2,4,6-Trichlorophenol	130		U
95-95-4	2,4,5-Trichlorophenol	130		U
91-58-7	2-Chloronaphthalene	130		U
88-74-4	2-Nitroaniline	130		U
131-11-3	Dimethyl phthalate	130		U
208-96-8	Acenaphthylene	130		U
606-20-2	2,6-Dinitrotoluene	130		U
99-09-2	3-Nitroaniline	130		U
83-32-9	Acenaphthene	130		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-3 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-3 (2')
 Sample wt/vol: 15.582 (g/ml) G Lab File ID: B020611.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 3.91 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethyl phthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl phenyl ether	130	U
100-01-6	4-Nitroaniline	130	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	n-Nitrosodiphenylamine	130	U
101-55-3	4-Bromophenyl phenyl ether	130	U
118-74-1	Hexachlorobenzene	130	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	130	U
92-87-5	Benzidine	4000	U
129-00-0	Pyrene	130	U
85-68-7	Butyl benzyl phthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	130	U
117-81-7	bis(2-Ethylhexyl)phthalate	200	U
117-84-0	Di-n-octyl phthalate	200	U
205-99-2	Benzo(b)fluoranthene	130	U
207-08-9	Benzo(k)fluoranthene	130	U
50-32-8	Benzo(a)pyrene	130	U
53-70-3	Dibenz(a,h)anthracene	130	U
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-3 (8')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-3 (8')
 Sample wt/vol: 15.018 (g/ml) G Lab File ID: B020612.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 2.15 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	200		U
110-86-1	Pyridine	140		U
108-95-2	Phenol	140		U
62-53-3	Aniline	140		U
111-44-4	bis(2-Chloroethyl)ether	140		U
95-57-8	2-Chlorophenol	140		U
541-73-1	1,3-Dichlorobenzene	140		U
106-46-7	1,4-Dichlorobenzene	140		U
95-50-1	1,2-Dichlorobenzene	140		U
95-48-7	2-Methylphenol	140		U
108-60-1	bis(2-chloroisopropyl)ether	140		U
106-44-5	3- & 4-Methylphenol	270		U
621-64-7	n-Nitroso-di-n-propylamine	140		U
67-72-1	Hexachloroethane	140		U
98-95-3	Nitrobenzene	140		U
78-59-1	Isophorone	140		U
88-75-5	2-Nitrophenol	340		U
105-67-9	2,4-Dimethylphenol	680		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	140		U
120-83-2	2,4-Dichlorophenol	340		U
120-82-1	1,2,4-Trichlorobenzene	140		U
91-20-3	Naphthalene	140		U
106-47-8	4-Chloroaniline	140		U
87-68-3	Hexachlorobutadiene	140		U
59-50-7	4-Chloro-3-methylphenol	340		U
91-57-6	2-Methylnaphthalene	140		U
77-47-4	Hexachlorocyclopentadiene	140		U
88-06-2	2,4,6-Trichlorophenol	140		U
95-95-4	2,4,5-Trichlorophenol	140		U
91-58-7	2-Chloronaphthalene	140		U
88-74-4	2-Nitroaniline	140		U
131-11-3	Dimethyl phthalate	140		U
208-96-8	Acenaphthylene	140		U
606-20-2	2,6-Dinitrotoluene	140		U
99-09-2	3-Nitroaniline	140		U
83-32-9	Acenaphthene	140		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-3 (8')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-3 (8')
 Sample wt/vol: 15.018 (g/ml) G Lab File ID: B020612.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 2.15 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	340	U
100-02-7	4-Nitrophenol	340	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	340	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	140	U
92-87-5	Benzidine	4100	U
129-00-0	Pyrene	140	U
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	bis(2-Ethylhexyl)phthalate	200	U
117-84-0	Di-n-octyl phthalate	200	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
53-70-3	Dibenz(a,h)anthracene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-4 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-4 (2')
 Sample wt/vol: 15.508 (g/ml) G Lab File ID: B020615.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.43 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	210		U
110-86-1	Pyridine	140		U
108-95-2	Phenol	140		U
62-53-3	Aniline	140		U
111-44-4	bis(2-Chloroethyl)ether	140		U
95-57-8	2-Chlorophenol	140		U
541-73-1	1,3-Dichlorobenzene	140		U
106-46-7	1,4-Dichlorobenzene	140		U
95-50-1	1,2-Dichlorobenzene	140		U
95-48-7	2-Methylphenol	140		U
108-60-1	bis(2-chloroisopropyl)ether	140		U
106-44-5	3- & 4-Methylphenol	280		U
621-64-7	n-Nitroso-di-n-propylamine	140		U
67-72-1	Hexachloroethane	140		U
98-95-3	Nitrobenzene	140		U
78-59-1	Isophorone	140		U
88-75-5	2-Nitrophenol	350		U
105-67-9	2,4-Dimethylphenol	690		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	140		U
120-83-2	2,4-Dichlorophenol	350		U
120-82-1	1,2,4-Trichlorobenzene	140		U
91-20-3	Naphthalene	140		U
106-47-8	4-Chloroaniline	140		U
87-68-3	Hexachlorobutadiene	140		U
59-50-7	4-Chloro-3-methylphenol	350		U
91-57-6	2-Methylnaphthalene	140		U
77-47-4	Hexachlorocyclopentadiene	140		U
88-06-2	2,4,6-Trichlorophenol	140		U
95-95-4	2,4,5-Trichlorophenol	140		U
91-58-7	2-Chloronaphthalene	140		U
88-74-4	2-Nitroaniline	140		U
131-11-3	Dimethyl phthalate	140		U
208-96-8	Acenaphthylene	140		U
606-20-2	2,6-Dinitrotoluene	140		U
99-09-2	3-Nitroaniline	140		U
83-32-9	Acenaphthene	140		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-4 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-4 (2')
 Sample wt/vol: 15.508 (g/ml) G Lab File ID: B020615.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.43 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	350	U
100-02-7	4-Nitrophenol	350	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	140	U
92-87-5	Benzidine	4200	U
129-00-0	Pyrene	140	U
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	bis(2-Ethylhexyl)phthalate	210	U
117-84-0	Di-n-octyl phthalate	210	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
53-70-3	Dibenz(a,h)anthracene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-4 (8')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-4 (8')
 Sample wt/vol: 15.982 (g/ml) G Lab File ID: B020616.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 4.2 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	200		U
110-86-1	Pyridine	130		U
108-95-2	Phenol	130		U
62-53-3	Aniline	130		U
111-44-4	bis(2-Chloroethyl)ether	130		U
95-57-8	2-Chlorophenol	130		U
541-73-1	1,3-Dichlorobenzene	130		U
106-46-7	1,4-Dichlorobenzene	130		U
95-50-1	1,2-Dichlorobenzene	130		U
95-48-7	2-Methylphenol	130		U
108-60-1	bis(2-chloroisopropyl)ether	130		U
106-44-5	3- & 4-Methylphenol	260		U
621-64-7	n-Nitroso-di-n-propylamine	130		U
67-72-1	Hexachloroethane	130		U
98-95-3	Nitrobenzene	130		U
78-59-1	Isophorone	130		U
88-75-5	2-Nitrophenol	330		U
105-67-9	2,4-Dimethylphenol	650		U
65-85-0	Benzoic acid	980		U
111-91-1	bis(2-Chloroethoxy)methane	130		U
120-83-2	2,4-Dichlorophenol	330		U
120-82-1	1,2,4-Trichlorobenzene	130		U
91-20-3	Naphthalene	130		U
106-47-8	4-Chloroaniline	130		U
87-68-3	Hexachlorobutadiene	130		U
59-50-7	4-Chloro-3-methylphenol	330		U
91-57-6	2-Methylnaphthalene	130		U
77-47-4	Hexachlorocyclopentadiene	130		U
88-06-2	2,4,6-Trichlorophenol	130		U
95-95-4	2,4,5-Trichlorophenol	130		U
91-58-7	2-Chloronaphthalene	130		U
88-74-4	2-Nitroaniline	130		U
131-11-3	Dimethyl phthalate	130		U
208-96-8	Acenaphthylene	130		U
606-20-2	2,6-Dinitrotoluene	130		U
99-09-2	3-Nitroaniline	130		U
83-32-9	Acenaphthene	130		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-4 (8')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-4 (8')
 Sample wt/vol: 15.982 (g/ml) G Lab File ID: B020616.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 4.2 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
51-28-5	2,4-Dinitrophenol	330		U
100-02-7	4-Nitrophenol	330		U
132-64-9	Dibenzofuran	130		U
121-14-2	2,4-Dinitrotoluene	130		U
84-66-2	Diethyl phthalate	130		U
86-73-7	Fluorene	130		U
7005-72-3	4-Chlorophenyl phenyl ether	130		U
100-01-6	4-Nitroaniline	130		U
534-52-1	4,6-Dinitro-2-methylphenol	330		U
86-30-6	n-Nitrosodiphenylamine	130		U
101-55-3	4-Bromophenyl phenyl ether	130		U
118-74-1	Hexachlorobenzene	130		U
87-86-5	Pentachlorophenol	330		U
85-01-8	Phenanthrene	130		U
120-12-7	Anthracene	130		U
84-74-2	Di-n-butylphthalate	200		U
206-44-0	Fluoranthene	230		
92-87-5	Benzidine	3900		U
129-00-0	Pyrene	210		
85-68-7	Butyl benzyl phthalate	130		U
91-94-1	3,3'-Dichlorobenzidine	330		U
56-55-3	Benzo(a)anthracene	130		U
218-01-9	Chrysene	140		
117-81-7	bis(2-Ethylhexyl)phthalate	200		U
117-84-0	Di-n-octyl phthalate	200		U
205-99-2	Benzo(b)fluoranthene	170		
207-08-9	Benzo(k)fluoranthene	130		U
50-32-8	Benzo(a)pyrene	130		
53-70-3	Dibenz(a,h)anthracene	130		U
193-39-5	Indeno(1,2,3-cd)pyrene	130		U
191-24-2	Benzo(g,h,i)perylene	130		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-5 (2')
 Sample wt/vol: 15.948 (g/ml) G Lab File ID: B020617.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.22 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	200		U
110-86-1	Pyridine	130		U
108-95-2	Phenol	130		U
62-53-3	Aniline	130		U
111-44-4	bis(2-Chloroethyl)ether	130		U
95-57-8	2-Chlorophenol	130		U
541-73-1	1,3-Dichlorobenzene	130		U
106-46-7	1,4-Dichlorobenzene	130		U
95-50-1	1,2-Dichlorobenzene	130		U
95-48-7	2-Methylphenol	130		U
108-60-1	bis(2-chloroisopropyl)ether	130		U
106-44-5	3- & 4-Methylphenol	270		U
621-64-7	n-Nitroso-di-n-propylamine	130		U
67-72-1	Hexachloroethane	130		U
98-95-3	Nitrobenzene	130		U
78-59-1	Isophorone	130		U
88-75-5	2-Nitrophenol	340		U
105-67-9	2,4-Dimethylphenol	670		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	130		U
120-83-2	2,4-Dichlorophenol	340		U
120-82-1	1,2,4-Trichlorobenzene	130		U
91-20-3	Naphthalene	130		U
106-47-8	4-Chloroaniline	130		U
87-68-3	Hexachlorobutadiene	130		U
59-50-7	4-Chloro-3-methylphenol	340		U
91-57-6	2-Methylnaphthalene	130		U
77-47-4	Hexachlorocyclopentadiene	130		U
88-06-2	2,4,6-Trichlorophenol	130		U
95-95-4	2,4,5-Trichlorophenol	130		U
91-58-7	2-Chloronaphthalene	130		U
88-74-4	2-Nitroaniline	130		U
131-11-3	Dimethyl phthalate	130		U
208-96-8	Acenaphthylene	130		U
606-20-2	2,6-Dinitrotoluene	130		U
99-09-2	3-Nitroaniline	130		U
83-32-9	Acenaphthene	130		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-5 (2')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-5 (2')
 Sample wt/vol: 15.948 (g/ml) G Lab File ID: B020617.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.22 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
51-28-5	2,4-Dinitrophenol	330		J
100-02-7	4-Nitrophenol	340		U
132-64-9	Dibenzofuran	130		U
121-14-2	2,4-Dinitrotoluene	130		U
84-66-2	Diethyl phthalate	130		U
86-73-7	Fluorene	130		U
7005-72-3	4-Chlorophenyl phenyl ether	130		U
100-01-6	4-Nitroaniline	130		U
534-52-1	4,6-Dinitro-2-methylphenol	340		U
86-30-6	n-Nitrosodiphenylamine	130		U
101-55-3	4-Bromophenyl phenyl ether	130		U
118-74-1	Hexachlorobenzene	130		U
87-86-5	Pentachlorophenol	340		U
85-01-8	Phenanthrene	130		U
120-12-7	Anthracene	130		U
84-74-2	Di-n-butylphthalate	200		U
206-44-0	Fluoranthene	130		U
92-87-5	Benzidine	4000		U
129-00-0	Pyrene	130		U
85-68-7	Butyl benzyl phthalate	130		U
91-94-1	3,3'-Dichlorobenzidine	340		U
56-55-3	Benzo(a)anthracene	130		U
218-01-9	Chrysene	130		U
117-81-7	bis(2-Ethylhexyl)phthalate	200		U
117-84-0	Di-n-octyl phthalate	200		U
205-99-2	Benzo(b)fluoranthene	130		U
207-08-9	Benzo(k)fluoranthene	130		U
50-32-8	Benzo(a)pyrene	130		U
53-70-3	Dibenz(a,h)anthracene	130		U
193-39-5	Indeno(1,2,3-cd)pyrene	130		U
191-24-2	Benzo(g,h,i)perylene	130		U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-5 (8')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-5 (8')
 Sample wt/vol: 15.59 (g/ml) G Lab File ID: B020613.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.23 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	210		U
110-86-1	Pyridine	140		U
108-95-2	Phenol	140		U
62-53-3	Aniline	140		U
111-44-4	bis(2-Chloroethyl)ether	140		U
95-57-8	2-Chlorophenol	140		U
541-73-1	1,3-Dichlorobenzene	140		U
106-46-7	1,4-Dichlorobenzene	140		U
95-50-1	1,2-Dichlorobenzene	140		U
95-48-7	2-Methylphenol	140		U
108-60-1	bis(2-chloroisopropyl)ether	140		U
106-44-5	3- & 4-Methylphenol	280		U
621-64-7	n-Nitroso-di-n-propylamine	140		U
67-72-1	Hexachloroethane	140		U
98-95-3	Nitrobenzene	140		U
78-59-1	Isophorone	140		U
88-75-5	2-Nitrophenol	340		U
105-67-9	2,4-Dimethylphenol	690		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	140		U
120-83-2	2,4-Dichlorophenol	340		U
120-82-1	1,2,4-Trichlorobenzene	140		U
91-20-3	Naphthalene	140		U
106-47-8	4-Chloroaniline	140		U
87-68-3	Hexachlorobutadiene	140		U
59-50-7	4-Chloro-3-methylphenol	340		U
91-57-6	2-Methylnaphthalene	140		U
77-47-4	Hexachlorocyclopentadiene	140		U
88-06-2	2,4,6-Trichlorophenol	140		U
95-95-4	2,4,5-Trichlorophenol	140		U
91-58-7	2-Chloronaphthalene	140		U
88-74-4	2-Nitroaniline	140		U
131-11-3	Dimethyl phthalate	140		U
208-96-8	Acenaphthylene	140		U
606-20-2	2,6-Dinitrotoluene	140		U
99-09-2	3-Nitroaniline	140		U
83-32-9	Acenaphthene	140		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-5 (8')

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: S-5 (8')
 Sample wt/vol: 15.59 (g/ml) G Lab File ID: B020613.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 7.23 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	340	U
100-02-7	4-Nitrophenol	340	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethyl phthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl phenyl ether	140	U
100-01-6	4-Nitroaniline	140	U
534-52-1	4,6-Dinitro-2-methylphenol	340	U
86-30-6	n-Nitrosodiphenylamine	140	U
101-55-3	4-Bromophenyl phenyl ether	140	U
118-74-1	Hexachlorobenzene	140	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	140	U
92-87-5	Benzidine	4100	U
129-00-0	Pyrene	140	U
85-68-7	Butyl benzyl phthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	bis(2-Ethylhexyl)phthalate	210	U
117-84-0	Di-n-octyl phthalate	210	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
53-70-3	Dibenz(a,h)anthracene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BSS020614

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: BSS020614
 Sample wt/vol: 15 (g/ml) G Lab File ID: B020606.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 0 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	n-Nitrosodimethylamine	200		U
110-86-1	Pyridine	130		U
108-95-2	Phenol	130		U
62-53-3	Aniline	130		U
111-44-4	bis(2-Chloroethyl)ether	130		U
95-57-8	2-Chlorophenol	130		U
541-73-1	1,3-Dichlorobenzene	130		U
106-46-7	1,4-Dichlorobenzene	130		U
95-50-1	1,2-Dichlorobenzene	130		U
95-48-7	2-Methylphenol	130		U
108-60-1	bis(2-chloroisopropyl)ether	130		U
106-44-5	3- & 4-Methylphenol	270		U
621-64-7	n-Nitroso-di-n-propylamine	130		U
67-72-1	Hexachloroethane	130		U
98-95-3	Nitrobenzene	130		U
78-59-1	Isophorone	130		U
88-75-5	2-Nitrophenol	330		U
105-67-9	2,4-Dimethylphenol	670		U
65-85-0	Benzoic acid	1000		U
111-91-1	bis(2-Chloroethoxy)methane	130		U
120-83-2	2,4-Dichlorophenol	330		U
120-82-1	1,2,4-Trichlorobenzene	130		U
91-20-3	Naphthalene	130		U
106-47-8	4-Chloroaniline	130		U
87-68-3	Hexachlorobutadiene	130		U
59-50-7	4-Chloro-3-methylphenol	330		U
91-57-6	2-Methylnaphthalene	130		U
77-47-4	Hexachlorocyclopentadiene	130		U
88-06-2	2,4,6-Trichlorophenol	130		U
95-95-4	2,4,5-Trichlorophenol	130		U
91-58-7	2-Chloronaphthalene	130		U
88-74-4	2-Nitroaniline	130		U
131-11-3	Dimethyl phthalate	130		U
208-96-8	Acenaphthylene	130		U
606-20-2	2,6-Dinitrotoluene	130		U
99-09-2	3-Nitroaniline	130		U
83-32-9	Acenaphthene	130		U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BSS020614

Lab Name: New England Testing Laboratory Contract: Blackstone
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Matrix: (soil/water) SOIL Lab Sample ID: BSS020614
 Sample wt/vol: 15 (g/ml) G Lab File ID: B020606.D
 Level: (low/med) LOW Date Received: 2/4/2014
 % Moisture: 0 decanted:(Y/N) N Date Extracted: 2/6/2014
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/6/2014
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethyl phthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl phenyl ether	130	U
100-01-6	4-Nitroaniline	130	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	n-Nitrosodiphenylamine	130	U
101-55-3	4-Bromophenyl phenyl ether	130	U
118-74-1	Hexachlorobenzene	130	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	130	U
92-87-5	Benzdine	4000	U
129-00-0	Pyrene	130	U
85-68-7	Butyl benzyl phthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	130	U
117-81-7	bis(2-Ethylhexyl)phthalate	200	U
117-84-0	Di-n-octyl phthalate	200	U
205-99-2	Benzo(b)fluoranthene	130	U
207-08-9	Benzo(k)fluoranthene	130	U
50-32-8	Benzo(a)pyrene	130	U
53-70-3	Dibenz(a,h)anthracene	130	U
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: New England Testing Laboratory Contract: Blackstone Valley
 Lab Code: RI010 Case No.: A0204-22 SAS No.: PARE SDG No.: PARE
 Level: (low/med) LOW

	EPA SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
01	BSS020614	87	93	92	92	86	96	0
02	LCS020614	118	125	121	120	130	123	0
03	SC-4	93	98	94	97	102	100	0
04	SC-5	89	94	92	93	100	89	0
05	S-3 (2)	83	88	85	88	90	85	0
06	S-3 (8)	84	89	86	89	93	86	0
07	S-5 (8)	78	83	79	83	83	82	0
08	S-8	75	81	78	82	85	81	0
09	S-4 (2)	91	97	94	97	100	97	0
10	S-4 (8)	76	81	79	82	87	76	0
11	S-5 (2)	86	92	90	92	97	87	0
12	S-2 (8)	86	92	88	91	98	86	0
13	SC-1	76	80	76	81	91	93	0
14	S-1 (7)	93	99	94	97	106	102	0
15	S-7	82	86	84	88	95	86	0
16	SC-3	95	101	95	99	116	107	0
17	S-2 (2)	77	81	80	81	92	82	0
18	SC-2	80	85	80	84	97	96	0
19	S-6	82	88	84	88	99	96	0
20	S-1 (2)	87	93	90	92	106	91	0

QC LIMITS

- S1 = 2-Fluorophenol (27-130)
- S2 = Phenol-d6 (30-130)
- S3 = Nitrobenzene-d5 (35-130)
- S4 = 2-Fluorobiphenyl (36-130)
- S5 = 2,4,6-Tribromophenol (43-130)
- S6 = Terphenyl-d14 (30-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

Semivolatile Soil Laboratory Control Spike

Date Extracted: 2/6/2014

Date Analyzed: 2/6/2014

	Amount Spiked	Result,	Recovery	Lower Recovery	Upper Recovery
	ug/Kg	ug/Kg	%	Limit	Limit
n-Nitrosodimethylamine	2500	1682	67	40	130
Phenol	2500	1914	77	40	130
Aniline	2500	899	36	40	130
bis(2-Chloroethyl)ether	2500	1474	59	40	130
2-Chlorophenol	2500	1717	69	40	130
1,3-Dichlorobenzene	2500	1663	67	40	130
1,4-Dichlorobenzene	2500	1680	67	40	130
1,2-Dichlorobenzene	2500	1717	69	40	130
2-Methylphenol	2500	1944	78	40	130
3- & 4-Methylphenol	2500	1974	79	40	130
n-Nitroso-di-n-propylamine	2500	1803	72	40	130
Hexachloroethane	2500	1638	66	40	130
Nitrobenzene	2500	1681	67	40	130
Isophorone	2500	1781	71	40	130
2-Nitrophenol	2500	1687	67	40	130
2,4-Dimethylphenol	2500	1818	73	40	130
bis(2-Chloroethoxy)methane	2500	1832	73	40	130
2,4-Dichlorophenol	2500	1768	71	40	130
1,2,4-Trichlorobenzene	2500	1759	70	40	130
Naphthalene	2500	1753	70	40	130
Hexachlorobutadiene	2500	1800	72	40	130
4-Chloro-3-methylphenol	2500	1863	75	40	130
2-Methylnaphthalene	2500	1792	72	40	130
2,4,6-Trichlorophenol	2500	1813	73	40	130
2,4,5-Trichlorophenol	2500	1707	68	40	130
2-Chloronaphthalene	2500	1723	69	40	130
2-Nitroaniline	2500	1900	76	40	130
Dimethyl phthalate	2500	1708	68	40	130
Acenaphthylene	2500	1802	72	40	130
2,6-Dinitrotoluene	2500	1911	76	40	130
Acenaphthene	2500	1829	73	40	130
4-Nitrophenol	2500	1977	79	40	130
Dibenzofuran	2500	1881	75	40	130
2,4-Dinitrotoluene	2500	1983	79	40	130
Diethyl phthalate	2500	1748	70	40	130
Fluorene	2500	1755	70	40	130

Semivolatile Soil Laboratory Control Spike

Date Extracted: 2/6/2014
 Date Analyzed: 2/6/2014

	Amount Spiked	Result,	Recovery	Lower Recovery	Upper Recovery
	ug/Kg	ug/Kg	%	Limit	Limit
4-Chlorophenyl phenyl ether	2500	1688	68	40	130
n-Nitrosodiphenylamine	2500	2166	87	40	130
4-Bromophenyl phenyl ether	2500	1700	68	40	130
Hexachlorobenzene	2500	1756	70	40	130
Pentachlorophenol	2500	1669	67	40	130
Phenanthrene	2500	1849	74	40	130
Anthracene	2500	1835	73	40	130
Di-n-butylphthalate	2500	1759	70	40	130
Fluoranthene	2500	1877	75	40	130
Pyrene	2500	1770	71	40	130
Butyl benzyl phthalate	2500	1841	74	40	130
Benzo(a)anthracene	2500	1899	76	40	130
Chrysene	2500	1980	79	40	130
bis(2-Ethylhexyl)phthalate	2500	1979	79	40	130
Di-n-octyl phthalate	2500	1899	76	40	130
Benzo(b)fluoranthene	2500	1978	79	40	130
Benzo(k)fluoranthene	2500	1968	79	40	130
Benzo(a)pyrene	2500	1966	79	40	130
Indeno(1,2,3-cd)pyrene	2500	2076	83	40	130
Dibenz(a,h)anthracene	2500	2187	87	40	130
Benzo(g,h,i)perylene	2500	2146	86	40	130

RESULTS: VOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-1 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020427.D
 Sample wt/vol: 8.2 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 14.23 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	71	U
74-83-9	Bromomethane	71	U
75-00-3	Chloroethane	71	U
67-64-1	Acetone	360	U
75-35-4	1,1-Dichloroethene	71	U
75-15-0	Carbon Disulfide	71	U
75-09-2	Methylene Chloride	360	U
1634-04-4	tert-Butyl methyl ether	71	U
156-60-5	trans-1,2 Dichloroethene	71	U
75-34-3	1,1-Dichloroethane	71	U
78-93-3	2-Butanone	360	U
594-20-7	2,2-Dichloropropane	71	U
156-59-2	cis-1,2-Dichloroethene	71	U
67-66-3	Chloroform	71	U
74-97-5	Bromochloromethane	71	U
71-55-6	1,1,1-Trichloroethane	71	U
563-58-6	1,1-Dichloropropene	71	U
56-23-5	Carbon Tetrachloride	71	U
71-43-2	Benzene	71	U
107-06-2	1,2-Dichloroethane	71	U
79-01-6	Trichloroethene	71	U
78-87-5	1,2-Dichloropropane	71	U
75-27-4	Bromodichloromethane	71	U
74-95-3	Dibromomethane	71	U
108-10-1	4-Methyl-2-pentanone	360	U
106-93-4	Ethylene Dibromide	71	U
10061-01-5	cis-1,3-Dichloropropene	71	U
108-88-3	Toluene	71	U
10061-02-6	Trans-1,3-Dichloropropene	71	U
79-00-5	1,1,2-Trichloroethane	71	U
591-78-6	2-Hexanone	360	U
127-18-4	Tetrachloroethene	71	U
124-48-1	Chlorodibromomethane	71	U
108-90-7	Chlorobenzene	71	U
630-20-6	1,1,1,2-Tetrachloroethane	71	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-1 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020427.D
 Sample wt/vol: 8.2 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 14.23 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	71	U
1330-20-7	m & p-Xylene	140	U
95-47-6	o-Xylene	71	U
100-42-5	Styrene	71	U
75-25-2	Bromoform	71	U
98-82-8	Isopropylbenzene	71	U
79-34-5	1,1,2,2-Tetrachloroethane	71	U
108-86-1	Bromobenzene	71	U
96-18-4	1,2,3-Trichloropropane	71	U
95-49-8	2-Chlorotoluene	71	U
103-65-1	n-Propylbenzene	71	U
108-67-8	1,3,5-Trimethylbenzene	71	U
106-43-4	4-Chlorotoluene	71	U
98-06-6	tert-Butylbenzene	71	U
95-63-6	1,2,4-Trimethylbenzene	71	U
135-98-8	sec-Butylbenzene	71	U
99-87-6	p-Isopropyltoluene	71	U
75-87-3	Chloromethane	71	U
75-65-0	tert butyl alcohol	71	U
541-73-1	1,3-Dichlorobenzene	71	U
109-99-9	Tetrahydrofuran	71	U
106-46-7	1,4-Dichlorobenzene	71	U
60-29-7	Diethyl Ether	71	U
104-51-8	n-Butylbenzene	71	U
95-50-1	1,2-Dichlorobenzene	71	U
96-12-8	1,2-Dibromo-3-chloropropane	71	U
120-82-1	1,2,4-Trichlorobenzene	71	U
87-68-3	Hexachlorobutadiene	71	U
91-20-3	Naphthalene	71	U
87-61-6	1,2,3-Trichlorobenzene	71	U
994-05-8	Tert-amyl Methyl Ether	71	U
75-71-8	Dichlorodifluoromethane	71	U
142-28-9	1,3-Dichloropropane	71	U
75-69-4	Trichlorofluoromethane	71	U
637-92-3	Ethyl Tert-butyl ether	71	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-1 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020427.D
 Sample wt/vol: 8.2 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 14.23 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	71	U
123-91-1	1,4-Dioxane	36000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-1 (7')
 Matrix: (soil/water) SOIL Lab File ID: C020428.D
 Sample wt/vol: 12.6 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 8.59 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	44	U
74-83-9	Bromomethane	44	U
75-00-3	Chloroethane	44	U
67-64-1	Acetone	220	U
75-35-4	1,1-Dichloroethene	44	U
75-15-0	Carbon Disulfide	44	U
75-09-2	Methylene Chloride	220	U
1634-04-4	tert-Butyl methyl ether	44	U
156-60-5	trans-1,2 Dichloroethene	44	U
75-34-3	1,1-Dichloroethane	44	U
78-93-3	2-Butanone	220	U
594-20-7	2,2-Dichloropropane	44	U
156-59-2	cis-1,2-Dichloroethene	44	U
67-66-3	Chloroform	44	U
74-97-5	Bromochloromethane	44	U
71-55-6	1,1,1-Trichloroethane	44	U
563-58-6	1,1-Dichloropropene	44	U
56-23-5	Carbon Tetrachloride	44	U
71-43-2	Benzene	44	U
107-06-2	1,2-Dichloroethane	44	U
79-01-6	Trichloroethene	44	U
78-87-5	1,2-Dichloropropane	44	U
75-27-4	Bromodichloromethane	44	U
74-95-3	Dibromomethane	44	U
108-10-1	4-Methyl-2-pentanone	220	U
106-93-4	Ethylene Dibromide	44	U
10061-01-5	cis-1,3-Dichloropropene	44	U
108-88-3	Toluene	44	U
10061-02-6	Trans-1,3-Dichloropropene	44	U
79-00-5	1,1,2-Trichloroethane	44	U
591-78-6	2-Hexanone	220	U
127-18-4	Tetrachloroethene	44	U
124-48-1	Chlorodibromomethane	44	U
108-90-7	Chlorobenzene	44	U
630-20-6	1,1,1,2-Tetrachloroethane	44	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-1 (7')
 Matrix: (soil/water) SOIL Lab File ID: C020428.D
 Sample wt/vol: 12.6 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 8.59 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	44	U
1330-20-7	m & p-Xylene	87	U
95-47-6	o-Xylene	44	U
100-42-5	Styrene	44	U
75-25-2	Bromoform	44	U
98-82-8	Isopropylbenzene	44	U
79-34-5	1,1,2,2-Tetrachloroethane	44	U
108-86-1	Bromobenzene	44	U
96-18-4	1,2,3-Trichloropropane	44	U
95-49-8	2-Chlorotoluene	44	U
103-65-1	n-Propylbenzene	44	U
108-67-8	1,3,5-Trimethylbenzene	44	U
106-43-4	4-Chlorotoluene	44	U
98-06-6	tert-Butylbenzene	44	U
95-63-6	1,2,4-Trimethylbenzene	44	U
135-98-8	sec-Butylbenzene	44	U
99-87-6	p-Isopropyltoluene	44	U
75-87-3	Chloromethane	44	U
75-65-0	tert butyl alcohol	44	U
541-73-1	1,3-Dichlorobenzene	44	U
109-99-9	Tetrahydrofuran	44	U
106-46-7	1,4-Dichlorobenzene	44	U
60-29-7	Diethyl Ether	44	U
104-51-8	n-Butylbenzene	44	U
95-50-1	1,2-Dichlorobenzene	44	U
96-12-8	1,2-Dibromo-3-chloropropane	44	U
120-82-1	1,2,4-Trichlorobenzene	44	U
87-68-3	Hexachlorobutadiene	44	U
91-20-3	Naphthalene	44	U
87-61-6	1,2,3-Trichlorobenzene	44	U
994-05-8	Tert-amyl Methyl Ether	44	U
75-71-8	Dichlorodifluoromethane	44	U
142-28-9	1,3-Dichloropropane	44	U
75-69-4	Trichlorofluoromethane	44	U
637-92-3	Ethyl Tert-butyl ether	44	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-1 (7')
 Matrix: (soil/water) SOIL Lab File ID: C020428.D
 Sample wt/vol: 12.6 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 8.59 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	44	U
123-91-1	1,4-Dioxane	22000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-1
 Matrix: (soil/water) SOIL Lab File ID: C020429.D
 Sample wt/vol: 13.9 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 10.68 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	40	U
74-83-9	Bromomethane	40	U
75-00-3	Chloroethane	40	U
67-64-1	Acetone	200	U
75-35-4	1,1-Dichloroethene	40	U
75-15-0	Carbon Disulfide	40	U
75-09-2	Methylene Chloride	200	U
1634-04-4	tert-Butyl methyl ether	40	U
156-60-5	trans-1,2 Dichloroethene	40	U
75-34-3	1,1-Dichloroethane	40	U
78-93-3	2-Butanone	200	U
594-20-7	2,2-Dichloropropane	40	U
156-59-2	cis-1,2-Dichloroethene	40	U
67-66-3	Chloroform	40	U
74-97-5	Bromochloromethane	40	U
71-55-6	1,1,1-Trichloroethane	40	U
563-58-6	1,1-Dichloropropene	40	U
56-23-5	Carbon Tetrachloride	40	U
71-43-2	Benzene	40	U
107-06-2	1,2-Dichloroethane	40	U
79-01-6	Trichloroethene	40	U
78-87-5	1,2-Dichloropropane	40	U
75-27-4	Bromodichloromethane	40	U
74-95-3	Dibromomethane	40	U
108-10-1	4-Methyl-2-pentanone	200	U
106-93-4	Ethylene Dibromide	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
108-88-3	Toluene	40	U
10061-02-6	Trans-1,3-Dichloropropene	40	U
79-00-5	1,1,2-Trichloroethane	40	U
591-78-6	2-Hexanone	200	U
127-18-4	Tetrachloroethene	40	U
124-48-1	Chlorodibromomethane	40	U
108-90-7	Chlorobenzene	40	U
630-20-6	1,1,1,2-Tetrachloroethane	40	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-1
 Matrix: (soil/water) SOIL Lab File ID: C020429.D
 Sample wt/vol: 13.9 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 10.68 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	40	U
1330-20-7	m & p-Xylene	81	U
95-47-6	o-Xylene	40	U
100-42-5	Styrene	40	U
75-25-2	Bromoform	40	U
98-82-8	Isopropylbenzene	40	U
79-34-5	1,1,2,2-Tetrachloroethane	40	U
108-86-1	Bromobenzene	40	U
96-18-4	1,2,3-Trichloropropane	40	U
95-49-8	2-Chlorotoluene	40	U
103-65-1	n-Propylbenzene	40	U
108-67-8	1,3,5-Trimethylbenzene	40	U
106-43-4	4-Chlorotoluene	40	U
98-06-6	tert-Butylbenzene	40	U
95-63-6	1,2,4-Trimethylbenzene	40	U
135-98-8	sec-Butylbenzene	40	U
99-87-6	p-Isopropyltoluene	40	U
75-87-3	Chloromethane	40	U
75-65-0	tert butyl alcohol	40	U
541-73-1	1,3-Dichlorobenzene	40	U
109-99-9	Tetrahydrofuran	40	U
106-46-7	1,4-Dichlorobenzene	40	U
60-29-7	Diethyl Ether	40	U
104-51-8	n-Butylbenzene	40	U
95-50-1	1,2-Dichlorobenzene	40	U
96-12-8	1,2-Dibromo-3-chloropropane	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
87-68-3	Hexachlorobutadiene	40	U
91-20-3	Naphthalene	40	U
87-61-6	1,2,3-Trichlorobenzene	40	U
994-05-8	Tert-amyl Methyl Ether	40	U
75-71-8	Dichlorodifluoromethane	40	U
142-28-9	1,3-Dichloropropane	40	U
75-69-4	Trichlorofluoromethane	40	U
637-92-3	Ethyl Tert-butyl ether	40	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-1
 Matrix: (soil/water) SOIL Lab File ID: C020429.D
 Sample wt/vol: 13.9 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 10.68 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	40	U
123-91-1	1,4-Dioxane	20000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-2
 Matrix: (soil/water) SOIL Lab File ID: C020430.D
 Sample wt/vol: 9.7 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.71 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	56	U
74-83-9	Bromomethane	56	U
75-00-3	Chloroethane	56	U
67-64-1	Acetone	280	U
75-35-4	1,1-Dichloroethene	56	U
75-15-0	Carbon Disulfide	56	U
75-09-2	Methylene Chloride	280	U
1634-04-4	tert-Butyl methyl ether	56	U
156-60-5	trans-1,2 Dichloroethene	56	U
75-34-3	1,1-Dichloroethane	56	U
78-93-3	2-Butanone	280	U
594-20-7	2,2-Dichloropropane	56	U
156-59-2	cis-1,2-Dichloroethene	56	U
67-66-3	Chloroform	56	U
74-97-5	Bromochloromethane	56	U
71-55-6	1,1,1-Trichloroethane	56	U
563-58-6	1,1-Dichloropropene	56	U
56-23-5	Carbon Tetrachloride	56	U
71-43-2	Benzene	56	U
107-06-2	1,2-Dichloroethane	56	U
79-01-6	Trichloroethene	56	U
78-87-5	1,2-Dichloropropane	56	U
75-27-4	Bromodichloromethane	56	U
74-95-3	Dibromomethane	56	U
108-10-1	4-Methyl-2-pentanone	280	U
106-93-4	Ethylene Dibromide	56	U
10061-01-5	cis-1,3-Dichloropropene	56	U
108-88-3	Toluene	56	U
10061-02-6	Trans-1,3-Dichloropropene	56	U
79-00-5	1,1,2-Trichloroethane	56	U
591-78-6	2-Hexanone	280	U
127-18-4	Tetrachloroethene	56	U
124-48-1	Chlorodibromomethane	56	U
108-90-7	Chlorobenzene	56	U
630-20-6	1,1,1,2-Tetrachloroethane	56	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-2
 Matrix: (soil/water) SOIL Lab File ID: C020430.D
 Sample wt/vol: 9.7 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.71 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	56	U
1330-20-7	m & p-Xylene	110	U
95-47-6	o-Xylene	56	U
100-42-5	Styrene	56	U
75-25-2	Bromoform	56	U
98-82-8	Isopropylbenzene	56	U
79-34-5	1,1,2,2-Tetrachloroethane	56	U
108-86-1	Bromobenzene	56	U
96-18-4	1,2,3-Trichloropropane	56	U
95-49-8	2-Chlorotoluene	56	U
103-65-1	n-Propylbenzene	56	U
108-67-8	1,3,5-Trimethylbenzene	56	U
106-43-4	4-Chlorotoluene	56	U
98-06-6	tert-Butylbenzene	56	U
95-63-6	1,2,4-Trimethylbenzene	56	U
135-98-8	sec-Butylbenzene	56	U
99-87-6	p-Isopropyltoluene	56	U
75-87-3	Chloromethane	56	U
75-65-0	tert butyl alcohol	56	U
541-73-1	1,3-Dichlorobenzene	56	U
109-99-9	Tetrahydrofuran	56	U
106-46-7	1,4-Dichlorobenzene	56	U
60-29-7	Diethyl Ether	56	U
104-51-8	n-Butylbenzene	56	U
95-50-1	1,2-Dichlorobenzene	56	U
96-12-8	1,2-Dibromo-3-chloropropane	56	U
120-82-1	1,2,4-Trichlorobenzene	56	U
87-68-3	Hexachlorobutadiene	56	U
91-20-3	Naphthalene	56	U
87-61-6	1,2,3-Trichlorobenzene	56	U
994-05-8	Tert-amyl Methyl Ether	56	U
75-71-8	Dichlorodifluoromethane	56	U
142-28-9	1,3-Dichloropropane	56	U
75-69-4	Trichlorofluoromethane	56	U
637-92-3	Ethyl Tert-butyl ether	56	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-2
 Matrix: (soil/water) SOIL Lab File ID: C020430.D
 Sample wt/vol: 9.7 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.71 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	56	U
123-91-1	1,4-Dioxane	28000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-3
 Matrix: (soil/water) SOIL Lab File ID: C020431.D
 Sample wt/vol: 10.3 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 9.95 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	54	U
74-83-9	Bromomethane	54	U
75-00-3	Chloroethane	54	U
67-64-1	Acetone	270	U
75-35-4	1,1-Dichloroethene	54	U
75-15-0	Carbon Disulfide	54	U
75-09-2	Methylene Chloride	270	U
1634-04-4	tert-Butyl methyl ether	54	U
156-60-5	trans-1,2 Dichloroethene	54	U
75-34-3	1,1-Dichloroethane	54	U
78-93-3	2-Butanone	270	U
594-20-7	2,2-Dichloropropane	54	U
156-59-2	cis-1,2-Dichloroethene	54	U
67-66-3	Chloroform	54	U
74-97-5	Bromochloromethane	54	U
71-55-6	1,1,1-Trichloroethane	54	U
563-58-6	1,1-Dichloropropene	54	U
56-23-5	Carbon Tetrachloride	54	U
71-43-2	Benzene	54	U
107-06-2	1,2-Dichloroethane	54	U
79-01-6	Trichloroethene	54	U
78-87-5	1,2-Dichloropropane	54	U
75-27-4	Bromodichloromethane	54	U
74-95-3	Dibromomethane	54	U
108-10-1	4-Methyl-2-pentanone	270	U
106-93-4	Ethylene Dibromide	54	U
10061-01-5	cis-1,3-Dichloropropene	54	U
108-88-3	Toluene	54	U
10061-02-6	Trans-1,3-Dichloropropene	54	U
79-00-5	1,1,2-Trichloroethane	54	U
591-78-6	2-Hexanone	270	U
127-18-4	Tetrachloroethene	54	U
124-48-1	Chlorodibromomethane	54	U
108-90-7	Chlorobenzene	54	U
630-20-6	1,1,1,2-Tetrachloroethane	54	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-3
 Matrix: (soil/water) SOIL Lab File ID: C020431.D
 Sample wt/vol: 10.3 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 9.95 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	54	U
1330-20-7	m & p-Xylene	110	U
95-47-6	o-Xylene	54	U
100-42-5	Styrene	54	U
75-25-2	Bromoform	54	U
98-82-8	Isopropylbenzene	54	U
79-34-5	1,1,2,2-Tetrachloroethane	54	U
108-86-1	Bromobenzene	54	U
96-18-4	1,2,3-Trichloropropane	54	U
95-49-8	2-Chlorotoluene	54	U
103-65-1	n-Propylbenzene	54	U
108-67-8	1,3,5-Trimethylbenzene	54	U
106-43-4	4-Chlorotoluene	54	U
98-06-6	tert-Butylbenzene	54	U
95-63-6	1,2,4-Trimethylbenzene	54	U
135-98-8	sec-Butylbenzene	54	U
99-87-6	p-Isopropyltoluene	54	U
75-87-3	Chloromethane	54	U
75-65-0	tert butyl alcohol	54	U
541-73-1	1,3-Dichlorobenzene	54	U
109-99-9	Tetrahydrofuran	54	U
106-46-7	1,4-Dichlorobenzene	54	U
60-29-7	Diethyl Ether	54	U
104-51-8	n-Butylbenzene	54	U
95-50-1	1,2-Dichlorobenzene	54	U
96-12-8	1,2-Dibromo-3-chloropropane	54	U
120-82-1	1,2,4-Trichlorobenzene	54	U
87-68-3	Hexachlorobutadiene	54	U
91-20-3	Naphthalene	54	U
87-61-6	1,2,3-Trichlorobenzene	54	U
994-05-8	Tert-amyl Methyl Ether	54	U
75-71-8	Dichlorodifluoromethane	54	U
142-28-9	1,3-Dichloropropane	54	U
75-69-4	Trichlorofluoromethane	54	U
637-92-3	Ethyl Tert-butyl ether	54	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-3
 Matrix: (soil/water) SOIL Lab File ID: C020431.D
 Sample wt/vol: 10.3 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 9.95 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	54	U
123-91-1	1,4-Dioxane	27000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-4
 Matrix: (soil/water) SOIL Lab File ID: C020432.D
 Sample wt/vol: 10.6 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 8.81 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	52	U
74-83-9	Bromomethane	52	U
75-00-3	Chloroethane	52	U
67-64-1	Acetone	260	U
75-35-4	1,1-Dichloroethene	52	U
75-15-0	Carbon Disulfide	52	U
75-09-2	Methylene Chloride	260	U
1634-04-4	tert-Butyl methyl ether	52	U
156-60-5	trans-1,2 Dichloroethene	52	U
75-34-3	1,1-Dichloroethane	52	U
78-93-3	2-Butanone	260	U
594-20-7	2,2-Dichloropropane	52	U
156-59-2	cis-1,2-Dichloroethene	52	U
67-66-3	Chloroform	52	U
74-97-5	Bromochloromethane	52	U
71-55-6	1,1,1-Trichloroethane	52	U
563-58-6	1,1-Dichloropropene	52	U
56-23-5	Carbon Tetrachloride	52	U
71-43-2	Benzene	52	U
107-06-2	1,2-Dichloroethane	52	U
79-01-6	Trichloroethene	52	U
78-87-5	1,2-Dichloropropane	52	U
75-27-4	Bromodichloromethane	52	U
74-95-3	Dibromomethane	52	U
108-10-1	4-Methyl-2-pentanone	260	U
106-93-4	Ethylene Dibromide	52	U
10061-01-5	cis-1,3-Dichloropropene	52	U
108-88-3	Toluene	52	U
10061-02-6	Trans-1,3-Dichloropropene	52	U
79-00-5	1,1,2-Trichloroethane	52	U
591-78-6	2-Hexanone	260	U
127-18-4	Tetrachloroethene	52	U
124-48-1	Chlorodibromomethane	52	U
108-90-7	Chlorobenzene	52	U
630-20-6	1,1,1,2-Tetrachloroethane	52	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-4
 Matrix: (soil/water) SOIL Lab File ID: C020432.D
 Sample wt/vol: 10.6 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 8.81 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	52	U
1330-20-7	m & p-Xylene	100	U
95-47-6	o-Xylene	52	U
100-42-5	Styrene	52	U
75-25-2	Bromoform	52	U
98-82-8	Isopropylbenzene	52	U
79-34-5	1,1,2,2-Tetrachloroethane	52	U
108-86-1	Bromobenzene	52	U
96-18-4	1,2,3-Trichloropropane	52	U
95-49-8	2-Chlorotoluene	52	U
103-65-1	n-Propylbenzene	52	U
108-67-8	1,3,5-Trimethylbenzene	52	U
106-43-4	4-Chlorotoluene	52	U
98-06-6	tert-Butylbenzene	52	U
95-63-6	1,2,4-Trimethylbenzene	52	U
135-98-8	sec-Butylbenzene	52	U
99-87-6	p-Isopropyltoluene	52	U
75-87-3	Chloromethane	52	U
75-65-0	tert butyl alcohol	52	U
541-73-1	1,3-Dichlorobenzene	52	U
109-99-9	Tetrahydrofuran	52	U
106-46-7	1,4-Dichlorobenzene	52	U
60-29-7	Diethyl Ether	52	U
104-51-8	n-Butylbenzene	52	U
95-50-1	1,2-Dichlorobenzene	52	U
96-12-8	1,2-Dibromo-3-chloropropane	52	U
120-82-1	1,2,4-Trichlorobenzene	52	U
87-68-3	Hexachlorobutadiene	52	U
91-20-3	Naphthalene	52	U
87-61-6	1,2,3-Trichlorobenzene	52	U
994-05-8	Tert-amyl Methyl Ether	52	U
75-71-8	Dichlorodifluoromethane	52	U
142-28-9	1,3-Dichloropropane	52	U
75-69-4	Trichlorofluoromethane	52	U
637-92-3	Ethyl Tert-butyl ether	52	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-4
 Matrix: (soil/water) SOIL Lab File ID: C020432.D
 Sample wt/vol: 10.6 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 8.81 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	52	U
123-91-1	1,4-Dioxane	26000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-5
 Matrix: (soil/water) SOIL Lab File ID: C020433.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 6.52 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	54	U
74-83-9	Bromomethane	54	U
75-00-3	Chloroethane	54	U
67-64-1	Acetone	270	U
75-35-4	1,1-Dichloroethene	54	U
75-15-0	Carbon Disulfide	54	U
75-09-2	Methylene Chloride	270	U
1634-04-4	tert-Butyl methyl ether	54	U
156-60-5	trans-1,2 Dichloroethene	54	U
75-34-3	1,1-Dichloroethane	54	U
78-93-3	2-Butanone	270	U
594-20-7	2,2-Dichloropropane	54	U
156-59-2	cis-1,2-Dichloroethene	54	U
67-66-3	Chloroform	54	U
74-97-5	Bromochloromethane	54	U
71-55-6	1,1,1-Trichloroethane	54	U
563-58-6	1,1-Dichloropropene	54	U
56-23-5	Carbon Tetrachloride	54	U
71-43-2	Benzene	54	U
107-06-2	1,2-Dichloroethane	54	U
79-01-6	Trichloroethene	54	U
78-87-5	1,2-Dichloropropane	54	U
75-27-4	Bromodichloromethane	54	U
74-95-3	Dibromomethane	54	U
108-10-1	4-Methyl-2-pentanone	270	U
106-93-4	Ethylene Dibromide	54	U
10061-01-5	cis-1,3-Dichloropropene	54	U
108-88-3	Toluene	54	U
10061-02-6	Trans-1,3-Dichloropropene	54	U
79-00-5	1,1,2-Trichloroethane	54	U
591-78-6	2-Hexanone	270	U
127-18-4	Tetrachloroethene	54	U
124-48-1	Chlorodibromomethane	54	U
108-90-7	Chlorobenzene	54	U
630-20-6	1,1,1,2-Tetrachloroethane	54	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-5
 Matrix: (soil/water) SOIL Lab File ID: C020433.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 6.52 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	54	U
1330-20-7	m & p-Xylene	110	U
95-47-6	o-Xylene	54	U
100-42-5	Styrene	54	U
75-25-2	Bromoform	54	U
98-82-8	Isopropylbenzene	54	U
79-34-5	1,1,2,2-Tetrachloroethane	54	U
108-86-1	Bromobenzene	54	U
96-18-4	1,2,3-Trichloropropane	54	U
95-49-8	2-Chlorotoluene	54	U
103-65-1	n-Propylbenzene	54	U
108-67-8	1,3,5-Trimethylbenzene	54	U
106-43-4	4-Chlorotoluene	54	U
98-06-6	tert-Butylbenzene	54	U
95-63-6	1,2,4-Trimethylbenzene	54	U
135-98-8	sec-Butylbenzene	54	U
99-87-6	p-Isopropyltoluene	54	U
75-87-3	Chloromethane	54	U
75-65-0	tert butyl alcohol	54	U
541-73-1	1,3-Dichlorobenzene	54	U
109-99-9	Tetrahydrofuran	54	U
106-46-7	1,4-Dichlorobenzene	54	U
60-29-7	Diethyl Ether	54	U
104-51-8	n-Butylbenzene	54	U
95-50-1	1,2-Dichlorobenzene	54	U
96-12-8	1,2-Dibromo-3-chloropropane	54	U
120-82-1	1,2,4-Trichlorobenzene	54	U
87-68-3	Hexachlorobutadiene	54	U
91-20-3	Naphthalene	54	U
87-61-6	1,2,3-Trichlorobenzene	54	U
994-05-8	Tert-amyl Methyl Ether	54	U
75-71-8	Dichlorodifluoromethane	54	U
142-28-9	1,3-Dichloropropane	54	U
75-69-4	Trichlorofluoromethane	54	U
637-92-3	Ethyl Tert-butyl ether	54	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: SC-5
 Matrix: (soil/water) SOIL Lab File ID: C020433.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 6.52 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	54	U
123-91-1	1,4-Dioxane	27000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-6
 Matrix: (soil/water) SOIL Lab File ID: C020434.D
 Sample wt/vol: 11.3 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.14 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	48	U
74-83-9	Bromomethane	48	U
75-00-3	Chloroethane	48	U
67-64-1	Acetone	240	U
75-35-4	1,1-Dichloroethene	48	U
75-15-0	Carbon Disulfide	48	U
75-09-2	Methylene Chloride	240	U
1634-04-4	tert-Butyl methyl ether	48	U
156-60-5	trans-1,2 Dichloroethene	48	U
75-34-3	1,1-Dichloroethane	48	U
78-93-3	2-Butanone	240	U
594-20-7	2,2-Dichloropropane	48	U
156-59-2	cis-1,2-Dichloroethene	48	U
67-66-3	Chloroform	48	U
74-97-5	Bromochloromethane	48	U
71-55-6	1,1,1-Trichloroethane	48	U
563-58-6	1,1-Dichloropropene	48	U
56-23-5	Carbon Tetrachloride	48	U
71-43-2	Benzene	48	U
107-06-2	1,2-Dichloroethane	48	U
79-01-6	Trichloroethene	48	U
78-87-5	1,2-Dichloropropane	48	U
75-27-4	Bromodichloromethane	48	U
74-95-3	Dibromomethane	48	U
108-10-1	4-Methyl-2-pentanone	240	U
106-93-4	Ethylene Dibromide	48	U
10061-01-5	cis-1,3-Dichloropropene	48	U
108-88-3	Toluene	48	U
10061-02-6	Trans-1,3-Dichloropropene	48	U
79-00-5	1,1,2-Trichloroethane	48	U
591-78-6	2-Hexanone	240	U
127-18-4	Tetrachloroethene	48	U
124-48-1	Chlorodibromomethane	48	U
108-90-7	Chlorobenzene	48	U
630-20-6	1,1,1,2-Tetrachloroethane	48	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-6
 Matrix: (soil/water) SOIL Lab File ID: C020434.D
 Sample wt/vol: 11.3 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.14 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	48	U
1330-20-7	m & p-Xylene	96	U
95-47-6	o-Xylene	48	U
100-42-5	Styrene	48	U
75-25-2	Bromoform	48	U
98-82-8	Isopropylbenzene	48	U
79-34-5	1,1,2,2-Tetrachloroethane	48	U
108-86-1	Bromobenzene	48	U
96-18-4	1,2,3-Trichloropropane	48	U
95-49-8	2-Chlorotoluene	48	U
103-65-1	n-Propylbenzene	48	U
108-67-8	1,3,5-Trimethylbenzene	48	U
106-43-4	4-Chlorotoluene	48	U
98-06-6	tert-Butylbenzene	48	U
95-63-6	1,2,4-Trimethylbenzene	48	U
135-98-8	sec-Butylbenzene	48	U
99-87-6	p-Isopropyltoluene	48	U
75-87-3	Chloromethane	48	U
75-65-0	tert butyl alcohol	48	U
541-73-1	1,3-Dichlorobenzene	48	U
109-99-9	Tetrahydrofuran	48	U
106-46-7	1,4-Dichlorobenzene	48	U
60-29-7	Diethyl Ether	48	U
104-51-8	n-Butylbenzene	48	U
95-50-1	1,2-Dichlorobenzene	48	U
96-12-8	1,2-Dibromo-3-chloropropane	48	U
120-82-1	1,2,4-Trichlorobenzene	48	U
87-68-3	Hexachlorobutadiene	48	U
91-20-3	Naphthalene	48	U
87-61-6	1,2,3-Trichlorobenzene	48	U
994-05-8	Tert-amyl Methyl Ether	48	U
75-71-8	Dichlorodifluoromethane	48	U
142-28-9	1,3-Dichloropropane	48	U
75-69-4	Trichlorofluoromethane	48	U
637-92-3	Ethyl Tert-butyl ether	48	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-6
 Matrix: (soil/water) SOIL Lab File ID: C020434.D
 Sample wt/vol: 11.3 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.14 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	48	U
123-91-1	1,4-Dioxane	24000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-7
 Matrix: (soil/water) SOIL Lab File ID: C020435.D
 Sample wt/vol: 10.1 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.81 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	54	U
74-83-9	Bromomethane	54	U
75-00-3	Chloroethane	54	U
67-64-1	Acetone	270	U
75-35-4	1,1-Dichloroethene	54	U
75-15-0	Carbon Disulfide	54	U
75-09-2	Methylene Chloride	270	U
1634-04-4	tert-Butyl methyl ether	54	U
156-60-5	trans-1,2 Dichloroethene	54	U
75-34-3	1,1-Dichloroethane	54	U
78-93-3	2-Butanone	270	U
594-20-7	2,2-Dichloropropane	54	U
156-59-2	cis-1,2-Dichloroethene	54	U
67-66-3	Chloroform	54	U
74-97-5	Bromochloromethane	54	U
71-55-6	1,1,1-Trichloroethane	54	U
563-58-6	1,1-Dichloropropene	54	U
56-23-5	Carbon Tetrachloride	54	U
71-43-2	Benzene	54	U
107-06-2	1,2-Dichloroethane	54	U
79-01-6	Trichloroethene	54	U
78-87-5	1,2-Dichloropropane	54	U
75-27-4	Bromodichloromethane	54	U
74-95-3	Dibromomethane	54	U
108-10-1	4-Methyl-2-pentanone	270	U
106-93-4	Ethylene Dibromide	54	U
10061-01-5	cis-1,3-Dichloropropene	54	U
108-88-3	Toluene	54	U
10061-02-6	Trans-1,3-Dichloropropene	54	U
79-00-5	1,1,2-Trichloroethane	54	U
591-78-6	2-Hexanone	270	U
127-18-4	Tetrachloroethene	54	U
124-48-1	Chlorodibromomethane	54	U
108-90-7	Chlorobenzene	54	U
630-20-6	1,1,1,2-Tetrachloroethane	54	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-7
 Matrix: (soil/water) SOIL Lab File ID: C020435.D
 Sample wt/vol: 10.1 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.81 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	54	U
1330-20-7	m & p-Xylene	110	U
95-47-6	o-Xylene	54	U
100-42-5	Styrene	54	U
75-25-2	Bromoform	54	U
98-82-8	Isopropylbenzene	54	U
79-34-5	1,1,2,2-Tetrachloroethane	54	U
108-86-1	Bromobenzene	54	U
96-18-4	1,2,3-Trichloropropane	54	U
95-49-8	2-Chlorotoluene	54	U
103-65-1	n-Propylbenzene	54	U
108-67-8	1,3,5-Trimethylbenzene	54	U
106-43-4	4-Chlorotoluene	54	U
98-06-6	tert-Butylbenzene	54	U
95-63-6	1,2,4-Trimethylbenzene	54	U
135-98-8	sec-Butylbenzene	54	U
99-87-6	p-Isopropyltoluene	54	U
75-87-3	Chloromethane	54	U
75-65-0	tert butyl alcohol	54	U
541-73-1	1,3-Dichlorobenzene	54	U
109-99-9	Tetrahydrofuran	54	U
106-46-7	1,4-Dichlorobenzene	54	U
60-29-7	Diethyl Ether	54	U
104-51-8	n-Butylbenzene	54	U
95-50-1	1,2-Dichlorobenzene	54	U
96-12-8	1,2-Dibromo-3-chloropropane	54	U
120-82-1	1,2,4-Trichlorobenzene	54	U
87-68-3	Hexachlorobutadiene	54	U
91-20-3	Naphthalene	54	U
87-61-6	1,2,3-Trichlorobenzene	54	U
994-05-8	Tert-amyl Methyl Ether	54	U
75-71-8	Dichlorodifluoromethane	54	U
142-28-9	1,3-Dichloropropane	54	U
75-69-4	Trichlorofluoromethane	54	U
637-92-3	Ethyl Tert-butyl ether	54	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-7
 Matrix: (soil/water) SOIL Lab File ID: C020435.D
 Sample wt/vol: 10.1 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.81 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	54	U
123-91-1	1,4-Dioxane	27000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-8
 Matrix: (soil/water) SOIL Lab File ID: C020436.D
 Sample wt/vol: 11.1 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 3.95 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	47	U
74-83-9	Bromomethane	47	U
75-00-3	Chloroethane	47	U
67-64-1	Acetone	230	U
75-35-4	1,1-Dichloroethene	47	U
75-15-0	Carbon Disulfide	47	U
75-09-2	Methylene Chloride	230	U
1634-04-4	tert-Butyl methyl ether	47	U
156-60-5	trans-1,2 Dichloroethene	47	U
75-34-3	1,1-Dichloroethane	47	U
78-93-3	2-Butanone	230	U
594-20-7	2,2-Dichloropropane	47	U
156-59-2	cis-1,2-Dichloroethene	47	U
67-66-3	Chloroform	47	U
74-97-5	Bromochloromethane	47	U
71-55-6	1,1,1-Trichloroethane	47	U
563-58-6	1,1-Dichloropropene	47	U
56-23-5	Carbon Tetrachloride	47	U
71-43-2	Benzene	47	U
107-06-2	1,2-Dichloroethane	47	U
79-01-6	Trichloroethene	47	U
78-87-5	1,2-Dichloropropane	47	U
75-27-4	Bromodichloromethane	47	U
74-95-3	Dibromomethane	47	U
108-10-1	4-Methyl-2-pentanone	230	U
106-93-4	Ethylene Dibromide	47	U
10061-01-5	cis-1,3-Dichloropropene	47	U
108-88-3	Toluene	47	U
10061-02-6	Trans-1,3-Dichloropropene	47	U
79-00-5	1,1,2-Trichloroethane	47	U
591-78-6	2-Hexanone	230	U
127-18-4	Tetrachloroethene	47	U
124-48-1	Chlorodibromomethane	47	U
108-90-7	Chlorobenzene	47	U
630-20-6	1,1,1,2-Tetrachloroethane	47	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-8
 Matrix: (soil/water) SOIL Lab File ID: C020436.D
 Sample wt/vol: 11.1 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 3.95 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	47	U
1330-20-7	m & p-Xylene	94	U
95-47-6	o-Xylene	47	U
100-42-5	Styrene	47	U
75-25-2	Bromoform	47	U
98-82-8	Isopropylbenzene	47	U
79-34-5	1,1,2,2-Tetrachloroethane	47	U
108-86-1	Bromobenzene	47	U
96-18-4	1,2,3-Trichloropropane	47	U
95-49-8	2-Chlorotoluene	47	U
103-65-1	n-Propylbenzene	47	U
108-67-8	1,3,5-Trimethylbenzene	47	U
106-43-4	4-Chlorotoluene	47	U
98-06-6	tert-Butylbenzene	47	U
95-63-6	1,2,4-Trimethylbenzene	47	U
135-98-8	sec-Butylbenzene	47	U
99-87-6	p-Isopropyltoluene	47	U
75-87-3	Chloromethane	47	U
75-65-0	tert butyl alcohol	47	U
541-73-1	1,3-Dichlorobenzene	47	U
109-99-9	Tetrahydrofuran	47	U
106-46-7	1,4-Dichlorobenzene	47	U
60-29-7	Diethyl Ether	47	U
104-51-8	n-Butylbenzene	47	U
95-50-1	1,2-Dichlorobenzene	47	U
96-12-8	1,2-Dibromo-3-chloropropane	47	U
120-82-1	1,2,4-Trichlorobenzene	47	U
87-68-3	Hexachlorobutadiene	47	U
91-20-3	Naphthalene	47	U
87-61-6	1,2,3-Trichlorobenzene	47	U
994-05-8	Tert-amyl Methyl Ether	47	U
75-71-8	Dichlorodifluoromethane	47	U
142-28-9	1,3-Dichloropropane	47	U
75-69-4	Trichlorofluoromethane	47	U
637-92-3	Ethyl Tert-butyl ether	47	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-8
 Matrix: (soil/water) SOIL Lab File ID: C020436.D
 Sample wt/vol: 11.1 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 3.95 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	47	U
123-91-1	1,4-Dioxane	23000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-2 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020437.D
 Sample wt/vol: 11.6 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 5.31 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	45	U
74-83-9	Bromomethane	45	U
75-00-3	Chloroethane	45	U
67-64-1	Acetone	230	U
75-35-4	1,1-Dichloroethene	45	U
75-15-0	Carbon Disulfide	45	U
75-09-2	Methylene Chloride	230	U
1634-04-4	tert-Butyl methyl ether	45	U
156-60-5	trans-1,2 Dichloroethene	45	U
75-34-3	1,1-Dichloroethane	45	U
78-93-3	2-Butanone	230	U
594-20-7	2,2-Dichloropropane	45	U
156-59-2	cis-1,2-Dichloroethene	45	U
67-66-3	Chloroform	45	U
74-97-5	Bromochloromethane	45	U
71-55-6	1,1,1-Trichloroethane	45	U
563-58-6	1,1-Dichloropropene	45	U
56-23-5	Carbon Tetrachloride	45	U
71-43-2	Benzene	45	U
107-06-2	1,2-Dichloroethane	45	U
79-01-6	Trichloroethene	45	U
78-87-5	1,2-Dichloropropane	45	U
75-27-4	Bromodichloromethane	45	U
74-95-3	Dibromomethane	45	U
108-10-1	4-Methyl-2-pentanone	230	U
106-93-4	Ethylene Dibromide	45	U
10061-01-5	cis-1,3-Dichloropropene	45	U
108-88-3	Toluene	45	U
10061-02-6	Trans-1,3-Dichloropropene	45	U
79-00-5	1,1,2-Trichloroethane	45	U
591-78-6	2-Hexanone	230	U
127-18-4	Tetrachloroethene	45	U
124-48-1	Chlorodibromomethane	45	U
108-90-7	Chlorobenzene	45	U
630-20-6	1,1,1,2-Tetrachloroethane	45	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-2 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020437.D
 Sample wt/vol: 11.6 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 5.31 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	45	U
1330-20-7	m & p-Xylene	91	U
95-47-6	o-Xylene	45	U
100-42-5	Styrene	45	U
75-25-2	Bromoform	45	U
98-82-8	Isopropylbenzene	45	U
79-34-5	1,1,2,2-Tetrachloroethane	45	U
108-86-1	Bromobenzene	45	U
96-18-4	1,2,3-Trichloropropane	45	U
95-49-8	2-Chlorotoluene	45	U
103-65-1	n-Propylbenzene	45	U
108-67-8	1,3,5-Trimethylbenzene	45	U
106-43-4	4-Chlorotoluene	45	U
98-06-6	tert-Butylbenzene	45	U
95-63-6	1,2,4-Trimethylbenzene	45	U
135-98-8	sec-Butylbenzene	45	U
99-87-6	p-Isopropyltoluene	45	U
75-87-3	Chloromethane	45	U
75-65-0	tert butyl alcohol	45	U
541-73-1	1,3-Dichlorobenzene	45	U
109-99-9	Tetrahydrofuran	45	U
106-46-7	1,4-Dichlorobenzene	45	U
60-29-7	Diethyl Ether	45	U
104-51-8	n-Butylbenzene	45	U
95-50-1	1,2-Dichlorobenzene	45	U
96-12-8	1,2-Dibromo-3-chloropropane	45	U
120-82-1	1,2,4-Trichlorobenzene	45	U
87-68-3	Hexachlorobutadiene	45	U
91-20-3	Naphthalene	45	U
87-61-6	1,2,3-Trichlorobenzene	45	U
994-05-8	Tert-amyl Methyl Ether	45	U
75-71-8	Dichlorodifluoromethane	45	U
142-28-9	1,3-Dichloropropane	45	U
75-69-4	Trichlorofluoromethane	45	U
637-92-3	Ethyl Tert-butyl ether	45	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-2 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020437.D
 Sample wt/vol: 11.6 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 5.31 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	45	U
123-91-1	1,4-Dioxane	23000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-2 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020438.D
 Sample wt/vol: 10.3 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.96 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	53	U
74-83-9	Bromomethane	53	U
75-00-3	Chloroethane	53	U
67-64-1	Acetone	260	U
75-35-4	1,1-Dichloroethene	53	U
75-15-0	Carbon Disulfide	53	U
75-09-2	Methylene Chloride	260	U
1634-04-4	tert-Butyl methyl ether	53	U
156-60-5	trans-1,2 Dichloroethene	53	U
75-34-3	1,1-Dichloroethane	53	U
78-93-3	2-Butanone	260	U
594-20-7	2,2-Dichloropropane	53	U
156-59-2	cis-1,2-Dichloroethene	53	U
67-66-3	Chloroform	53	U
74-97-5	Bromochloromethane	53	U
71-55-6	1,1,1-Trichloroethane	53	U
563-58-6	1,1-Dichloropropene	53	U
56-23-5	Carbon Tetrachloride	53	U
71-43-2	Benzene	53	U
107-06-2	1,2-Dichloroethane	53	U
79-01-6	Trichloroethene	53	U
78-87-5	1,2-Dichloropropane	53	U
75-27-4	Bromodichloromethane	53	U
74-95-3	Dibromomethane	53	U
108-10-1	4-Methyl-2-pentanone	260	U
106-93-4	Ethylene Dibromide	53	U
10061-01-5	cis-1,3-Dichloropropene	53	U
108-88-3	Toluene	53	U
10061-02-6	Trans-1,3-Dichloropropene	53	U
79-00-5	1,1,2-Trichloroethane	53	U
591-78-6	2-Hexanone	260	U
127-18-4	Tetrachloroethene	53	U
124-48-1	Chlorodibromomethane	53	U
108-90-7	Chlorobenzene	53	U
630-20-6	1,1,1,2-Tetrachloroethane	53	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-2 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020438.D
 Sample wt/vol: 10.3 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.96 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	53	U
1330-20-7	m & p-Xylene	110	U
95-47-6	o-Xylene	53	U
100-42-5	Styrene	53	U
75-25-2	Bromoform	53	U
98-82-8	Isopropylbenzene	53	U
79-34-5	1,1,2,2-Tetrachloroethane	53	U
108-86-1	Bromobenzene	53	U
96-18-4	1,2,3-Trichloropropane	53	U
95-49-8	2-Chlorotoluene	53	U
103-65-1	n-Propylbenzene	53	U
108-67-8	1,3,5-Trimethylbenzene	53	U
106-43-4	4-Chlorotoluene	53	U
98-06-6	tert-Butylbenzene	53	U
95-63-6	1,2,4-Trimethylbenzene	53	U
135-98-8	sec-Butylbenzene	53	U
99-87-6	p-Isopropyltoluene	53	U
75-87-3	Chloromethane	53	U
75-65-0	tert butyl alcohol	53	U
541-73-1	1,3-Dichlorobenzene	53	U
109-99-9	Tetrahydrofuran	53	U
106-46-7	1,4-Dichlorobenzene	53	U
60-29-7	Diethyl Ether	53	U
104-51-8	n-Butylbenzene	53	U
95-50-1	1,2-Dichlorobenzene	53	U
96-12-8	1,2-Dibromo-3-chloropropane	53	U
120-82-1	1,2,4-Trichlorobenzene	53	U
87-68-3	Hexachlorobutadiene	53	U
91-20-3	Naphthalene	53	U
87-61-6	1,2,3-Trichlorobenzene	53	U
994-05-8	Tert-amyl Methyl Ether	53	U
75-71-8	Dichlorodifluoromethane	53	U
142-28-9	1,3-Dichloropropane	53	U
75-69-4	Trichlorofluoromethane	53	U
637-92-3	Ethyl Tert-butyl ether	53	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-2 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020438.D
 Sample wt/vol: 10.3 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.96 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	53	U
123-91-1	1,4-Dioxane	26000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-3 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020439.D
 Sample wt/vol: 9.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 3.91 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	58	U
74-83-9	Bromomethane	58	U
75-00-3	Chloroethane	58	U
67-64-1	Acetone	290	U
75-35-4	1,1-Dichloroethene	58	U
75-15-0	Carbon Disulfide	58	U
75-09-2	Methylene Chloride	290	U
1634-04-4	tert-Butyl methyl ether	58	U
156-60-5	trans-1,2 Dichloroethene	58	U
75-34-3	1,1-Dichloroethane	58	U
78-93-3	2-Butanone	290	U
594-20-7	2,2-Dichloropropane	58	U
156-59-2	cis-1,2-Dichloroethene	58	U
67-66-3	Chloroform	58	U
74-97-5	Bromochloromethane	58	U
71-55-6	1,1,1-Trichloroethane	58	U
563-58-6	1,1-Dichloropropene	58	U
56-23-5	Carbon Tetrachloride	58	U
71-43-2	Benzene	58	U
107-06-2	1,2-Dichloroethane	58	U
79-01-6	Trichloroethene	58	U
78-87-5	1,2-Dichloropropane	58	U
75-27-4	Bromodichloromethane	58	U
74-95-3	Dibromomethane	58	U
108-10-1	4-Methyl-2-pentanone	290	U
106-93-4	Ethylene Dibromide	58	U
10061-01-5	cis-1,3-Dichloropropene	58	U
108-88-3	Toluene	58	U
10061-02-6	Trans-1,3-Dichloropropene	58	U
79-00-5	1,1,2-Trichloroethane	58	U
591-78-6	2-Hexanone	290	U
127-18-4	Tetrachloroethene	58	U
124-48-1	Chlorodibromomethane	58	U
108-90-7	Chlorobenzene	58	U
630-20-6	1,1,1,2-Tetrachloroethane	58	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-3 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020439.D
 Sample wt/vol: 9.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 3.91 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	58	U
1330-20-7	m & p-Xylene	120	U
95-47-6	o-Xylene	58	U
100-42-5	Styrene	58	U
75-25-2	Bromoform	58	U
98-82-8	Isopropylbenzene	58	U
79-34-5	1,1,2,2-Tetrachloroethane	58	U
108-86-1	Bromobenzene	58	U
96-18-4	1,2,3-Trichloropropane	58	U
95-49-8	2-Chlorotoluene	58	U
103-65-1	n-Propylbenzene	58	U
108-67-8	1,3,5-Trimethylbenzene	58	U
106-43-4	4-Chlorotoluene	58	U
98-06-6	tert-Butylbenzene	58	U
95-63-6	1,2,4-Trimethylbenzene	58	U
135-98-8	sec-Butylbenzene	58	U
99-87-6	p-Isopropyltoluene	58	U
75-87-3	Chloromethane	58	U
75-65-0	tert butyl alcohol	58	U
541-73-1	1,3-Dichlorobenzene	58	U
109-99-9	Tetrahydrofuran	58	U
106-46-7	1,4-Dichlorobenzene	58	U
60-29-7	Diethyl Ether	58	U
104-51-8	n-Butylbenzene	58	U
95-50-1	1,2-Dichlorobenzene	58	U
96-12-8	1,2-Dibromo-3-chloropropane	58	U
120-82-1	1,2,4-Trichlorobenzene	58	U
87-68-3	Hexachlorobutadiene	58	U
91-20-3	Naphthalene	58	U
87-61-6	1,2,3-Trichlorobenzene	58	U
994-05-8	Tert-amyl Methyl Ether	58	U
75-71-8	Dichlorodifluoromethane	58	U
142-28-9	1,3-Dichloropropane	58	U
75-69-4	Trichlorofluoromethane	58	U
637-92-3	Ethyl Tert-butyl ether	58	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-3 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020439.D
 Sample wt/vol: 9.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 3.91 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	58	U
123-91-1	1,4-Dioxane	29000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-3 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020440.D
 Sample wt/vol: 11.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 2.15 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	46	U
74-83-9	Bromomethane	46	U
75-00-3	Chloroethane	46	U
67-64-1	Acetone	230	U
75-35-4	1,1-Dichloroethene	46	U
75-15-0	Carbon Disulfide	46	U
75-09-2	Methylene Chloride	230	U
1634-04-4	tert-Butyl methyl ether	46	U
156-60-5	trans-1,2 Dichloroethene	46	U
75-34-3	1,1-Dichloroethane	46	U
78-93-3	2-Butanone	230	U
594-20-7	2,2-Dichloropropane	46	U
156-59-2	cis-1,2-Dichloroethene	46	U
67-66-3	Chloroform	46	U
74-97-5	Bromochloromethane	46	U
71-55-6	1,1,1-Trichloroethane	46	U
563-58-6	1,1-Dichloropropene	46	U
56-23-5	Carbon Tetrachloride	46	U
71-43-2	Benzene	46	U
107-06-2	1,2-Dichloroethane	46	U
79-01-6	Trichloroethene	46	U
78-87-5	1,2-Dichloropropane	46	U
75-27-4	Bromodichloromethane	46	U
74-95-3	Dibromomethane	46	U
108-10-1	4-Methyl-2-pentanone	230	U
106-93-4	Ethylene Dibromide	46	U
10061-01-5	cis-1,3-Dichloropropene	46	U
108-88-3	Toluene	46	U
10061-02-6	Trans-1,3-Dichloropropene	46	U
79-00-5	1,1,2-Trichloroethane	46	U
591-78-6	2-Hexanone	230	U
127-18-4	Tetrachloroethene	46	U
124-48-1	Chlorodibromomethane	46	U
108-90-7	Chlorobenzene	46	U
630-20-6	1,1,1,2-Tetrachloroethane	46	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-3 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020440.D
 Sample wt/vol: 11.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 2.15 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	46	U
1330-20-7	m & p-Xylene	92	U
95-47-6	o-Xylene	46	U
100-42-5	Styrene	46	U
75-25-2	Bromoform	46	U
98-82-8	Isopropylbenzene	46	U
79-34-5	1,1,2,2-Tetrachloroethane	46	U
108-86-1	Bromobenzene	46	U
96-18-4	1,2,3-Trichloropropane	46	U
95-49-8	2-Chlorotoluene	46	U
103-65-1	n-Propylbenzene	46	U
108-67-8	1,3,5-Trimethylbenzene	46	U
106-43-4	4-Chlorotoluene	46	U
98-06-6	tert-Butylbenzene	46	U
95-63-6	1,2,4-Trimethylbenzene	46	U
135-98-8	sec-Butylbenzene	46	U
99-87-6	p-Isopropyltoluene	46	U
75-87-3	Chloromethane	46	U
75-65-0	tert butyl alcohol	46	U
541-73-1	1,3-Dichlorobenzene	46	U
109-99-9	Tetrahydrofuran	46	U
106-46-7	1,4-Dichlorobenzene	46	U
60-29-7	Diethyl Ether	46	U
104-51-8	n-Butylbenzene	46	U
95-50-1	1,2-Dichlorobenzene	46	U
96-12-8	1,2-Dibromo-3-chloropropane	46	U
120-82-1	1,2,4-Trichlorobenzene	46	U
87-68-3	Hexachlorobutadiene	46	U
91-20-3	Naphthalene	46	U
87-61-6	1,2,3-Trichlorobenzene	46	U
994-05-8	Tert-amyl Methyl Ether	46	U
75-71-8	Dichlorodifluoromethane	46	U
142-28-9	1,3-Dichloropropane	46	U
75-69-4	Trichlorofluoromethane	46	U
637-92-3	Ethyl Tert-butyl ether	46	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-3 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020440.D
 Sample wt/vol: 11.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 2.15 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	46	U
123-91-1	1,4-Dioxane	23000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-4 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020517.D
 Sample wt/vol: 10.7 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.43 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
67-64-1	Acetone	250	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon Disulfide	50	U
75-09-2	Methylene Chloride	250	U
1634-04-4	tert-Butyl methyl ether	50	U
156-60-5	trans-1,2 Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
78-93-3	2-Butanone	250	U
594-20-7	2,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
74-97-5	Bromochloromethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon Tetrachloride	50	U
71-43-2	Benzene	50	U
107-06-2	1,2-Dichloroethane	50	U
79-01-6	Trichloroethene	50	U
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
74-95-3	Dibromomethane	50	U
108-10-1	4-Methyl-2-pentanone	250	U
106-93-4	Ethylene Dibromide	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-88-3	Toluene	50	U
10061-02-6	Trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
124-48-1	Chlorodibromomethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-4 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020517.D
 Sample wt/vol: 10.7 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.43 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	50	U
1330-20-7	m & p-Xylene	100	U
95-47-6	o-Xylene	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
103-65-1	n-Propylbenzene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	p-Isopropyltoluene	50	U
75-87-3	Chloromethane	50	U
75-65-0	tert butyl alcohol	50	U
541-73-1	1,3-Dichlorobenzene	50	U
109-99-9	Tetrahydrofuran	50	U
106-46-7	1,4-Dichlorobenzene	50	U
60-29-7	Diethyl Ether	50	U
104-51-8	n-Butylbenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
91-20-3	Naphthalene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
994-05-8	Tert-amyl Methyl Ether	50	U
75-71-8	Dichlorodifluoromethane	50	U
142-28-9	1,3-Dichloropropane	50	U
75-69-4	Trichlorofluoromethane	50	U
637-92-3	Ethyl Tert-butyl ether	50	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-4 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020517.D
 Sample wt/vol: 10.7 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.43 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	50	U
123-91-1	1,4-Dioxane	25000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-4 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020518.D
 Sample wt/vol: 14.1 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 4.2 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	37	U
74-83-9	Bromomethane	37	U
75-00-3	Chloroethane	37	U
67-64-1	Acetone	190	U
75-35-4	1,1-Dichloroethene	37	U
75-15-0	Carbon Disulfide	37	U
75-09-2	Methylene Chloride	190	U
1634-04-4	tert-Butyl methyl ether	37	U
156-60-5	trans-1,2 Dichloroethene	37	U
75-34-3	1,1-Dichloroethane	37	U
78-93-3	2-Butanone	190	U
594-20-7	2,2-Dichloropropane	37	U
156-59-2	cis-1,2-Dichloroethene	37	U
67-66-3	Chloroform	37	U
74-97-5	Bromochloromethane	37	U
71-55-6	1,1,1-Trichloroethane	37	U
563-58-6	1,1-Dichloropropene	37	U
56-23-5	Carbon Tetrachloride	37	U
71-43-2	Benzene	37	U
107-06-2	1,2-Dichloroethane	37	U
79-01-6	Trichloroethene	37	U
78-87-5	1,2-Dichloropropane	37	U
75-27-4	Bromodichloromethane	37	U
74-95-3	Dibromomethane	37	U
108-10-1	4-Methyl-2-pentanone	190	U
106-93-4	Ethylene Dibromide	37	U
10061-01-5	cis-1,3-Dichloropropene	37	U
108-88-3	Toluene	37	U
10061-02-6	Trans-1,3-Dichloropropene	37	U
79-00-5	1,1,2-Trichloroethane	37	U
591-78-6	2-Hexanone	190	U
127-18-4	Tetrachloroethene	37	U
124-48-1	Chlorodibromomethane	37	U
108-90-7	Chlorobenzene	37	U
630-20-6	1,1,1,2-Tetrachloroethane	37	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-4 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020518.D
 Sample wt/vol: 14.1 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 4.2 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	37	U
1330-20-7	m & p-Xylene	74	U
95-47-6	o-Xylene	37	U
100-42-5	Styrene	37	U
75-25-2	Bromoform	37	U
98-82-8	Isopropylbenzene	37	U
79-34-5	1,1,2,2-Tetrachloroethane	37	U
108-86-1	Bromobenzene	37	U
96-18-4	1,2,3-Trichloropropane	37	U
95-49-8	2-Chlorotoluene	37	U
103-65-1	n-Propylbenzene	37	U
108-67-8	1,3,5-Trimethylbenzene	37	U
106-43-4	4-Chlorotoluene	37	U
98-06-6	tert-Butylbenzene	37	U
95-63-6	1,2,4-Trimethylbenzene	37	U
135-98-8	sec-Butylbenzene	37	U
99-87-6	p-Isopropyltoluene	37	U
75-87-3	Chloromethane	37	U
75-65-0	tert butyl alcohol	37	U
541-73-1	1,3-Dichlorobenzene	37	U
109-99-9	Tetrahydrofuran	37	U
106-46-7	1,4-Dichlorobenzene	37	U
60-29-7	Diethyl Ether	37	U
104-51-8	n-Butylbenzene	37	U
95-50-1	1,2-Dichlorobenzene	37	U
96-12-8	1,2-Dibromo-3-chloropropane	37	U
120-82-1	1,2,4-Trichlorobenzene	37	U
87-68-3	Hexachlorobutadiene	37	U
91-20-3	Naphthalene	37	U
87-61-6	1,2,3-Trichlorobenzene	37	U
994-05-8	Tert-amyl Methyl Ether	37	U
75-71-8	Dichlorodifluoromethane	37	U
142-28-9	1,3-Dichloropropane	37	U
75-69-4	Trichlorofluoromethane	37	U
637-92-3	Ethyl Tert-butyl ether	37	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-4 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020518.D
 Sample wt/vol: 14.1 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 4.2 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	37	U
123-91-1	1,4-Dioxane	19000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-5 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020519.D
 Sample wt/vol: 13.4 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.22 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	40	U
74-83-9	Bromomethane	40	U
75-00-3	Chloroethane	40	U
67-64-1	Acetone	200	U
75-35-4	1,1-Dichloroethene	40	U
75-15-0	Carbon Disulfide	40	U
75-09-2	Methylene Chloride	200	U
1634-04-4	tert-Butyl methyl ether	40	U
156-60-5	trans-1,2 Dichloroethene	40	U
75-34-3	1,1-Dichloroethane	40	U
78-93-3	2-Butanone	200	U
594-20-7	2,2-Dichloropropane	40	U
156-59-2	cis-1,2-Dichloroethene	40	U
67-66-3	Chloroform	40	U
74-97-5	Bromochloromethane	40	U
71-55-6	1,1,1-Trichloroethane	40	U
563-58-6	1,1-Dichloropropene	40	U
56-23-5	Carbon Tetrachloride	40	U
71-43-2	Benzene	40	U
107-06-2	1,2-Dichloroethane	40	U
79-01-6	Trichloroethene	40	U
78-87-5	1,2-Dichloropropane	40	U
75-27-4	Bromodichloromethane	40	U
74-95-3	Dibromomethane	40	U
108-10-1	4-Methyl-2-pentanone	200	U
106-93-4	Ethylene Dibromide	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
108-88-3	Toluene	40	U
10061-02-6	Trans-1,3-Dichloropropene	40	U
79-00-5	1,1,2-Trichloroethane	40	U
591-78-6	2-Hexanone	200	U
127-18-4	Tetrachloroethene	40	U
124-48-1	Chlorodibromomethane	40	U
108-90-7	Chlorobenzene	40	U
630-20-6	1,1,1,2-Tetrachloroethane	40	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-5 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020519.D
 Sample wt/vol: 13.4 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.22 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	40	U
1330-20-7	m & p-Xylene	80	U
95-47-6	o-Xylene	40	U
100-42-5	Styrene	40	U
75-25-2	Bromoform	40	U
98-82-8	Isopropylbenzene	40	U
79-34-5	1,1,2,2-Tetrachloroethane	40	U
108-86-1	Bromobenzene	40	U
96-18-4	1,2,3-Trichloropropane	40	U
95-49-8	2-Chlorotoluene	40	U
103-65-1	n-Propylbenzene	40	U
108-67-8	1,3,5-Trimethylbenzene	40	U
106-43-4	4-Chlorotoluene	40	U
98-06-6	tert-Butylbenzene	40	U
95-63-6	1,2,4-Trimethylbenzene	40	U
135-98-8	sec-Butylbenzene	40	U
99-87-6	p-Isopropyltoluene	40	U
75-87-3	Chloromethane	40	U
75-65-0	tert butyl alcohol	40	U
541-73-1	1,3-Dichlorobenzene	40	U
109-99-9	Tetrahydrofuran	40	U
106-46-7	1,4-Dichlorobenzene	40	U
60-29-7	Diethyl Ether	40	U
104-51-8	n-Butylbenzene	40	U
95-50-1	1,2-Dichlorobenzene	40	U
96-12-8	1,2-Dibromo-3-chloropropane	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
87-68-3	Hexachlorobutadiene	40	U
91-20-3	Naphthalene	40	U
87-61-6	1,2,3-Trichlorobenzene	40	U
994-05-8	Tert-amyl Methyl Ether	40	U
75-71-8	Dichlorodifluoromethane	40	U
142-28-9	1,3-Dichloropropane	40	U
75-69-4	Trichlorofluoromethane	40	U
637-92-3	Ethyl Tert-butyl ether	40	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-5 (2')
 Matrix: (soil/water) SOIL Lab File ID: C020519.D
 Sample wt/vol: 13.4 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.22 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	40	U
123-91-1	1,4-Dioxane	20000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-5 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020520.D
 Sample wt/vol: 13.5 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.23 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	40	U
74-83-9	Bromomethane	40	U
75-00-3	Chloroethane	40	U
67-64-1	Acetone	200	U
75-35-4	1,1-Dichloroethene	40	U
75-15-0	Carbon Disulfide	40	U
75-09-2	Methylene Chloride	200	U
1634-04-4	tert-Butyl methyl ether	40	U
156-60-5	trans-1,2 Dichloroethene	40	U
75-34-3	1,1-Dichloroethane	40	U
78-93-3	2-Butanone	200	U
594-20-7	2,2-Dichloropropane	40	U
156-59-2	cis-1,2-Dichloroethene	40	U
67-66-3	Chloroform	40	U
74-97-5	Bromochloromethane	40	U
71-55-6	1,1,1-Trichloroethane	40	U
563-58-6	1,1-Dichloropropene	40	U
56-23-5	Carbon Tetrachloride	40	U
71-43-2	Benzene	40	U
107-06-2	1,2-Dichloroethane	40	U
79-01-6	Trichloroethene	40	U
78-87-5	1,2-Dichloropropane	40	U
75-27-4	Bromodichloromethane	40	U
74-95-3	Dibromomethane	40	U
108-10-1	4-Methyl-2-pentanone	200	U
106-93-4	Ethylene Dibromide	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
108-88-3	Toluene	40	U
10061-02-6	Trans-1,3-Dichloropropene	40	U
79-00-5	1,1,2-Trichloroethane	40	U
591-78-6	2-Hexanone	200	U
127-18-4	Tetrachloroethene	40	U
124-48-1	Chlorodibromomethane	40	U
108-90-7	Chlorobenzene	40	U
630-20-6	1,1,1,2-Tetrachloroethane	40	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-5 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020520.D
 Sample wt/vol: 13.5 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.23 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	40	U
1330-20-7	m & p-Xylene	80	U
95-47-6	o-Xylene	40	U
100-42-5	Styrene	40	U
75-25-2	Bromoform	40	U
98-82-8	Isopropylbenzene	40	U
79-34-5	1,1,2,2-Tetrachloroethane	40	U
108-86-1	Bromobenzene	40	U
96-18-4	1,2,3-Trichloropropane	40	U
95-49-8	2-Chlorotoluene	40	U
103-65-1	n-Propylbenzene	40	U
108-67-8	1,3,5-Trimethylbenzene	40	U
106-43-4	4-Chlorotoluene	40	U
98-06-6	tert-Butylbenzene	40	U
95-63-6	1,2,4-Trimethylbenzene	40	U
135-98-8	sec-Butylbenzene	40	U
99-87-6	p-Isopropyltoluene	40	U
75-87-3	Chloromethane	40	U
75-65-0	tert butyl alcohol	40	U
541-73-1	1,3-Dichlorobenzene	40	U
109-99-9	Tetrahydrofuran	40	U
106-46-7	1,4-Dichlorobenzene	40	U
60-29-7	Diethyl Ether	40	U
104-51-8	n-Butylbenzene	40	U
95-50-1	1,2-Dichlorobenzene	40	U
96-12-8	1,2-Dibromo-3-chloropropane	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
87-68-3	Hexachlorobutadiene	40	U
91-20-3	Naphthalene	40	U
87-61-6	1,2,3-Trichlorobenzene	40	U
994-05-8	Tert-amyl Methyl Ether	40	U
75-71-8	Dichlorodifluoromethane	40	U
142-28-9	1,3-Dichloropropane	40	U
75-69-4	Trichlorofluoromethane	40	U
637-92-3	Ethyl Tert-butyl ether	40	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: S-5 (8')
 Matrix: (soil/water) SOIL Lab File ID: C020520.D
 Sample wt/vol: 13.5 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 7.23 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	40	U
123-91-1	1,4-Dioxane	20000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK020414
 Matrix: (soil/water) SOIL Lab File ID: C020426.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 0 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
67-64-1	Acetone	250	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon Disulfide	50	U
75-09-2	Methylene Chloride	250	U
1634-04-4	tert-Butyl methyl ether	50	U
156-60-5	trans-1,2 Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
78-93-3	2-Butanone	250	U
594-20-7	2,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
74-97-5	Bromochloromethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon Tetrachloride	50	U
71-43-2	Benzene	50	U
107-06-2	1,2-Dichloroethane	50	U
79-01-6	Trichloroethene	50	U
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
74-95-3	Dibromomethane	50	U
108-10-1	4-Methyl-2-pentanone	250	U
106-93-4	Ethylene Dibromide	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-88-3	Toluene	50	U
10061-02-6	Trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
124-48-1	Chlorodibromomethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK020414
 Matrix: (soil/water) SOIL Lab File ID: C020426.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 0 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	50	U
1330-20-7	m & p-Xylene	100	U
95-47-6	o-Xylene	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
103-65-1	n-Propylbenzene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	p-Isopropyltoluene	50	U
75-87-3	Chloromethane	50	U
75-65-0	tert butyl alcohol	50	U
541-73-1	1,3-Dichlorobenzene	50	U
109-99-9	Tetrahydrofuran	50	U
106-46-7	1,4-Dichlorobenzene	50	U
60-29-7	Diethyl Ether	50	U
104-51-8	n-Butylbenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
91-20-3	Naphthalene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
994-05-8	Tert-amyl Methyl Ether	50	U
75-71-8	Dichlorodifluoromethane	50	U
142-28-9	1,3-Dichloropropane	50	U
75-69-4	Trichlorofluoromethane	50	U
637-92-3	Ethyl Tert-butyl ether	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK020414
 Matrix: (soil/water) SOIL Lab File ID: C020426.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 0 Date Analyzed: 2/4/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	50	U
123-91-1	1,4-Dioxane	25000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK020514
 Matrix: (soil/water) SOIL Lab File ID: C020516.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 0 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
67-64-1	Acetone	250	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon Disulfide	50	U
75-09-2	Methylene Chloride	250	U
1634-04-4	tert-Butyl methyl ether	50	U
156-60-5	trans-1,2 Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
78-93-3	2-Butanone	250	U
594-20-7	2,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
74-97-5	Bromochloromethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon Tetrachloride	50	U
71-43-2	Benzene	50	U
107-06-2	1,2-Dichloroethane	50	U
79-01-6	Trichloroethene	50	U
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
74-95-3	Dibromomethane	50	U
108-10-1	4-Methyl-2-pentanone	250	U
106-93-4	Ethylene Dibromide	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-88-3	Toluene	50	U
10061-02-6	Trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
124-48-1	Chlorodibromomethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK020514
 Matrix: (soil/water) SOIL Lab File ID: C020516.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 0 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	50	U
1330-20-7	m & p-Xylene	100	U
95-47-6	o-Xylene	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
103-65-1	n-Propylbenzene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	p-Isopropyltoluene	50	U
75-87-3	Chloromethane	50	U
75-65-0	tert butyl alcohol	50	U
541-73-1	1,3-Dichlorobenzene	50	U
109-99-9	Tetrahydrofuran	50	U
106-46-7	1,4-Dichlorobenzene	50	U
60-29-7	Diethyl Ether	50	U
104-51-8	n-Butylbenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
91-20-3	Naphthalene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
994-05-8	Tert-amyl Methyl Ether	50	U
75-71-8	Dichlorodifluoromethane	50	U
142-28-9	1,3-Dichloropropane	50	U
75-69-4	Trichlorofluoromethane	50	U
637-92-3	Ethyl Tert-butyl ether	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0204-22 Client Name: PARE
 Method: 8260 Lab Sample ID: VBLK020514
 Matrix: (soil/water) SOIL Lab File ID: C020516.D
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 2/4/2014
 % Moisture 0 Date Analyzed: 2/5/2014
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Analyst's Initials: NS Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	50	U
123-91-1	1,4-Dioxane	25000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NEW ENGLAND TESTING LAB Contract: BLACKSTONE V
 Lab Code: RI010 Case No.: A0204-22 SAS No.: _____ SDG No.: PARE
 Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VLCS020414	104	112	104	0
02	VBLK020414	101	109	109	0
03	S-1 (2')	102	110	108	0
04	S-1 (7')	102	110	109	0
05	SC-1	101	110	103	0
06	SC-2	101	110	108	0
07	SC-3	101	108	107	0
08	SC-4	100	108	108	0
09	SC-5	101	110	106	0
10	S-6	102	108	100	0
11	S-7	101	109	102	0
12	S-8	99	109	107	0
13	S-2 (2')	101	109	107	0
14	S-2 (8')	100	109	103	0
15	S-3 (2')	101	110	108	0
16	S-3 (8')	102	109	105	0
17	VLCS020514	100	99	99	0
18	VBLK020514	97	99	103	0
19	S-4 (2')	97	99	103	0
20	S-4 (8')	97	99	104	0
21	S-5 (2')	96	99	104	0
22	S-5 (8')	97	100	106	0

QC LIMITS

SMC1 = 4-Bromofluorobenzene (70-130)
 SMC2 = Toluene-D8 (70-130)
 SMC3 = 1,2-Dichloroethane-D4 (70-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

Volatile Organics Laboratory Control Spike

Date Analyzed: 02/05/2014

Sample ID: VLCS020514

Compound	Spike Added	Spike Result	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
1,1-Dichloroethene	50.0	49.2	98	70	129
Benzene	50.0	48.3	97	73	129
Trichloroethene	50.0	47.5	95	77	122
Toluene	50.0	48.3	97	75	123
Chlorobenzene	50.0	49.1	98	73	125

Volatile Organics Laboratory Control Spike

Date Analyzed: 02/04/2014

Sample ID: VLCS020414

Compound	Spike Added	Spike Result	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
1,1-Dichloroethene	50.0	58.3	117	70	129
Benzene	50.0	62.3	125	73	129
Trichloroethene	50.0	57.0	114	77	122
Toluene	50.0	59.7	119	75	123
Chlorobenzene	50.0	47.8	96	73	125

A0204-22

NEW ENGLAND TESTING LABORATORY, INC.
 1254 Douglas Avenue
 North Providence, RI 02904
 1-888-863-8522

CHAIN OF CUSTODY RECORD

PROJECT NAME/LOCATION		CLIENT		INVOICE TO		REPORT TO		PROJECT NAME/LOCATION		CLIENT		INVOICE TO		REPORT TO		TESTS		REMARKS		
13062.09		Blackstone Valley Prop / Cumberland, RI		Accounting		Sdriscoll@parecorp.com		Accounting		Accounting		Sdriscoll@parecorp.com		Accounting		VOCs		Vapor Intrusion Analysis		
DATE	TIME	COMP	GRAB	SAMPLE I.D.	ADJ	SC	NO. OF CONTAINERS	OTHER	NO. OF CONTAINERS	ADJ	SC	NO. OF CONTAINERS	OTHER	NO. OF CONTAINERS	TESTS	REMARKS				
2/11/14	8:45			S-1 (2')			2		2						X					
	9:00			S-1 (7')											X					
	11:20			SC-1											X					
	11:25			SC-2											X					
	11:36			SC-3											X					
	11:35			SC-4											X					
	11:40			SC-5											X					
	1:00			S-6											X					
	1:15			S-7											X					
	1:40			S-8											X					
	1:55			S-2 (2')											X					
	1:30.5			S-2 (8')											X					
	1:31.5			S-3 (2')											X					
	1:52.0			S-3 (8')											X					
	1:32.5			S-4 (2')											X					
	1:33.8			S-4 (8')											X					
	1:34.0			S-5 (2')											X					
	1:34.5			S-5 (8')											X					
Sampled by: (Signature)		Shawn P. Dwyer		Date/Time	2/11/14	2:50 pm	Received by: (Signature)		Shawn P. Dwyer		Date/Time		Laboratory Remarks:		Temp. received: 6		Special Instructions:		*Expedited	
Relinquished by: (Signature)		Shawn P. Dwyer		Date/Time	2/11/14	2:50 pm	Received by: (Signature)		Shawn P. Dwyer		Date/Time	2/11/14	Cooled <input type="checkbox"/>		Limit Requirements:		Turnaround (Business Days)		2	
Relinquished by: (Signature)		Shawn P. Dwyer		Date/Time			Received by: (Signature)				Date/Time									

**Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

APPENDIX K

Letter of Responsibility





RHODE ISLAND

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

LETTER OF RESPONSIBILITY

File No. SR-08-1723

January 24, 2014

CERTIFIED MAIL

Ms. Janelle Bosek
Civic Builders
304 Hudson Street
New York, NY 10013

RE: Blackstone Valley Prep School
52 Broad Street
Cumberland, Rhode Island
Plat Map 2 / Lot 26

Dear Ms. Bosek:

On November 9, 2011, the Rhode Island Department of Environmental Management (the Department) enacted the amended Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (the Remediation Regulations). The purpose of these regulations is to create an integrated program requiring reporting, investigation and remediation of contaminated sites in order to eliminate and/or control threats to human health and the environment in an efficient manner. A Letter of Responsibility (LOR) is a preliminary document used by the Department to codify and define the relationship between the Department and a Performing Party.

Please be advised of the following facts:

1. The above referenced property is located at 52 Broad Street, Cumberland, Rhode Island (the Site). The Site is further identified by the Town of Cumberland Tax Assessor's Office as Plat Map 2 / Lot 26.
2. The Department is in receipt of the following documents:
 - a. Geotechnical Design Basis Report, received by the Department on January 16, 2014, prepared by PARE Corporation (PARE), submitted by Rhode Island Department of Elementary and Secondary Education (RIDE);
 - b. Notification of Release, received by the Department on January 16, 2014, prepared and submitted by PARE; and
 - c. Geotechnical Report Review, received by the Department on January 16, 2014,

prepared by Northeast Geotechnical, Inc., submitted by RIDE.

3. The above referenced documents identify concentrations of total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs), arsenic, lead, and mercury in Site soils that exceed the Department's Method 1 Direct Exposure Criteria, as referenced in the Remediation Regulations.
4. Based on the presence and nature of these Hazardous Substances and petroleum hydrocarbons, the Department concurs that a Release of Hazardous Materials has occurred as defined by Rules 3.33, 3.34, 3.59, and 3.63 of the Remediation Regulations.
5. Civic Builders is identified as the current owner of the Site by the Town of Cumberland Tax Assessor's office and as such is a Responsible Party as defined by Rule 3.70 of the Remediation Regulations.

As a result of the information known and the conditions observed at the site, the Department requests that Civic Builders comply with the following:

1. If necessary, prior to the implementation of any additional site investigation field activities and in accordance with Rule 7.07(A)(i) of the Remediation Regulations, Civic Builders must notify all abutting property owners, tenants, easement holders, and the municipality that an investigation is about to occur. The notice should briefly indicate the purpose of the investigation, the work to be performed, and the approximate scheduled dates of activities. Please submit a draft notification to the Department via E-mail for review and approval prior to distribution. A boilerplate notification to be distributed can be found online at: <http://www.dem.ri.gov/programs/benviron/waste/topicrem.htm#process>.

The Department will require a copy of the public notice letter and a list of all recipients. Failure to comply with the aforementioned items may result in enforcement actions as specified in Rhode Island General Laws 23-19.1-17 and 23-19.1-18.

2. Ensure that the requirements of Rhode Island General Law (RIGL), Title 23, *Health and Safety*, Chapter 23-19.14, *Industrial Property Remediation and Reuse Act*, Section 23-19.14-5, *Environmental Equity and Public Participation*, have been fulfilled. A copy of this section of the RIGL has been attached for your reference. In accordance with the Industrial Property Remediation and Reuse Act, prior to the establishment of a final scope of investigation for the Site, and after the completion of All Appropriate Inquiries (AAI), hold a public meeting for the purposes of obtaining information about conditions at the Site and the environmental history at the Site that may be useful in establishing the scope of the investigation and/or establishing the objectives for the environmental clean-up of the Site.
 - a. The public meeting shall be held in the City or Town in which the Site is located.
 - b. Public notice shall be given of the meeting at least ten (10) business days prior to the meeting.

- c. Following the meeting, the record of the meeting shall be open for a period of not less than ten (10) and not more than twenty (20) business days for the receipt of public comment.
- d. The results of all appropriate inquiries, analysis and the public meeting, including the comment period and responses to all comments received, shall be documented in a written report submitted to the Department.

No work (remediation or construction) shall be permitted at the property until the public meeting and comment period regarding the Site's proposed reuse has closed. The above detailed required public notice, meeting and comment period shall be in addition to any other requirements for public notice and comment relating to the investigation or remedy of the Site and may be part of another meeting pertaining to the Site provided that the minimum standards established by RIGL Section 23-19.14-5 for notice and comment are met.

3. Additionally, ensure that the requirements of RIGL Title 23, *Health and Safety*, Chapter 23-19.14, *Industrial Property Remediation and Reuse Act*, Section 23-19.14-4, *Objectives of Environmental Clean-Up* have been met. A copy of this section of the RIGL has been attached for your reference. The requirements of the Objectives of Environmental Clean-Up statute, include, but are not limited to the following:
 - a. The site investigation shall include analysis for the chemicals of potential concern for vapor intrusion. The list of chemicals of potential concern for vapor intrusion is attached for your reference;
 - b. Remediate the soils where chemicals of potential concern for vapor intrusion or petroleum exceed the residential direct exposure criteria through the physical removal of said chemicals or petroleum through excavation or in situ treatment; and
 - c. Equip the school building with both a passive sub slab ventilation system capable of conversion to an active system and a vapor barrier beneath the school building or incorporated in the concrete slab, all in compliance with an approved Department Remedial Action Work Plan (RAWP) and completed prior to the occupancy of the school;
4. Conduct further investigation of the Site soil and groundwater, if warranted, in accordance with Section 7.00 of the Remediation Regulations.
5. Upon completion of the additional site investigation submit a Site Investigation Report (SIR) in accordance with Section 7.00 of the Remediation Regulations within ninety (90) days from the date of this letter. Given that some limited environmental investigation has already been performed at the Site, you may incorporate portions of the information already gathered and work already performed to address the items covered in Section 7.00. The SIR should include at least two remedial alternatives other than no action/natural attenuation and include future plans for the re-use or redevelopment (if applicable) of the property.
6. Submit an SIR checklist in accordance with Rule 7.08 of the Remediation Regulations. The SIR checklist was created as a supplemental tool to expedite the review and approval process

by cross-referencing the specific sections and pages within the SIR that provide the detailed information that addresses each stated requirement within Section 7.00 of the Remediation Regulations.

7. Upon approval by the Department of the SIR, be prepared to bring the Site into compliance with the Remediation Regulations.

Please be advised that Civic Builders, as the Responsible Party, is responsible for the proper investigation and remediation of hazardous substances and petroleum hydrocarbons at this site. Also be advised that any remedial alternative that proposes to leave contaminated media on-site at levels which exceed the Department's Residential Direct Exposure Criteria, applicable Leachability Criteria, or applicable Groundwater Criteria will, at a minimum, necessitate the recording of an institutional control in the form of an Environmental Land Usage Restriction (ELUR) on the deed for the site, and will likely require implementation of additional engineered controls to restrict human exposure.

Please notify this office within seven days of the receipt of this letter of your plans to address these items. All correspondences should be sent to the attention of:

Ashley L. Blauvelt
RIDEM / Office of Waste Management
235 Promenade Street
Providence, RI 02908

If you have any questions regarding this letter or would like the opportunity to meet with Department personnel, please contact me by telephone at (401) 222-2797, ext. 7026, or by E-mail at ashley.blauvelt@dem.ri.gov.

Sincerely,



Ashley L. Blauvelt
Sanitary Engineer
Office of Waste Management

cc: Terrence Gay, Assoc. Director for Environmental Protection, RIDEM/Office of the Director
Leo Hellested, Chief, RIDEM/OWM
Matthew DeStefano, Deputy Chief, RIDEM/OWM
Kelly J. Owens, Assoc. Supervising Engineer, RIDEM/OWM
Jeffrey Crawford, Principal Environmental Scientist, RIDEM/OWM
Susan Forcier, Esq., RIDEM/Legal Services
Nichole Pollock, Legislative Liaison, RIDEM/Office of the Director
Joseph da Silva, RI Dept. of Elementary and Secondary Education
Timothy P. Thies, PARE Corporation

Attachments: RIGL 23-19.14-5, *Environmental Equity and Public Participation*
RIGL 23-19.14-4, *Objectives of Environmental Clean-Up*
List of Chemicals of Potential Concern for Vapor Intrusion

TITLE 23

Health and Safety

CHAPTER 23-19.14

Industrial Property Remediation and Reuse Act

SECTION 23-19.14-5

§ 23-19.14-5 Environmental equity and public participation. – (a) The department of environmental management shall consider the effects that clean-ups would have on the populations surrounding each site and shall consider the issues of environmental equity for low income and racial minority populations. The department of environmental management will develop and implement a process to ensure community involvement throughout the investigation and remediation of contaminated sites. That process shall include, but not be limited to, the following components:

- (1) Notification to abutting residents when a work plan for a site investigation is proposed;
- (2) Adequate availability of all public records concerning the investigation and clean-up of the site, including, where necessary, the establishment of informational repositories in the impacted community; and
- (3) Notification to abutting residents, and other interested parties, when the investigation of the site is deemed complete by the department of environmental management.
- (4) Whenever a site that is known to be contaminated or is suspected of being contaminated based upon its past use is considered for possible reuse as the location of a school, child-care facility, or as a recreational facility for public use, the person proposing such reuse shall, prior to the establishment of a final scope of investigation for the site and after the completion of all appropriate inquiries, hold a public meeting for the purposes of obtaining information about conditions at the site and the environmental history at the site that may be useful in establishing the scope of the investigation of the site and/or establishing the objectives for the environmental clean-up of the site. The public meeting shall be held in a city or town in which the site is located; public notice shall be given of the meeting at least ten (10) business days prior to the meeting; and following the meeting, the record of the meeting shall be open for a period of not less than ten (10) and not more than twenty (20) business days for the receipt of public comment. The results of all appropriate inquiries, analysis and the public meeting, including the comment period, shall be documented in a written report submitted to the department.
 - (ii) No work (remediation or construction), shall be permitted at the property until the public meeting and comment period regarding the site's proposed reuse has closed except where the director determines that such work is necessary to mitigate or prevent:
 - (A) an imminent threat to human health, public safety or the environment; or
 - (B) off-site migration of known or suspected contamination.
 - (iii) The public notice, meeting and comment required by this section shall be in addition to any other

requirements for public notice and comment relating to the investigation or remedy of the site and may be made part of another meeting pertaining to the site provided that the minimum standards established by this section for notice and comment are met. Any investigation or remediation undertaken prior to the completion of the public comment period shall be limited to measures necessary to define and/or mitigate the imminent threat and/or off-site migration.

(iv) The director shall establish, by regulation, standards and practice, which are consistent with federal practices, for purposes of satisfying the requirement to carry out all appropriate inquiries for the purposes of this chapter, the standard for the reporting of the results of those inquiries, and the process for notification to the public of the public meeting, the standards and practices for conducting the public meeting, and reporting on public comment.

(b) Effective until January 1, 2007, the community involvement process may be coordinated, as appropriate, with the public notice and comment opportunity provided in § 23-19.14-11.

(c) The department of environmental management will develop and implement a process by which a person that is or may be affected by a release or threatened release of a hazardous material at a site located in the community in which the person works or resides may request the conduct of a site assessment; and a decision process, with objective criteria, specifying how the department will consider and appropriately respond to such requests.

(d) The department of environmental management will maintain, update not less than annually, and make available to the public a record of sites, by name and location, at which remedial actions have been completed in the previous year and are planned to be addressed under the state site remediation and Brownfields program in the upcoming year. The public record shall identify whether or not the site, on completion of the remedial action, will be suitable for unrestricted use and, if not, shall identify the institutional controls relied on in the remedy.

History of Section.

(P.L. 1995, ch. 187, § 1; P.L. 2002, ch. 186, § 1; P.L. 2006, ch. 250, § 1; P.L. 2006, ch. 275, § 1.)

TITLE 23

Health and Safety

CHAPTER 23-19.14

Industrial Property Remediation and Reuse Act

SECTION 23-19.14-4

§ 23-19.14-4 Objectives of environmental clean-up. – (a) The department of environmental management will develop, maintain and publish numerical objectives for the most commonly found hazardous substances. These objectives will be applicable for the clean-up of contaminated properties to levels which are protective of human health and the environment based on current and reasonably foreseeable future use of a property and the surrounding natural resources. To further ensure the safety of school children while attending school, the department of environmental management, shall:

(1) Adopt numerical objectives for properties dedicated to school use equivalent to the numerical objectives set by the department for residential use of such properties;

(2) Evaluate chemicals of concern for vapor intrusion and adopt numerical objectives for those contaminants in soil and groundwater where such standards do not already exist in regulation and apply the numerical objectives for residential use established for said chemicals and petroleum to properties dedicated to school use; and

(3) Develop and adopt procedures for determining whether levels of chemicals of potential concern for vapor intrusion and petroleum in soil or groundwater pose a reasonable potential for migration of contaminated vapors or gases into structures to be utilized as school facilities.

(b) The construction of any new school building; or

(2) Construction of an addition to any existing school building; or

(3) Leasing of any portion of an existing building to serve as a school shall be prohibited on any portion of a parcel of property for which, upon occupancy, there exists an ongoing potential for hazardous materials and/or petroleum to migrate as vapors or gases into the building from the subsurface of the parcel of property, unless:

(i) At a property where concentrations of chemicals of potential concern for vapor intrusion or petroleum in the subsurface exceed the residential direct exposure criteria in soil, source areas of said chemicals or petroleum within the vadose zone of the site that includes said property shall be remediated:

(A) Through the physical removal of said chemicals or petroleum through excavation or in situ treatment; and

(B) The school building shall be equipped with both a passive sub slab ventilation system capable of conversion to an active system and a vapor barrier beneath the school building or incorporated in the

concrete slab, all in compliance with an approved department of environmental management remedial action work plan and completed prior to the occupancy of the school;

(ii) At a property where concentrations of chemicals of potential concern for vapor intrusion or petroleum in the subsurface do not exceed the residential direct exposure criteria in soil but contamination exists on the property due to the presence of any chemicals of potential concern for vapor intrusion or petroleum in groundwater, the department of environmental management shall:

(A) Require the property's owner or operator to prepare a site specific conceptual site model and conduct soil gas sampling to determine the location of the source area of said chemicals or petroleum in the site's vadose zone;

(B) Evaluate the results of said model and sampling to determine if levels of any chemicals of potential concern for vapor intrusion or petroleum could migrate as vapors or gases into the occupied portions of the building where the school is proposed based on procedures developed pursuant to this chapter; and

(C) Where the reasonable potential for migration of contaminated vapors or gases is determined to exist, the department shall require remediation to eliminate said potential as follows:

(I) Where the source area is located on the site that includes said property, requiring the physical removal of said chemicals or petroleum in the source area in the vadose zone through excavation or in situ treatment; provided, the concentrations of said chemicals or petroleum in said source area exceed the direct residential exposure criteria in soil; and

(II) Requiring the installation of both a passive sub slab ventilation system capable of conversion to an active system and a vapor barrier beneath the school building or incorporated in the concrete slab, all in compliance with an approved department of environmental management remedial action work plan and completed prior to the occupancy of the school; and, provided further, should monitoring of a passive sub-slab ventilation system indicate that active ventilation is necessary to protect the health and safety of users of a school equipped with a passive system, the department of environmental management shall require conversion of the passive system to an active system along with financial assurances to provide for the funding of the operation and monitoring of said active system for as long as active ventilation is deemed necessary by the department.

(iii) At a property where concentrations of chemicals of potential concern for vapor intrusion or petroleum in the subsurface do not exceed the residential direct exposure criteria in soil on the site that includes said property, and where the department has determined that levels of any chemicals of potential concern for vapor intrusion or petroleum will not present a reasonable potential for migration of contaminated vapors or gases into structures to be utilized as school facilities on the property, the property may be used for school purposes subject to any conditions that the department of environmental management may impose pursuant to this chapter.

(c) The construction of any school building, or construction of an addition to any existing school building, or leasing of any portion of an existing building to serve as a school on any portion of a parcel of property formerly used for industrial, manufacturing or landfill purposes that is contaminated by hazardous materials, shall be prohibited unless at least thirty (30) days prior to selecting the location for construction or leasing the building the project sponsor undertakes all of the following measures with ten (10) days prior written notice to the public of each measure undertaken:

(1) Prepares and posts on the sponsor's website a written report that: (i) Projects the costs to acquire or

lease the property, and to cleanup and maintain the property in accordance with the department of environmental management's Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (the Remediation Regulations); (ii) Projects the time period required to complete a cleanup of the property for school purposes prior to occupancy by obtaining either an Interim Letter of Compliance, a Letter of Compliance or a Non-Jurisdictional Letter indicating that the property is not jurisdictional under the Remediation Regulations of the department of environmental management; (iii) Discusses the rationale for selecting the property for use as school purposes and an explanation of any alternatives to selecting said property considered by the project sponsor;

(2) Solicits written comments on the report prepared pursuant to subdivision (1) of this subsection for a period of at least thirty (30) days after posting said report on the sponsors website and conducts a public hearing during said thirty (30) day period at which public comment is taken on said report; and

(3) Prepares a second written report that summarizes and responds to the public comments received during the public comment period and at the public hearing and posts said second report on the sponsor's website.

(d) The sponsor of any school project subject to the provisions of subsection (c) of this section shall consider the results and findings contained in the reports required by subsection (c) when selecting the location of said project.

(e) As used in this section.

(1) The term "school" means any residential or non-residential school building, public, private or charter, of any city or town or community educational system regulated, directly or secondarily, by the board of regents for elementary and secondary education or the department of elementary and secondary education or any other state education board or local city or town school board or school committee or other legal educational subdivision acting under it. As used in this chapter, the term "school or schools" includes, but is not limited to, school playgrounds, school administration buildings, indoor school athletic facilities, school gymnasiums, school locker rooms, and similar school buildings. A school shall not include any institutions for education of adults (e.g. colleges, universities, graduate schools, trade schools) or child-care facilities as regulated by the department of children, youth and families.

(2) The term "landfill" means for the purposes of this section, any portion of a parcel of property that was used as a landfill as defined in § 23-19.1-4 or a sanitary landfill, dump or other disposal area where more than thirty (30) cubic yards of solid waste was disposed.

(3) The term "hazardous materials" means any materials defined as hazardous materials pursuant to § 23-19.14-3.

(4) The term "solid waste" means any materials defined as solid waste pursuant to § 23-18.9-7.

(5) The term "chemicals of potential concern for vapor intrusion" means those chemicals that the U.S. Environmental Protection Agency recommends for routine evaluation during vapor intrusion assessments in said Agency's most recent guidance on the assessment of vapor intrusion into indoor air from subsurface sources, and any other chemicals that the department of environmental management may recommend for said routine evaluation.

(6) The term "source area" means the horizontal and vertical extent of natural or man-made media impacted by a release of hazardous materials or causing a release of hazardous materials at

concentrations in excess of the numerical objectives developed pursuant to paragraph (a) of this section.

(7) The term "vadose zone" means the full extent of the soil column existing above the elevation of groundwater.

(8) The term "conceptual site model" means a written and/or illustrative representation of the physical, chemical and biological processes that control the transport, migration and actual or potential impacts of hazardous materials in soil, air, groundwater, surface water and/or sediments to human and/or ecological receptors at a site.

(f) The provisions of this section shall not apply to the renovation or reconstruction of any building for school purposes that was used continuously as a school for a period of at least twenty-five (25) years where: (1) The footprint of the building after renovation or reconstruction does not exceed more than five percent (5%) of the current footprint of the building; and (2) The site of the building is not subject to a remedial action work plan approved by the department of environmental management.

History of Section.

(P.L. 1995, ch. 187, § 1; P.L. 1997, ch. 41, § 1; P.L. 1997, ch. 60, § 1; P.L. 2012, ch. 163, § 1; P.L. 2012, ch. 179, § 1; P.L. 2013, ch. 296, § 1.)

Chemicals of Potential Concern for Vapor Intrusion

Acetaldehyde
Acetone
Acetone Cyanohydrin
Acetonitrile
Acrolein
Acrylonitrile
Allyl Chloride
Aroclor 1221
Aroclor 1232
Azobenzene
Benzene
Benzyl Chloride
Biphenyl, 1,1'-
Bis(2-chloro-1-methylethyl) ether
Bis(2-chloroethyl)ether
Bis(chloromethyl)ether
Bromo-2-chloroethane, 1-
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromomethane
Butadiene, 1,3-
Carbon Disulfide
Carbon Tetrachloride
Chloro-1,1-difluoroethane, 1-
Chloro-1,3-butadiene, 2-
Chlorobenzene
Chlorobenzotrifluoride, 4-
Chlorodifluoromethane
Chloroform
Chloromethane
Chloromethyl Methyl Ether
Chloropicrin
Cumene
Cyanide (CN-)
Cyclohexane
Cyclohexene
Dibromo-3-chloropropane, 1,2-
Dibromochloromethane
Dibromoethane, 1,2-
Dibromomethane (Methylene Bromide)
Dichloro-2-butene, 1,4-
Dichloro-2-butene, cis-1,4-
Dichloro-2-butene, trans-1,4-

Dichlorobenzene, 1,2-
Dichlorobenzene, 1,4-
Dichlorodifluoromethane
Dichloroethane, 1,1-
Dichloroethane, 1,2-
Dichloroethylene, 1,1-
Dichloroethylene, 1,2-trans-
Dichloropropane, 1,2-
Dichloropropene, 1,3-
Dicyclopentadiene
Difluoroethane, 1,1-
Dihydrosafrole
Diisopropyl Ether
Dimethylvinylchloride
Epichlorohydrin
Epoxybutane, 1,2-
Ethyl Chloride
Ethyl Methacrylate
Ethylbenzene
Ethyleneimine
Ethylene Oxide
Hexamethylene Diisocyanate, 1,6-
Hexane, N-
Hexanone, 2-
Hydrogen Cyanide
Mercury (elemental)
Methacrylonitrile
Methyl Acrylate
Methyl Ethyl Ketone (2-Butanone)
Methyl Isobutyl Ketone (4-methyl-2-pentanone)
Methyl Isocyanate
Methyl Methacrylate
Methyl Styrene (Mixed Isomers)
Methyl tert-Butyl Ether (MTBE)
Methylene Chloride
Naphthalene
Nitrobenzene
Nitromethane
Nitropropane, 2-
Nitroso-di-N-butylamine, N-
Nonane, n-
Pentane, n-
Phosgene
Propionaldehyde
Propyl benzene
Propylene

Propylene Glycol Dinitrate
Propylene Oxide
Styrene
Tetrachloroethane, 1,1,1,2-
Tetrachloroethane, 1,1,2,2-
Tetrachloroethylene
Tetrafluoroethane, 1,1,1,2-
Tetrahydrofuran
Toluene
Trichloro-1,2,2-trifluoroethane, 1,1,2-
Trichlorobenzene, 1,2,4-
Trichloroethane, 1,1,1-
Trichloroethane, 1,1,2-
Trichloroethylene
Trichlorofluoromethane
Trichloropropane, 1,2,3-
Trichloropropene, 1,2,3-
Triethylamine
Trimethylbenzene, 1,2,3-
Trimethylbenzene, 1,2,4-
Vinyl Acetate
Vinyl Bromide
Vinyl Chloride
Xylene, p-
Xylene, m-
Xylene, o-
Xylenes

APPENDIX L

Proposed Remedial Option Plan



APPENDIX M

SIR Checklist



APPENDIX "I"

**Section 7 of the "Remediation Regulations"
Site Investigation Report (SIR) Checklist**

(The following information shall be completed and submitted with the SIR)

Contact Name: Timothy P. Thies, P.E., Managing Engineer, Pare Corporation
Contact Address: 8 Blackstone Valley Place, Lincoln, Rhode Island 02865
Contact Telephone: (401) 334-4100

Site Name: Blackstone Valley Preparatory School
Site Address: 52 Broad Street, A.P. 2 Lot 26, Cumberland, Rhode Island 02864

OFFICE USE ONLY

SITE INVESTIGATION REPORT (SIR) SITE:
PROJECT CODE:
SIR SUBMITTAL DATE:
CHECKLIST SUBMITTAL DATE:

DIRECTIONS: *The box to the left of each item listed below is for the administrative review of the SIR submission and is for **RIDEM USE ONLY**. Under each item listed below, cross-reference the specific sections and pages in the SIR that provide detailed information that addresses each stated requirement. Failure to include cross-references shall delay review and approval. If an item is not applicable, simply state that it is not applicable and provide an explanation in the SIR.*

- 7.03.A. List specific objectives of the SIR related to characterization of the Release, impacts of the Release and remedy.

SECTION 7.03 A - PAGE 2

- 7.03.B. Include information reported in the Notification Of Release. A copy of the Release notification form should be included in the SIR. Include information relating to short-term response, if applicable.

SECTION 7.03 B - PAGE 2

- 7.03.C. Include documentation of any past incidents or Releases.

SECTION 7.03 C - PAGE 7

7.03.D. Include list of prior property Owners and Operators, as well as sequencing of property transfers and time periods of occupancy.

SECTION 7.03 D - PAGE 8

7.03.E. Include previously existing environmental information which characterizes the Contaminated-Site and all information that led to the discovery of the Contaminated-Site.

SECTION 7.03 E - PAGE 9

7.03.F. Include current uses and zoning of the Contaminated-Site, including brief statements of operations, processes employed, waste generated, Hazardous Materials handled, and any residential activities on the site, if applicable. (This section should be linked to the specific objectives section demonstrating how the compounds of concern in the investigation are those that are used or may have been used on the site or are those that may have impacted the site from an off-site source.)

SECTION 7.03 F - PAGE 9

7.03.G. Include a locus map showing the location of the site using US Geological Survey 7.5-min quadrangle map or a copy of a section of that USGS map.

SECTION 7.03 G - PAGE 9

7.03.H. Include a site plan, to scale, showing:

- Buildings
- Activities
- Structures
- North Arrow
- Wells
- UIC Systems, septic tanks, UST, piping and other underground structures
- Outdoor Hazardous Materials storage and handling areas
- Extent of paved areas

- Location of environmental samples previously taken with analytical results
- Waste management and disposal areas
- Property Lines

SECTION 7.03 H - PAGE 9

7.03.I. Include a general characterization of the property surrounding the area including, but not limited to:

- Location and distance to any surface water bodies within 500 ft of the site
- Location and distance to any Environmentally Sensitive Areas within 500 ft of the site
- Actual sources of potable water for all properties immediately abutting the site
- Location and distance to all public water supplies, which have been active within the previous 2 years and within one mile of the site
- Determination as to whether the Release impacts any off-site area utilized for residential or industrial/commercial property or both
- Determination of the underlying groundwater classification and if the classification is GB, the distance to the nearest GA area

SECTION 7.03 I - PAGE 10

7.03.J. Include classifications of surface and ground water at and surrounding the site that could be impacted by a Release.

SECTION 7.03 J - PAGE 11

7.03.K. Include a description of the contamination from the Release, including:

- Free liquids on the surface
- LNAPL and DNAPL

- Concentrations of Hazardous Substances which can be shown to present an actual or potential threat to human health and any concentrations in excess of any of the remedial objectives; (reference Section 12 for requirements related to arsenic in soil).
- Impact to Environmentally Sensitive Areas
- Contamination of man-made structures
- Odors or stained soil
- Stressed vegetation
- Presence of excavated or stockpiled material and an estimate of its total volume
- Environmental sampling locations, procedures and copies of the results of any analytical testing at the site
- List of Hazardous Substances at the site
- Discuss if the contamination falls outside of the jurisdiction of the Remediation Regulations, including but not limited to USTs, UICs, and wetlands

SECTION 7.03 K - PAGE 14

- 7.03.L. Include the concentration gradients of Hazardous Substances throughout the site for each media impacted by the Release.

SECTION 7.03 L - PAGE 15

- 7.03.M. Include the methodology and results of any investigation conducted to determine background concentrations of Hazardous Substances identified at the Contaminated-Site (see Section 12 for Special Requirements for Managing Arsenic in Soil).

SECTION 7.03 M - PAGE 18

- 7.03.N. Include a listing and evaluation of the site specific hydrogeological properties which could influence the migration of Hazardous Substances throughout and away from the site, including but not limited to, where appropriate:
 - Depth to GW
 - Presence and effects of both the natural and man-made barriers to and conduits

for contaminant migration

- Characterization of bedrock
- Groundwater contours, flow rates and gradients throughout the site

SECTION 7.03 N - PAGE 19

- 7.03.O. Include a characterization of the topography, surface water and run-off flow patterns, including the flooding potential, of the site

SECTION 7.03 O - PAGE 20

- 7.03.P. Include the potential for Hazardous Substances from the site to volatilize and any and all potential impacts of the volatilization to structures within the site.

SECTION 7.03 P - PAGE 21

- 7.03.Q. Include the potential for entrainment of Hazardous Substances from the site by wind or erosion actions.

SECTION 7.03 Q - PAGE 23

- 7.03.R. Include detailed protocols for all fate and transport models used in the Site Investigation.

SECTION 7.03 R - PAGE 23

- 7.03.S. Include a complete list of all samples taken, the location of all samples, parameters tested for and analytical methods used during the Site Investigation. (Be sure to include the samples locations and analytical results on a site figure).

SECTION 7.03 S - PAGE 23

- 7.03.T. Include construction plans and development procedures for all monitoring wells. Well construction shall be consistent with the requirements of Appendix 1 of the Groundwater Quality Rules.

SECTION 7.03 T - PAGE 26

- 7.03.U. Include procedures for the handling, storage and disposal of wastes derived from and during the investigation.

SECTION 7.03 U - PAGE 26

- 7.03.V. Include a quality assurance and quality control evaluation summary report for sample

handling and analytical procedures, including, but not limited to, chain-of-custody procedures and sample preservation techniques.

SECTION 7.03 V - PAGE 27

- 7.03.W. Include any other site-specific factor, that the Director believes, is necessary to make an accurate decision as to the appropriate Remedial Action to be taken at the site.

SECTION 7.03 X - PAGE 28

- 7.04 Include Remedial Alternatives. The Site Investigation Report **shall** contain a minimum of **2** remedial alternatives other than no action/natural attenuation alternative, unless this requirement is waived by the Department. It should be clear which of these alternatives is most preferable. All alternatives shall be supported by relevant data contained in the Site Investigation Report and consistent with the current and reasonably foreseeable land usage, and documentation of the following:
 - Compliance with Section 8 (RISK MANGEMENT);
 - Technical feasibility of the preferred remedial alternative;
 - Compliance with Federal, State and local laws or other public concerns; and
 - The ability of the Performing Party to perform the preferred remedial alternative

SECTION 3 - PAGE 29

- 7.05 **Certification Requirements:** The Site Investigation Report and all associated progress reports shall include the following statements signed by an authorized representative of the party specified:
 - A statement signed by an authorized representative of the Person who prepared the Site Investigation Report certifying the completeness and accuracy of the information contained in that report to the best of their knowledge; and
 - A statement signed by the Performing Party responsible for the submittal of the Site Investigation Report certifying that the report is a complete and accurate representation of the site and the Release and contains all known facts surrounding the Release to the best of their knowledge

CERTIFICATION - PAGE iii

- 7.06 **Progress Reports:** If the Site Investigation is not complete, include a schedule for the

submission of periodic progress reports on the status of the investigation and interim reports on any milestones achieved in the project

SITE INVESTIGATION IS COMPLETE

- 7.07 **Public Involvement and Notice:** Be prepared to implement public notice requirements per Section 7.07 and 7.09 of the Remediation Regulations when the Department deems the Site Investigation Report to be complete.

SECTION 7.03 W - PAGE 27

APPENDIX N

Limitations



GEOHYDROLOGICAL LIMITATIONS

1. PARE's work was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area, and PARE observed that degree of care and skill generally exercised by other consultants under similar circumstances and conditions. This work plan was designed to provide an appropriate level of remediation given our current understanding of site conditions. If additional data is obtained during the course of this project, PARE reserves the right to modify any and all of the criteria specified in this plan.
2. The conclusions and recommendations submitted in this report are based in part upon the data obtained from a limited number of soil samples from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further investigation. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the recommendations of this report.
3. Except as noted within the text of the report, no quantitative laboratory testing was performed as part of the site assessment. Where such analyses have been conducted by an outside laboratory, PARE has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these data.
4. The conclusions and recommendations contained in this report are based in part upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by PARE and the conclusions and recommendations presented therein modified accordingly.
5. Chemical analyses have been performed for specific parameters during the course of this study, as detailed in the text. It must be noted that additional constituents not searched for during the current study may be present in soil and groundwater at the site.
6. It is recommended that this firm be retained to provide further engineering services during design, implementation, and/or construction of any remedial measures, if necessary. This is to observe compliance with the concepts and recommendations contained herein and to allow design changes in the event that subsurface conditions differ from those anticipated.