

**FINAL REPORT  
NORFOLK SOUTHERN RAILWAY COMPANY  
OLD ATHENS TURNPIKE LEAD SITE  
PRINCETON, WEST VIRGINIA  
NSRC FILE NO. 1-9-WV-PRTN-SA08.253-001**

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## **1.0 BACKGROUND**

This Final Report (FR) was prepared on behalf of Norfolk Southern Railway Company (NSRC) by Marshall Miller & Associates (MM&A). In compliance with Paragraph 8.11 of the United States Environmental Protection Agency (USEPA) Administrative Settlement and Order on Consent for Removal Response Action, dated June 29, 2009 (Settlement Agreement), the FR describes the work performed to implement the approved Response Action Plan (RAP) and the items identified in Paragraph 8.3 of the Settlement Agreement. During the course of the work detailed status reports were submitted to USEPA every two weeks in compliance with Paragraph 8.7 of the Settlement Agreement. As described below, all requirements of the RAP and Paragraph 8.3 have been met.

### ***1.1 SITE LOCATION AND PHYSIOGRAPHIC SETTING***

The Old Athens Turnpike right-of-way (R-O-W) is depicted on the United States Geological Survey (USGS) 7.5-minute series Princeton and Athens, West Virginia Topographic Quadrangles (**Map 1, Appendix A**). The site is located within the Appalachian Plateau physiographic province. The Old Athens Turnpike R-O-W (hereafter referred to as the R-O-W) is located approximately 150 feet northwest of the intersection of North Wickham Avenue and Wiley Street in Princeton, Mercer County, West Virginia. For purposes of this FR, the Site consists of (1) the R-O-W (approximately 50 ft wide by 300 feet long), and (2) a small overwash area (approximately 30 feet wide by 50 feet long) located on NSRC's property formerly leased to S.S. Belcher (such leased property referred to herein as the S.S. Belcher property), **Map 2 in Appendix A** depicts the Site for purposes of this FR.

NSRC owns Parcel Number 9 in Princeton, Mercer County, West Virginia, which extends southwestward to the centerline of the former R-O-W. Land use in the vicinity of the Site is residential to the north, east and south and is vacant and/or industrial to the west. The Site and surrounding areas are serviced by public water.

Bedrock underlying the Site consists of early Paleozoic, Mississippian sandstone and conglomerate of the Mauch Chunk group Princeton Formation. The Princeton Formation is a distinctive 60-foot thick coarse conglomerate that grades into sandstone.

## **1.2 SITE HISTORY**

From May 10, 1937 until August 18, 1997, a predecessor of NSRC, Norfolk and Western Railway Company, leased the property to the northwest of the R-O-W to S.S. Belcher. Since the mid 1990s, NSRC voluntarily completed significant assessment and remedial activities at the S.S. Belcher property adjacent to the Site. The report history is as follows:

- **August 27, 1998:** *Soil Site Lead Sampling Report* completed for the S.S. Belcher property by Beacon Environmental Services (BES) on behalf of S.S. Belcher;
- **October 2, 1998:** *Tank Closure Report* completed for the S.S. Belcher property by Bio-Tech Environmental Services, Inc. (Bio-Tech) on behalf of NSRC;
- **July 6, 1999:** *Soil Characterization and Ground Water Sampling Plan* completed for the S.S. Belcher property by MM&A on behalf of NSRC;
- **December 1999:** *Soil Characterization and Ground Water Report for the S.S. Belcher Site to Determine Lead Impacts* completed by MM&A on behalf of NSRC;
- **March 9, 2000:** *Old Athens Turnpike Site (East of S.S. Belcher Site) Lead Contaminated Soil Removal* completed by MM&A on behalf of NSRC;
- **May 10, 2000:** *Excavation Screening, Confirmation Sampling and Reporting for Soil Removal* completed for the S.S. Belcher property by Bio-Tech on behalf of NSRC; and
- **July 27, 2000:** *Report on Remediation* completed for the S.S. Belcher property by Bio-Tech on behalf of NSRC.

Remediation work was completed at the former S.S. Belcher property to the satisfaction of USEPA and the West Virginia Department of Environmental Protection (WVDEP). Prior to 2009, NSRC is aware of no remedial activities conducted on the Site.

## **2.0 SITE SAFETY AND ADMINISTRATION**

### ***2.1 HEALTH AND SAFETY PLAN***

In accordance with Paragraph 8.3(i) of the Settlement Agreement, during May 2009, MM&A prepared a site-specific Health and Safety Plan (HASP) in accordance with 29 Code of Federal Regulations (CFR) 1910.120. The HASP provided guidance for proper decontamination of personnel and equipment, monitoring and control of off-site migration of hazardous substances during the performance of activities at the Site and protection of public health from exposure to hazardous substances during the conduct of activities at the Site pursuant to the Settlement Agreement. Site activities were conducted in accordance with the site-specific HASP.

### ***2.2 CONTRACTORS AND SUBCONTRACTORS***

In accordance with Paragraph 8.2 of the Settlement Agreement, the identities and qualifications of contractors, subcontractors, and supervisory personnel primarily responsible for developing the RAP were provided to US.EPA within five business days after the effective date of the Settlement Agreement, and the identities and qualifications of contractors and subcontractors retained to conduct response actions at the Site were provided to the USEPA at least five business days prior to commencement of their service. On July 9, 2009, the identities and qualifications for Lancaster Laboratories, Inc. (Lancaster Laboratories), Domermuth Environmental Service and MM&A were provided to the USEPA. Lancaster Laboratories was contracted by NSRC to conduct laboratory analyses. Domermuth Environmental Service was proposed to transport and dispose of non-hazardous soil. MM&A was contracted by NSRC as a consultant to conduct Site environmental tasks including soil sampling, environmental remediation, project reporting and other related tasks. On September 8, 2009, the identity and qualifications for MAX Environmental Technologies, Inc. (MAX Environmental) was provided to the USEPA. MAX Environmental was subcontracted to transport and dispose/recycle hazardous soil. On November 19, 2009, the identity and qualifications for Empire Salvage & Recycling, Inc. (Empire Recycling) was provided to the USEPA. Empire Recycling was subcontracted to load and transport borrow material for Site backfilling.

Contractors and subcontractors met applicable Occupational Safety and Health Administration (OSHA) requirements in accordance with 29 CFR 1910.120, and their use was approved by the USEPA. In accordance with Paragraph 6.4 of the Settlement Agreement, copies of the Settlement Agreement were provided to contractors and subcontractors prior to their service at the Site. On July 16, 2009, copies of the Settlement Agreement were provided to Lancaster Laboratories in Lancaster Pennsylvania, and MM&A in Bluefield, Virginia. On September 9, 2009, a copy of the Settlement Agreement was provided to MAX Environmental in Pittsburgh, Pennsylvania. On November 19, 2009, a copy of the Settlement Agreement was provided to Empire Recycling in Bluefield, Virginia.

### **2.3 SITE SECURITY**

On August 3, 2009, high visibility security fencing and keep out signs were installed at the Site to prevent access by persons not conducting or overseeing the response actions, to preclude interference with the performance of the response activities, and to provide for safety of the public during non-working hours (**Photograph 1, Appendix B**).

### **2.4 SUBSURFACE UTILITY CLEARANCE**

On August 3, 2009, Miss Utility of West Virginia was contacted to conduct subsurface utility survey and cleared the Site for subsurface excavation. Miss Utility Ticket Number 2150084 verified that the Site was free of underground utilities for a dig date/time of August 5, 2009 at 09:45 AM.

## **3.0 SITE ASSESSMENT**

### **3.1 DELINEATION SAMPLE COLLECTION**

The Site assessment was conducted in accordance with Paragraph 8.3 of the Settlement Agreement and the RAP. On August 3, 2009, the boundaries of the Site and a sampling grid system were surveyed and marked on the ground surface of the Site. Each 25 foot by 25 foot grid square covered 625 square feet (ft<sup>2</sup>).

On August 6, 2009, 87 soil samples were collected from 26 soil borings using direct-push methods (**Map 3, Appendix A**). The soil borings were advanced at the centers of each of the 25 foot by 25 foot grid areas in the R-O-W. Except for locations where bedrock was encountered above a depth of three feet below ground surface (b.g.s.), soil samples were collected from the 0-0.5 foot, 0.5-1.0 foot, 1-2 foot and 2-3 foot depth intervals in each boring. **Photograph 2** in **Appendix B** shows the Geoprobe<sup>®</sup> rig preparing to advance soil boring G-1.

Following soil sample collection on August 6, 2009, each depth interval (0-0.5 feet, 0.5-1.0 feet, 1-2 feet and 2-3 feet) was measured and visually inspected. Each soil sample was then placed into sample containers that were labeled and recorded on a soil analysis log and/or a laboratory chain-of-custody form. In situ XRF soil screening was not performed directly on the soil cores, since x-ray fluorescence (XRF) instruments did not arrive in working order. The soil cores were transported to the nearby MM&A soil lab in Bluefield, Virginia, where soil samples were collected from each depth interval using clean, single use, disposable sample scoops. The soil samples were stored in labeled plastic bags, packed in coolers with ice and recorded on a tracking sheet. Soil samples were held at the MM&A soil lab until they were screened, processed and analyzed. On August 19, 2009, total lead concentrations of unprepared soil samples collected on August 6, 2009 were analyzed in accordance with USEPA Method 6200 using a calibrated XRF Model XL3t 500 instrument (Serial Number 30887) and results were recorded for each depth interval sampled (**Table 1, Appendix C**). Following unprepared XRF analysis, select samples were processed by removing large rocks and organic matter (roots and etc.), drying, homogenizing, sieving, splitting and prepared for analysis in accordance with USEPA Method 6200. On August 20, 2009, prepared XRF samples collected on August 6, 2009 were analyzed for dry weight total lead concentrations using a calibrated XRF Model XL3t 500 instrument (Serial Number 30887) instrument and results were recorded for each depth interval sampled.

In accordance with the RAP, quality assurance/quality control (QA/QC) samples were analyzed at a minimum rate of 1:20 and laboratory analysis was performed by Lancaster Laboratories in Lancaster, Pennsylvania. Lancaster Laboratories is a West Virginia certified laboratory. To

evaluate the precision of XRF analysis for the 87 soil samples collected on August 6, 2009, five split soil samples (G-1B, G-4A, G-7C, G-16D and G-22A) were submitted to Lancaster Laboratories in Lancaster, Pennsylvania, for the analysis of total lead per USEPA Method 6010C. An additional split sample (G-7E) was submitted to Lancaster Laboratories for analysis as a duplicate for G-7C to evaluate the laboratory precision. Five rinse blanks (RB-1 – RB-5) that were collected from decontaminated sampling equipment and matrix spike (MS) and matrix spike duplicate samples for G-1B, were submitted to Lancaster Laboratories for analysis of total lead (**Table 2, Appendix C**). Laboratory certificate-of-analysis and chain-of-custody forms are included in **Appendix D**. QA/QC results are discussed in Section 3.3.

Following a review of analytical results from soil samples collected on August 6, 2009, additional XRF surveying and soil sampling was conducted to delineate the full extent of total lead concentrations at the Site before excavation commenced. On September 24, 2009, 12 soil samples were collected from four hand auger borings (G-27, G-29, G-33 and G-34). G-27 was located 25 feet northeast of G-25 and G-29 was located 50 feet northeast of G-25 (**Map 3, Appendix A**). G-33 was located 14.5 feet southwest of G-1 and G-34 was located 10 feet southeast of G-2. Both G-33 and G-34 were located adjacent to asphalt pavement. In-situ XRF analytical results indicated that lead impact above 400 ppm did not extend past the established grids (Grids 1 – 26). The 12 soil samples were transported to the nearby MM&A soil lab where they were screened, processed and analyzed using a calibrated XRF Model XL3t 600 instrument (Serial Number 31094) in accordance with USEPA Method 6200. Sample results are discussed in Section 3.2.

To evaluate the precision of XRF analysis for the 12 soil samples collected on September 24, 2009, one split soil sample (G-34C) was submitted to Lancaster Laboratories for the analysis of total lead per USEPA Method 6010C. An additional split sample (G-34E) was submitted to Lancaster Laboratories for analysis as a duplicate for G-34C to evaluate the laboratory precision. A rinse blank (RB-6) was collected from decontaminated sampling equipment and matrix spike (MS) and matrix spike duplicate samples for G-34C were submitted to Lancaster Laboratories

for analysis of total lead (**Table 2, Appendix C**). Laboratory certificate-of-analysis and chain-of-custody forms are included in **Appendix D**. QA/QC results are discussed in Section 3.3.

### **3.2 DELINEATION SOIL SAMPLE RESULTS**

XRF and laboratory analytical results for soil samples collected on August 6 and September 24, 2009 are presented in **Table 1 of Appendix C**. These data indicate that total lead concentrations above 400 parts per million (ppm) were present in Grids 1, 2, 3, 5, 7, 9, 11, 13, 15, 16, 17, 19, 20, 21, 23 and 25 at depths ranging from 0.0 feet to three feet b.g.s. **Maps 4 – 7 in Appendix A** show total lead concentrations at the 0 – 0.5 foot, 0.5 – 1 foot, 1 – 2 foot and 2 – 3 foot depth intervals, respectively. **Map 8 of Appendix A** shows the maximum depths of total lead concentrations above 400 ppm in soil at the Site.

### **3.3 QA/QC RESULTS FOR DELINEATION ANALYSIS**

XRF analyses for total lead were conducted in accordance with QA/QC procedures in USEPA Method 6200. Laboratory analyses for total lead were conducted in accordance with QA/QC procedures in the USEPA Region III Modifications to National Functional Guidelines (Inorganics – 4/93), as applied to SW-846 methodology. QA/QC results are summarized in **Table 2 of Appendix C**. QA/QC samples included 21 split soil samples (11 XRF splits and 10 lab splits), three matrix spike soil samples, three matrix spike duplicate soil samples and six rinse blanks. Since soil samples can not be true duplicates, duplicate soil samples are referred to as split samples. QA/QC samples were collected at a rate of 1:20 from delineation samples and at a rate of 1:10 for confirmation samples.

#### **Relative Percent Difference Calculations**

Relative percent difference (RPD) and calculations for XRF versus XRF split samples ranged from 1% to 27%. RPD calculations for laboratory versus laboratory split samples ranged from 2% to 17%. RPD calculations for XRF versus laboratory splits ranged from 1% to 51%, with the RPDs for nine out of the 10 split samples being within 18%. The only significant RPD variation occurred in sample G-7C, which had a high total lead concentration. For G-7C, the laboratory analytical result was lower than the XRF analytical result. A comparison of laboratory versus

XRF analytical results produced a correlation coefficient ( $r^2$ ) of 0.997 (**Figure 1, Appendix E**). In accordance with the RAP, since  $r^2$  for laboratory and XRF data is greater than 0.7, the XRF and laboratory data agree and the XRF data can be used for delineation purposes.

### **Data Validation**

Validation was performed on total lead analytical results for XRF and laboratory analyses performed on soil samples collected on August 6, September 24 and October 27, 2009 (October 27, 2009 data are post excavation results and are discussed below). Data validation reports are included as **Appendix E**. All total lead results were acceptable as reported with no qualifications for XRF analyses of soil samples collected on August 6, September 24, and October 27, 2009. All total lead results were acceptable as reported with no qualifications laboratory analyses of soil samples collected on August 6, 2009. Spike recoveries for soil sample G-34C and G-2w, indicate that laboratory analytical results for these two samples should be considered biased high. Except for G-34C (collected on 9/24/09) and G-2w (collected on 10/27/09), all total lead results were acceptable as reported with no qualifications laboratory analyses of soil samples collected on September 24, and October 27, 2009.

## **4.0 SITE REMEDIATION**

Site remediation was undertaken in accordance with Paragraph 8.3 of the Settlement Agreement and the RAP, such that contaminated soil and debris (e.g., battery casings) was removed to a depth of three feet where such soil and debris contained an average lead concentration of 400 parts per million (ppm) or greater. On August 25, 2009, three waste characterization composite samples (WC-A, WC-B and WC-C), each comprised of six aliquots, were collected at the Site (**Map 9, Appendix A**). Each composite soil sample was collected from an area with an estimated maximum excavation volume of approximately 300 tons (200 cubic yards). The composite soil samples were submitted to Lancaster Laboratories and analyzed using full toxicity characteristic leaching procedure (TCLP) in accordance with USEPA Method 1311/6010C/7470A, /8260B/8270C/8081/8151A, polychlorinated biphenyls (PCB) according to USEPA Method 8082, and extractable petroleum hydrocarbons according to TN EPH 12-98. All

three composite samples failed for TCLP for lead (**Table 3, Appendix C**). Laboratory certificate-of-analysis and chain-of-custody forms are included in **Appendix D**. In accordance with Item 7 of Section 2.1 of the RAP, a temporary hazardous waste generator number (WVP000003957) was obtained for the Site on September 4, 2009.

On September 4, 2009, a two gallon composite soil sample (H-1) was collected from the same locations as WC-A, WC-B and WC-C and shipped to MAX Environmental for treatability studies. MAX Environmental subsequently confirmed that soil from the Site could be treated, rendered non-hazardous and disposed properly in accordance with local, state and federal regulations at its facility (USEPA Identification Number PAD 004 835146) located at 233 Max Lane in Yukon, Pennsylvania.

**Map 9 in Appendix A** shows the planned areal extent and maximum depths of the excavation at the Site. A volume of 579 cubic yards (yd<sup>3</sup>) of lead-impacted soil was estimated.

On September 25, 2009, silt fencing was installed to prevent the migration of soil during excavation activities and the boundary of soils above 400 ppm was marked on the ground surface.

On September 28, 2009, a loading area was constructed across Grids 1, 3, 4 and 6 in the R-O-W. The loading area was underlain by six-millimeter (6-mil) polyethylene and covered with limestone gravel. Non-impacted soil removed from Grids 4 and 6 was stockpiled and covered by 6-mil polyethylene on-site for later use as backfill to restore the same area from which it was removed.

On September 30, 2009 excavation of lead-impacted soil from Grids 23 and 25 began. Air monitoring was conducted in accordance with the HASP (**Photograph 3, Appendix B**). Lead-impacted soil and debris (battery casings) was excavated using a mini-excavator and was moved using a skid loader (**Photographs 4 - 6, Appendix B**). Excavated lead-impacted soil was loaded into MAX Environmental trucks using a front end loader or excavator (**Photographs 8 and 18,**

**Appendix B**). Soil and debris in excess of the cleanup goal in close vicinity of large tree roots or boulders was removed using shovels and trowels (**Photographs 9 - 10, Appendix B**). Minor amounts of soil and debris in excess of the cleanup goal very close to large tree roots or boulders that could not be effectively removed was later covered with clean material during backfilling. As needed during the excavation process, in situ screening of soil was conducted using a hand held XRF instrument to determine whether total lead concentrations above 400 ppm in soil had been removed (**Photographs 11 - 13, Appendix B**).

MM&A excavated and loaded hazardous, lead-impacted soil and debris for off-site transportation and proper disposal at MAX Environmental until October 19, 2009 (**Photographs 8 and 18, Appendix B**). Machinery that possibly contacted lead-impacted soil was decontaminated by sweeping to remove any remaining particulate matter (**Photograph 19, Appendix B**). The tires or treads of equipment exiting the Site were scanned using a hand held XRF to ensure that decontamination procedures effectively removed total lead concentration to levels below the cleanup goal.

Between September 30 and October 19, 2009, 527.77 tons of lead-impacted soil and debris including battery casings were excavated, loaded and transported to the MAX Environmental facility (USEPA Identification Number PAD 004 835146) at 233 Max Lane in Yukon, Pennsylvania. Max Environmental treated the soil and debris, rendering it non-hazardous and disposed of it properly in accordance with local, state and federal regulations at its Yukon, Pennsylvania facility. Copies of manifests and Certificates of Treatment and Disposal are provided as **Appendix F**.

#### **4.1 CONFIRMATORY SOIL SAMPLE COLLECTION**

On October 26, 2009, MM&A resurveyed grid corners and centers and on October 27, 2009, collected post-excavation confirmatory soil samples from the excavation. In situ XRF screening of the excavation floor was conducted at the center and nodes of each 625 ft<sup>2</sup> grid square. One soil sample was collected using single use, disposable scoops from the 0 – 0.5 foot depth interval below the excavation floor at the location having the highest in situ screening reading within

each 625 ft<sup>2</sup> grid square (**Map 1, Appendix A**). The soil samples were collected into labeled plastic bags, packed in coolers with ice and recorded on a soil analysis log or chain-of-custody form and transported to the nearby MM&A soil lab. On October 28, 2009, lead concentrations of unprepared and prepared soil samples collected on October 27, 2009 were analyzed in accordance with USEPA Method 6200 using a calibrated XRF Model XL3t 600 instrument (Serial Number 31094) and results were recorded for each sample (**Table 1, Appendix C**). Sample processing consisted of removing large rocks and organic matter (roots and etc.), drying, homogenizing, sieving, splitting and preparing for analysis in accordance with USEPA Method 6200. The prepared soil samples were analyzed for dry weight total lead concentrations using a calibrated XRF Model XL3t 600 instrument (Serial Number 31094) and results were recorded for each depth interval sampled.

In accordance with the RAP, three post-excavation confirmatory soil samples (G-9n, G-11w and G-13e) having XRF analytical results within 60 percent of the cleanup goal of 400 ppm ( $\geq 240$  ppm) were submitted to Lancaster Laboratories for analysis of total lead in accordance with USEPA Method 6010C. More than 10 percent (1:10) of the prepared XRF confirmation samples were submitted for laboratory analysis of total lead according to USEPA Method 6010C. In order to evaluate the precision of XRF analysis for the 14 soil samples collected on October 27, 2009, two split soil samples (G-9n and G-11w) were submitted to Lancaster Laboratories for the analysis of total lead per USEPA Method 6010C. Additionally, split sample (G-11p) was submitted to Lancaster Laboratories for analysis as a duplicate for G-11w to evaluate the laboratory precision. Since Lancaster Laboratories was not aware that a split had been submitted, a laboratory split sample (G-2wDUP) was analyzed for comparison with the MS/MSD samples for G-2w. Since no reusable sample equipment was used during the collection process, rinse blanks were not required. MS and MSD samples for G-2w were submitted to Lancaster Laboratories for analysis of total lead (**Table 2, Appendix C**). Laboratory certificate-of-analysis and chain-of-custody forms are included in **Appendix D**. QA/QC results are discussed in Section 3.3.

#### **4.2 CONFIRMATORY SOIL ANALYTICAL RESULTS**

The average dry weight XRF total lead concentration calculated from the prepared post-excavation confirmation soil samples collected on October 27, 2009 was 123 ppm. Since the average total lead post-excavation concentration of 123 ppm is less than Site cleanup goal of 400 ppm, a fabric filter or liner was not required and the excavation could be backfilled using clean material.

### **5.0 SITE RESTORATION**

#### **5.1 BACKFILL MATERIAL**

On July 22, 2009, soil samples were collected from two possible borrow material locations, the Green Valley Road borrow site and Athens Road borrow site (**Photograph 20, Appendix B**). Both borrow locations had no known history of residential, commercial or industrial use. The Green Valley borrow material is located immediately east of State Route 19 at approximately 37° 20' 2.65" North Latitude and 81° 7' 33.92" West Longitude. The Athens Road borrow site is east of Exit 17 on I-77 at approximately 37° 25' 21.39" North Latitude and 81° 3' 38.83" West Longitude. Borrow materials at both locations are comprised of silty clay and clayey silt. Five point composite soil samples were collected from each 300 tons of possible borrow material. The composite soil samples were submitted to Lancaster Laboratories for analyses of target compound list (TCL) volatile organic compounds (VOCs) per USEPA Method 8260B, PCBs per USEPA Method 8082, total petroleum hydrocarbons (TPH)-diesel range organics (DRO)/oil range organics (ORO) in accordance with USEPA Method 8015B, TCL semi-volatile organic compounds (SVOCs) per USEPA 8270C, organochloride pesticides per USEPA Method 8081A, chlorinated herbicides per USEPA Method 8151A, target analyte list (TAL) metals per USEPA Methods 6010C/7470A, pH per USEPA Method 9045C Modified, ammonia nitrogen per USEPA Method 4500 NH3 B-C Modified and phosphorous per USEPA Method 365.1. VOC samples were collected using Terracore<sup>®</sup> samplers in accordance with USEPA Method 5035.

Analytical results from the Athens Road borrow samples indicated a TPH-ORO concentration of 130 ppm in sample A-1. Analytical results from Area 2 of the Athens Road borrow site (sample A-2) indicated that TCL VOCs, PCBs, TPH-DRO/ORO, TCL SVOCs, organochloride

pesticides, chlorinated herbicides, and TAL metals were within acceptable ranges for fill material. Since only 300 tons of material could be obtained from Area 2, it was determined that other borrow sites would need to be used. Analytical results from the Green Valley borrow samples indicated that sufficient borrow material was present. However, the borrow material was not available from that borrow site when Site excavation was completed.

On November 3, 2009, MM&A collected three composite soil samples at the Cherry Hollow borrow site located on the north side of Cherry Hollow Road, approximately 0.25 mile east of Sandy Lick Road in Mercer County, West Virginia. Borrow materials at the Cherry Hollow borrow site were comprised of silty clay and clayey silt. The Cherry Hollow borrow locations had no known history of residential, commercial or industrial use. Five point composite soil samples were collected from each 300 tons of possible borrow material. The composite soil samples were submitted to Lancaster Laboratories for analyses of TCL VOCs per USEPA Method 8260B, PCB per USEPA Method 8082, TPH-DRO/ORO in accordance with USEPA Method 8015B, TCL SVOCs per USEPA 8270C, organochloride pesticides per USEPA Method 8081A, chlorinated herbicides per USEPA Method 8151A, TAL metals per USEPA Methods 6010C/7470A, pH per USEPA Method 9045C Modified, ammonia nitrogen per USEPA Method 4500 NH<sub>3</sub> B-C Modified and phosphorous per USEPA Method 365.1. VOC samples were collected using Terracore<sup>®</sup> samplers in accordance with USEPA Method 5035.

Analytical results for soil samples collected from the Cherry Hollow borrow site were evaluated and TCL VOCs, PCBs, TPH-DRO/ORO, TCL SVOCs, organochloride pesticides, chlorinated herbicides, and TAL metals were within acceptable ranges for fill material. On November 16, 2009, the USEPA approved the use of borrow material from the Cherry Hollow borrow site for backfill in the Site excavation. Since only 600 tons or less (400 yd<sup>3</sup>) of borrow material were needed to backfill the Site, only materials from Cherry Hollow borrow Areas 2 and 3 were used as backfill. Analytical results for all borrow sites are included in **Appendix D**.

Due to severe precipitation events, it was not possible to acquire soil material from the Cherry Hollow borrow site. On December 7, 2009, the USEPA agreed that it would be acceptable to use

limestone gravel to backfill the lower parts of the excavation and backfill the remaining excavation to grade using approximately 300 tons of borrow material from Area 2 of the Athens Road borrow site.

A review of agricultural parameters in the Athens Road borrow material including pH, metals, ammonia nitrogen and phosphorous indicated that the 50 pounds of lime and 50 pounds of 10-20-10 fertilizer prescribed in the RAP should be sufficient to support growth of grasses at the 0.2-acre Site. No additional fertilization requirements are needed.

## ***5.2 BACKFILLING EXCAVATED AREA***

On December 8 - 9, 2009, limestone gravel from the Pounding Mill Quarries Mercer County plant near Princeton, West Virginia was used to backfill the lower parts of the Site excavation. The stone was applied in approximately six-inch thick lifts using a bulldozer and skid steer loader (**Photograph 21, Appendix B**). On December 10, 2009, the remainder of the Site excavation was backfilled the using soil from Area 2 of the Athens Road borrow site. Soil backfill material was also applied in approximately six-inch thick lifts using the same equipment that was used to apply stone (**Photograph 22, Appendix B**). Each lift was compacted comparable to surrounding soil using the loading equipment.

## ***5.3 SITE SURFACE RESTORATION***

Following the completion of backfilling with clean material, MM&A prepared the approximately 0.2-acre Site surface and planted ground cover on December 11, 2009. The ground cover was comprised of a combination of native and domesticated, non-competitive, non-invasive, cool and warm climate grasses and legume species purchased locally from Southern States Cooperative. Ground cover consisted of 2.5 pounds of orchard grass, 2.5 pounds of creeping red fescue, 1.25 pounds of perennial ryegrass, 1.5 pounds of birdsfoot trefoil, 0.25 pounds of white clover, 6.5 pounds of annual ryegrass and 4.0 pounds of cereal rye. The cereal rye was substituted for foxtail millet so that ground cover will grow more quickly during the winter season. Following the application of seeds, approximately 50 pounds of agricultural lime and 50 pounds of 10-20-

10 fertilizer was applied. Following the application of fertilizer, the Site surface was covered with mulch comprised of approximately 0.5 ton of hay (**Photographs 23 – 26, Appendix B**).

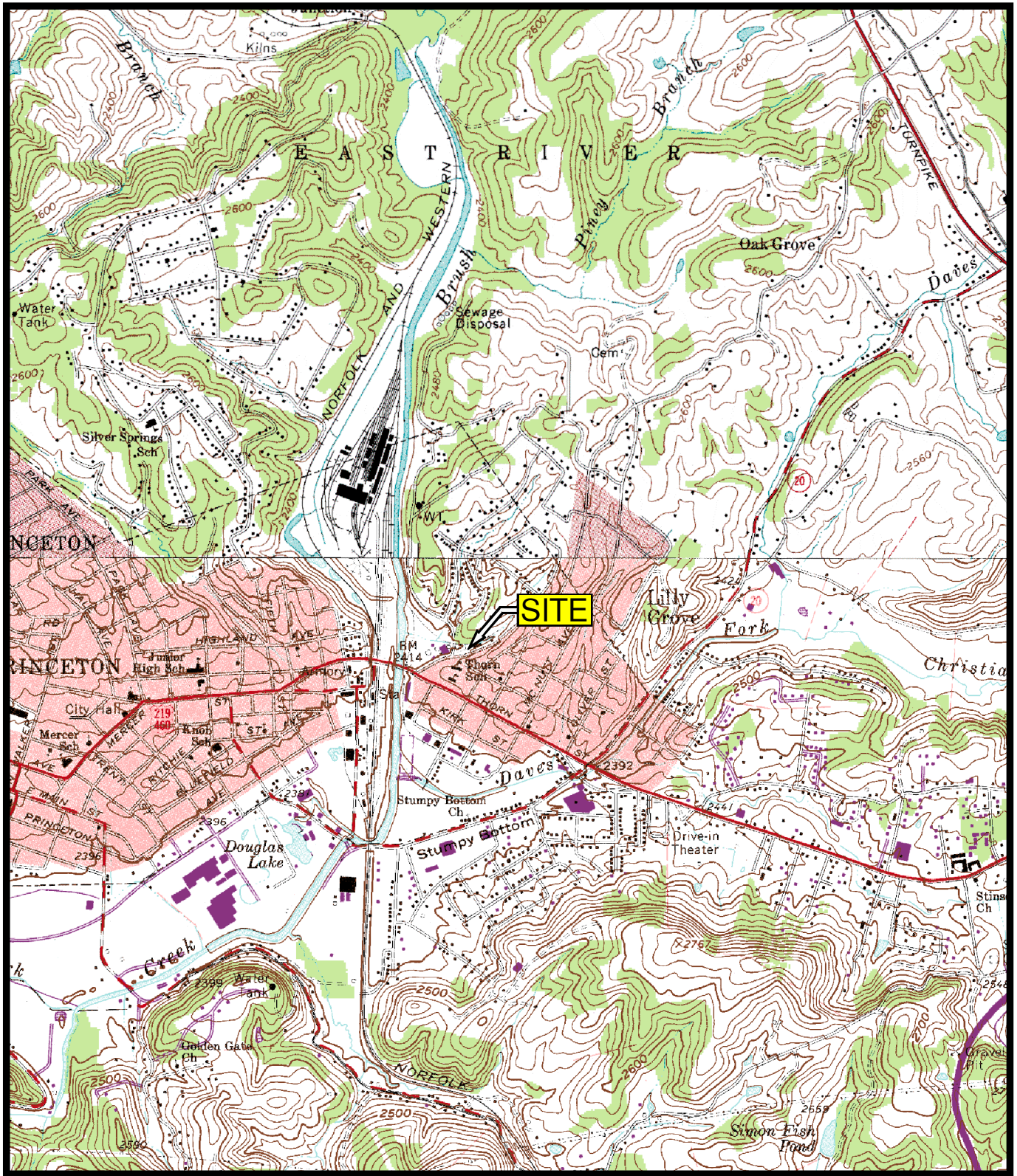
## 6.0 CONCLUSIONS AND RECOMMENDATIONS

This FR documents the successful completion of all response actions specified in Section 8.3 of the Settlement Agreement and the RAP as described below:

1. NSRC provided security sufficient to preclude interference with the performance of the response activities and provided safety for the public during non-working hours, by preventing access to the Site by persons not conducting or overseeing the response actions required in the SA and by securing the hazardous substances from the public using covers and visible fencing until the contaminated soil and debris were removed.
2. NSRC installed and maintained temporary erosion and sedimentation controls to minimize the potential for migration of contaminated soil from the Site.
3. NSRC identified all areas of the Site which contained soil contaminated with lead in excess of 400 ppm between the native ground surface and up to three feet below the surface.
4. NSRC removed contaminated soil and debris (e.g., battery casings) from the Site, such that the average lead concentration in soils throughout the Site is less than 400 ppm, and soil or debris which could not be effectively removed (e.g., at/around large trees) are suitable covered with uncontaminated soil. The excavation of soil did not exceed the maximum depth of three feet below ground surface.
5. NSRC conducted post-excavation sampling to confirm that no soil remaining at the Site exceed the cleanup standard specified in subparagraph (d) of Section 8.3 of the SA.
6. Placement of a barrier, such as filter fabric or liner, was not required since the average total lead concentration calculated from post-excavation sampling (123 ppm) did not exceed the cleanup standard specified in subparagraph (d) of Section 8.3 of the SA.
7. NSRC backfilled excavated areas and installed permanent erosion controls (e.g., vegetative cover), to ensure that remaining soils do not erode from the Site.
8. NSRC disposed of, off-site, all soil and debris excavated pursuant to subparagraph (d) of Section 8.3 of the SA in accordance with the requirements of Section 8.12 of the SA.

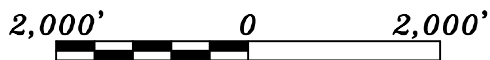
9. NSRC provided site specific health and safety measures in accordance with subsection (i) of Section 8.3 of the SA, including preparation and implementation of a HASP for actions performed at the Site, to protect the health and safety of workers, other personnel and the public from hazardous substances and work-related health and safety hazards during the performance of response actions.
10. NSRC obtained a Hazardous Waste Generator Identification Number (WVP000003957).
11. NSRC developed and followed an expeditious schedule for implementation of the response actions at the Site.
12. NSRC, consistent with Section 300.415 (l) of the NCP, 40 C.F.R. § 300.415 (l); and the USEPA's "Policy on Management of Post Removal Site Control", (OSWER Directive 9360.2-02 (December 3, 1989)), will conduct post-removal inspections semi-annually for a period of one year following the completion of site restoration activities to ensure that erosion or other actions do not disturb the vegetative cover. Post-removal site inspections will consist of recording site surface conditions including vegetation, any evidence of erosion or any signs of man-made disturbance of the surface cover. Site inspection notes will be recorded in a site-specific log book. If the vegetative cover is disturbed, repairs will be completed promptly and the semi-annual inspections will continue for a period of one year following the date of the last repairs.

*Appendix A*  
*Maps*



**OLD ATHENS TURNPIKE SITE – PRINCETON, MERCER COUNTY, WEST VIRGINIA**  
**PORTIONS OF USGS 7.5' PRINCETON AND ATHENS, WV. QUADRANGLES**

Prepared by:



SCALE 1:24,000

VICINITY MAP

MAP 1



QUADRANGLE LOCATION

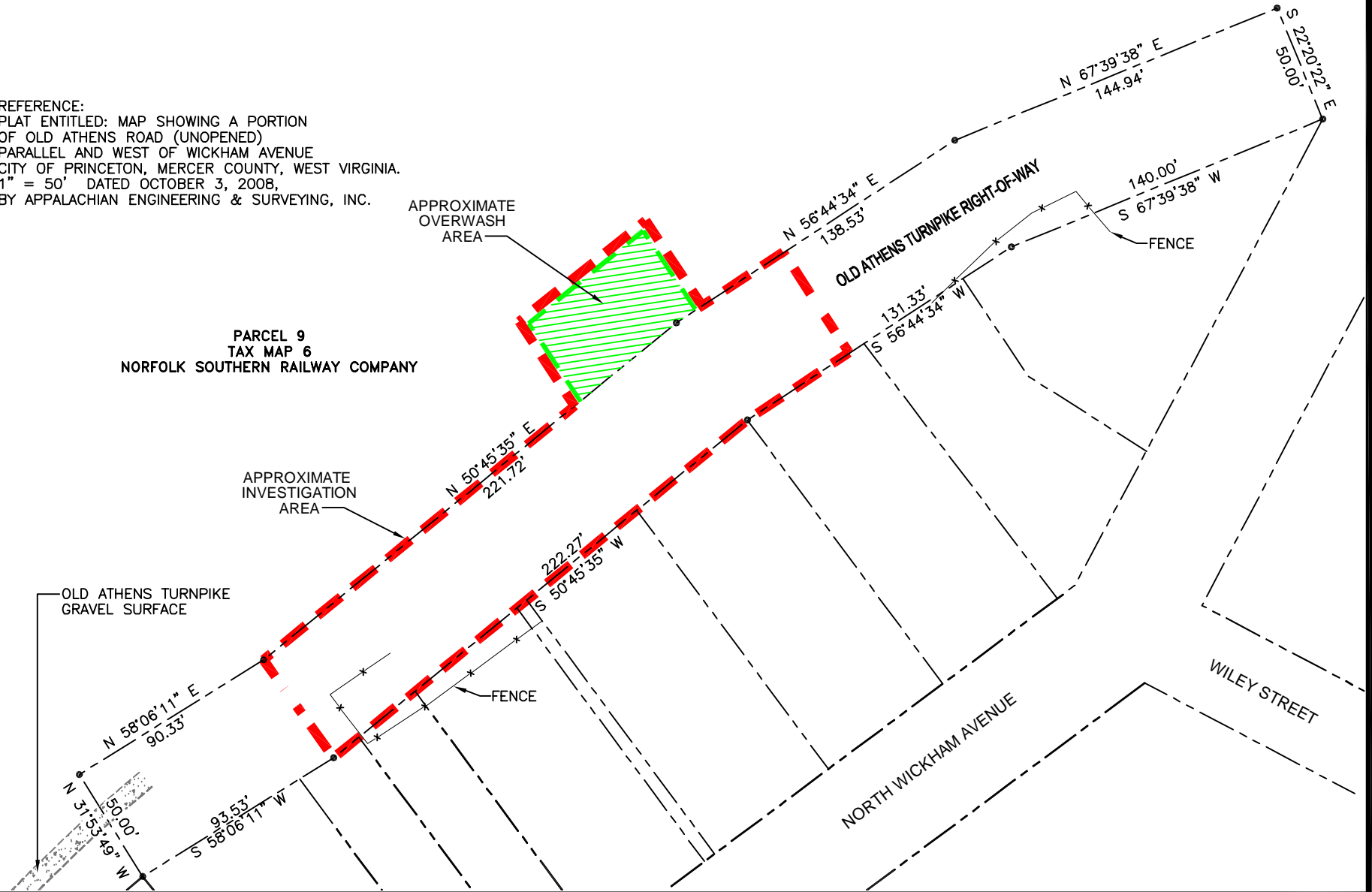
Prepared for:





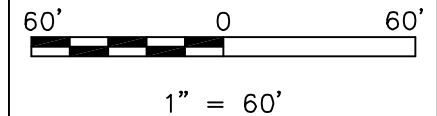
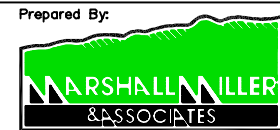
REFERENCE:  
PLAT ENTITLED: MAP SHOWING A PORTION  
OF OLD ATHENS ROAD (UNOPENED)  
PARALLEL AND WEST OF WICKHAM AVENUE  
CITY OF PRINCETON, MERCER COUNTY, WEST VIRGINIA.  
1" = 50' DATED OCTOBER 3, 2008,  
BY APPALACHIAN ENGINEERING & SURVEYING, INC.

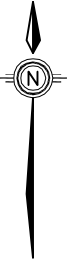
PARCEL 9  
TAX MAP 6  
NORFOLK SOUTHERN RAILWAY COMPANY



MAP 2 – SITE MAP  
OLD ATHENS TURNPIKE  
PRINCETON, WEST VIRGINIA

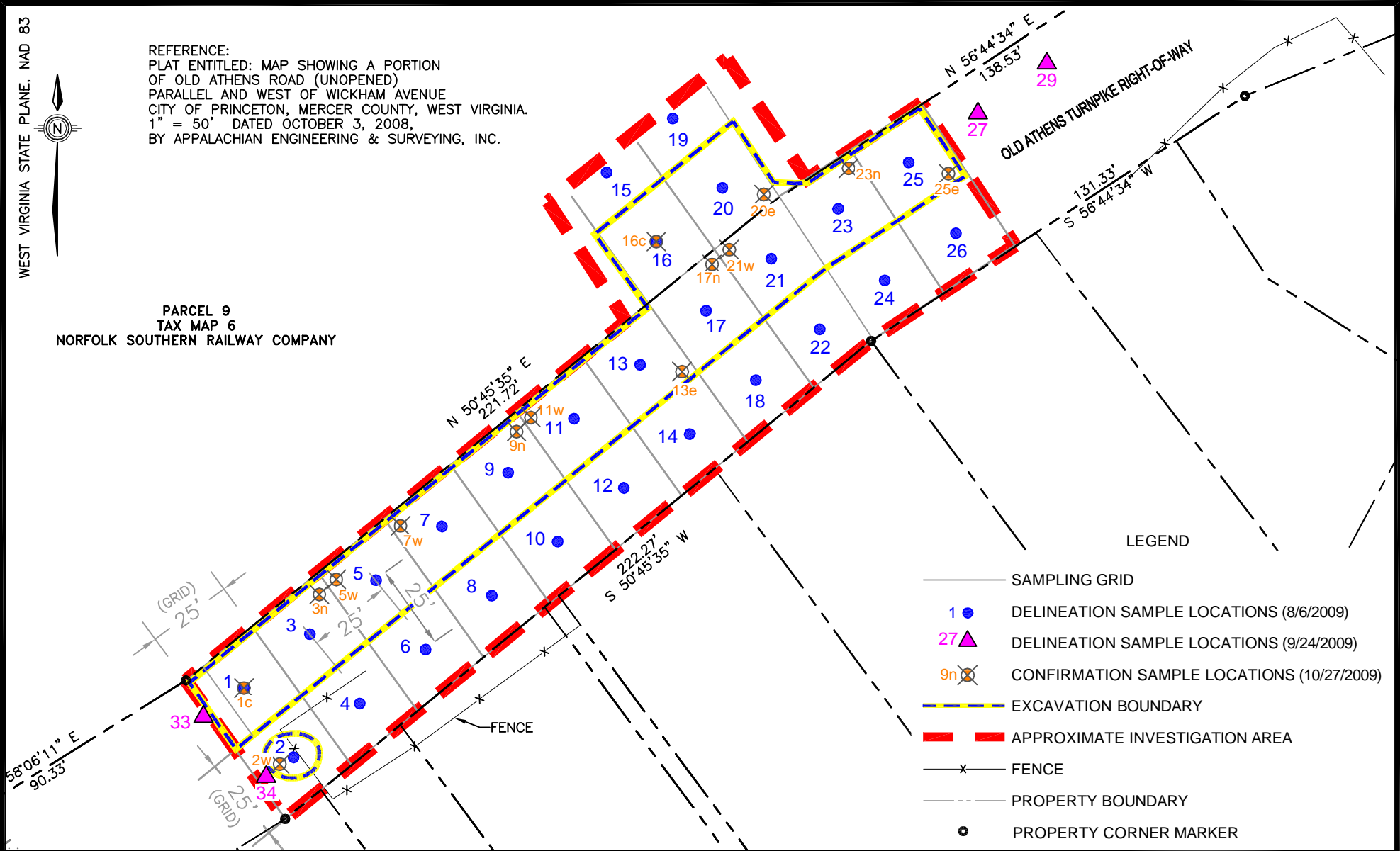
DATE:	JUNE 2009
SCALE:	1"=60'
DRAWN:	DJD
CHECKED:	GR
PROJ. #:	NS1691





REFERENCE:  
 PLAT ENTITLED: MAP SHOWING A PORTION  
 OF OLD ATHENS ROAD (UNOPENED)  
 PARALLEL AND WEST OF WICKHAM AVENUE  
 CITY OF PRINCETON, MERCER COUNTY, WEST VIRGINIA.  
 1" = 50' DATED OCTOBER 3, 2008,  
 BY APPALACHIAN ENGINEERING & SURVEYING, INC.

PARCEL 9  
 TAX MAP 6  
 NORFOLK SOUTHERN RAILWAY COMPANY

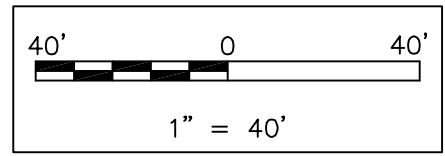


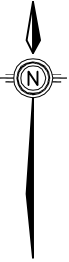
LEGEND

- SAMPLING GRID
- 1 ● DELINEATION SAMPLE LOCATIONS (8/6/2009)
- 27 ▲ DELINEATION SAMPLE LOCATIONS (9/24/2009)
- 9n ⊗ CONFIRMATION SAMPLE LOCATIONS (10/27/2009)
- — — EXCAVATION BOUNDARY
- — — APPROXIMATE INVESTIGATION AREA
- x — FENCE
- — — PROPERTY BOUNDARY
- PROPERTY CORNER MARKER

MAP 3 – EXCAVATION AND SAMPLING LOCATIONS  
 OLD ATHENS TURNPIKE  
 PRINCETON, WEST VIRGINIA

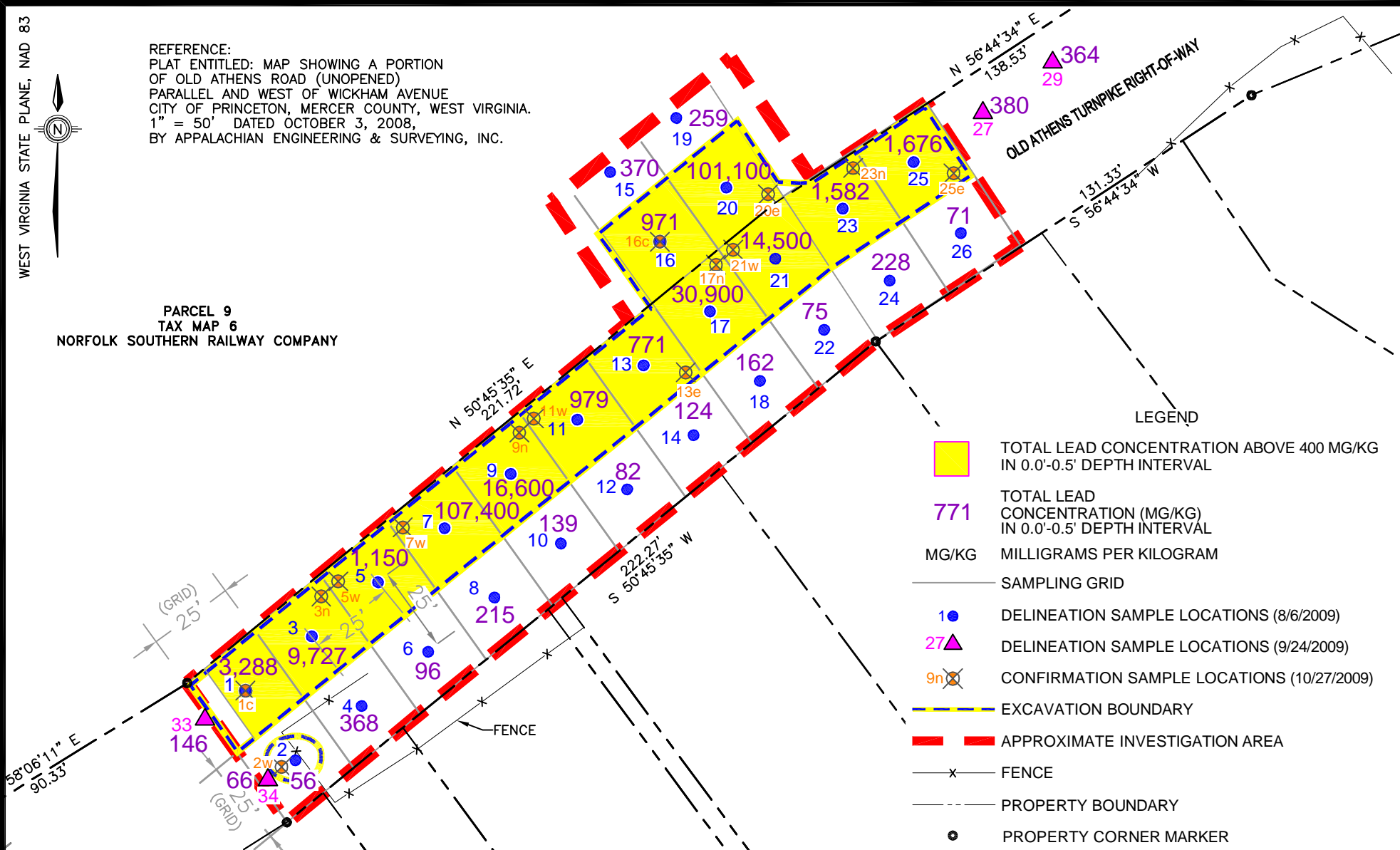
DATE: DEC. 2009  
 SCALE: 1" = 40'  
 DRAWN: DJD  
 CHECKED: GR  
 PROJ. #: NS1691





REFERENCE:  
 PLAT ENTITLED: MAP SHOWING A PORTION  
 OF OLD ATHENS ROAD (UNOPENED)  
 PARALLEL AND WEST OF WICKHAM AVENUE  
 CITY OF PRINCETON, MERCER COUNTY, WEST VIRGINIA.  
 1" = 50' DATED OCTOBER 3, 2008,  
 BY APPALACHIAN ENGINEERING & SURVEYING, INC.

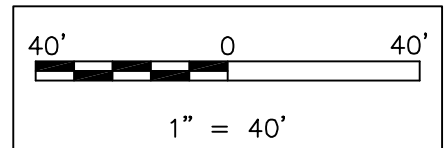
PARCEL 9  
 TAX MAP 6  
 NORFOLK SOUTHERN RAILWAY COMPANY



- LEGEND
- TOTAL LEAD CONCENTRATION ABOVE 400 MG/KG IN 0.0'-0.5' DEPTH INTERVAL
  - 771 TOTAL LEAD CONCENTRATION (MG/KG) IN 0.0'-0.5' DEPTH INTERVAL
  - MG/KG MILLIGRAMS PER KILOGRAM
  - SAMPLING GRID
  - 1 ● DELINEATION SAMPLE LOCATIONS (8/6/2009)
  - 27 ▲ DELINEATION SAMPLE LOCATIONS (9/24/2009)
  - 9n ⊗ CONFIRMATION SAMPLE LOCATIONS (10/27/2009)
  - — — EXCAVATION BOUNDARY
  - — — APPROXIMATE INVESTIGATION AREA
  - x — FENCE
  - · — PROPERTY BOUNDARY
  - PROPERTY CORNER MARKER

MAP 4 – TOTAL LEAD CONCENTRATIONS IN  
 0.0'–0.5' DEPTH INTERVAL (8/6/09 & 9/24/09)  
 OLD ATHENS TURNPIKE  
 PRINCETON, WEST VIRGINIA

DATE: DEC. 2009  
 SCALE: 1" = 40'  
 DRAWN: DJD  
 CHECKED: GR  
 PROJ. #: NS1691





REFERENCE:  
 PLAT ENTITLED: MAP SHOWING A PORTION  
 OF OLD ATHENS ROAD (UNOPENED)  
 PARALLEL AND WEST OF WICKHAM AVENUE  
 CITY OF PRINCETON, MERCER COUNTY, WEST VIRGINIA.  
 1" = 50' DATED OCTOBER 3, 2008,  
 BY APPALACHIAN ENGINEERING & SURVEYING, INC.

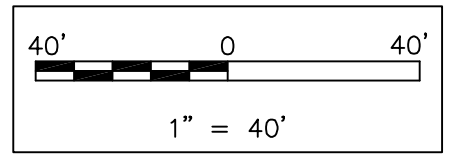
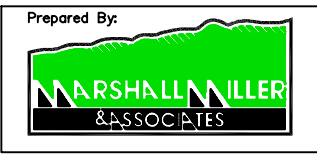
PARCEL 9  
 TAX MAP 6  
 NORFOLK SOUTHERN RAILWAY COMPANY

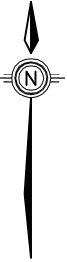


- LEGEND
- TOTAL LEAD CONCENTRATION ABOVE 400 MG/KG IN 0.5'-1.0' DEPTH INTERVAL
  - 162 TOTAL LEAD CONCENTRATION (MG/KG) IN 0.5'-1.0' DEPTH INTERVAL
  - ROCK BEDROCK WAS ENCOUNTERED WITHIN THE SPECIFIED SAMPLING INTERVAL OR SHALLOWER
  - MG/KG MILLIGRAMS PER KILOGRAM
  - SAMPLING GRID
  - 1 ● DELINEATION SAMPLE LOCATIONS (8/6/2009)
  - 27 ▲ DELINEATION SAMPLE LOCATIONS (9/24/2009)
  - 9n ⊗ CONFIRMATION SAMPLE LOCATIONS (10/27/2009)
  - EXCAVATION BOUNDARY
  - - - APPROXIMATE INVESTIGATION AREA
  - x FENCE
  - - - PROPERTY BOUNDARY
  - PROPERTY CORNER MARKER

MAP 5 – TOTAL LEAD CONCENTRATIONS IN 0.5'–1.0' DEPTH INTERVAL (8/6/09 & 9/24/09)  
 OLD ATHENS TURNPIKE  
 PRINCETON, WEST VIRGINIA

DATE: DEC. 2009  
 SCALE: 1" = 40'  
 DRAWN: DJD  
 CHECKED: GR  
 PROJ. #: NS1691





REFERENCE:  
 PLAT ENTITLED: MAP SHOWING A PORTION  
 OF OLD ATHENS ROAD (UNOPENED)  
 PARALLEL AND WEST OF WICKHAM AVENUE  
 CITY OF PRINCETON, MERCER COUNTY, WEST VIRGINIA.  
 1" = 50' DATED OCTOBER 3, 2008,  
 BY APPALACHIAN ENGINEERING & SURVEYING, INC.

PARCEL 9  
 TAX MAP 6  
 NORFOLK SOUTHERN RAILWAY COMPANY

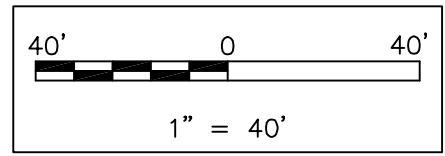


LEGEND

- TOTAL LEAD CONCENTRATION ABOVE 400 MG/KG IN 1.0'-2.0' DEPTH INTERVAL
- 553 TOTAL LEAD CONCENTRATION (MG/KG) IN 1.0'-2.0' DEPTH INTERVAL
- ROCK BEDROCK WAS ENCOUNTERED WITHIN THE SPECIFIED SAMPLING INTERVAL OR SHALLOWER
- MG/KG MILLIGRAMS PER KILOGRAM
- SAMPLING GRID
- 1 ● DELINEATION SAMPLE LOCATIONS (8/6/2009)
- 27 ▲ DELINEATION SAMPLE LOCATIONS (9/24/2009)
- 9n ⊗ CONFIRMATION SAMPLE LOCATIONS (10/27/2009)
- - - EXCAVATION BOUNDARY
- - - APPROXIMATE INVESTIGATION AREA
- x FENCE
- - - PROPERTY BOUNDARY
- PROPERTY CORNER MARKER

MAP 6 – TOTAL LEAD CONCENTRATIONS IN 1.0'–2.0' DEPTH INTERVAL (8/6/09 & 9/24/09) OLD ATHENS TURNPIKE PRINCETON, WEST VIRGINIA

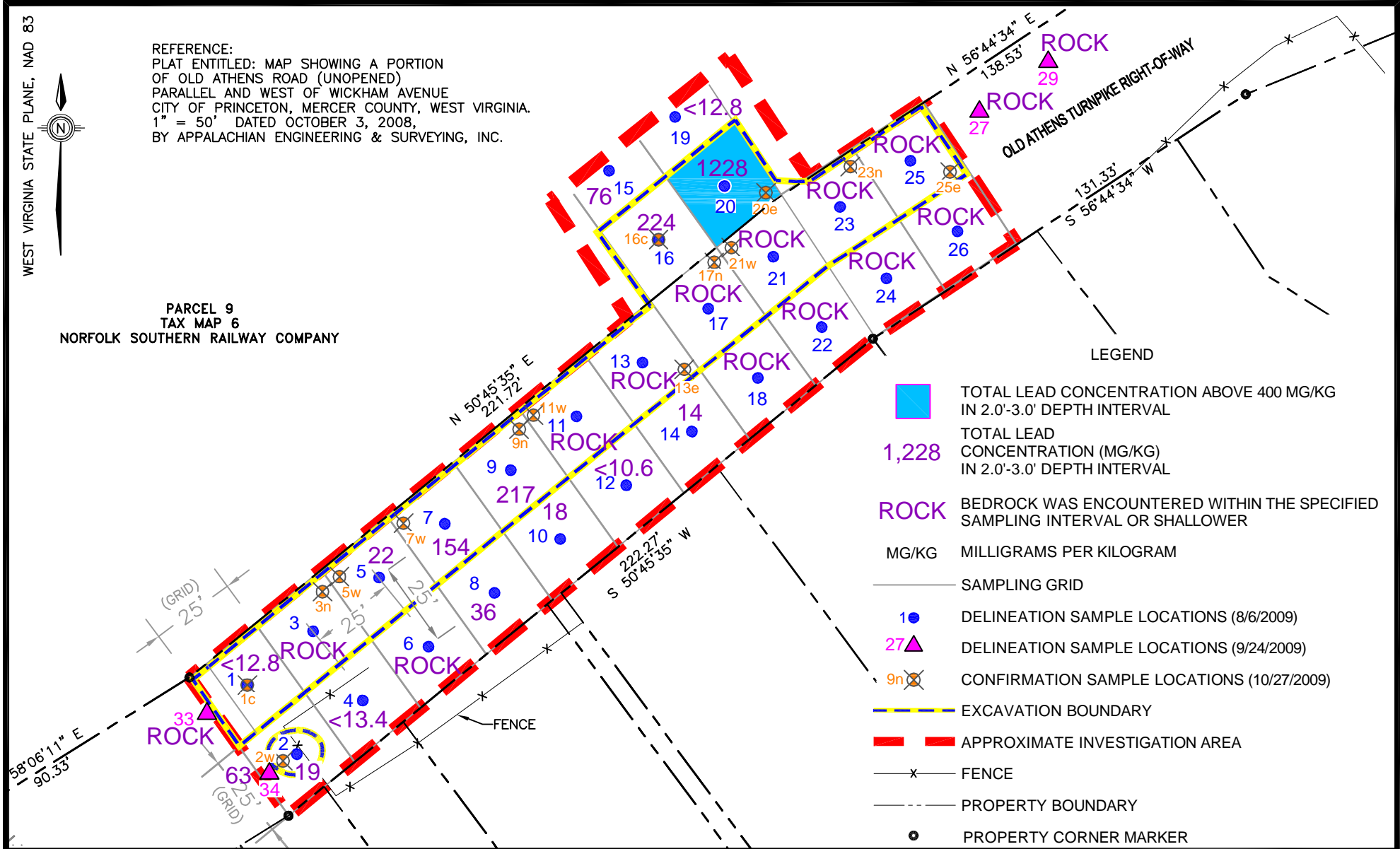
DATE: DEC. 2009  
 SCALE: 1" = 40'  
 DRAWN: DJD  
 CHECKED: GR  
 PROJ. #: NS1691





REFERENCE:  
 PLAT ENTITLED: MAP SHOWING A PORTION  
 OF OLD ATHENS ROAD (UNOPENED)  
 PARALLEL AND WEST OF WICKHAM AVENUE  
 CITY OF PRINCETON, MERCER COUNTY, WEST VIRGINIA.  
 1" = 50' DATED OCTOBER 3, 2008,  
 BY APPALACHIAN ENGINEERING & SURVEYING, INC.

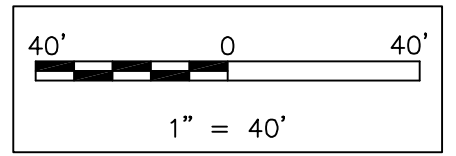
PARCEL 9  
 TAX MAP 6  
 NORFOLK SOUTHERN RAILWAY COMPANY



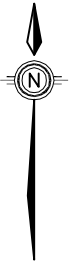
- LEGEND**
- TOTAL LEAD CONCENTRATION ABOVE 400 MG/KG IN 2.0'-3.0' DEPTH INTERVAL
  - 1,228** TOTAL LEAD CONCENTRATION (MG/KG) IN 2.0'-3.0' DEPTH INTERVAL
  - ROCK** BEDROCK WAS ENCOUNTERED WITHIN THE SPECIFIED SAMPLING INTERVAL OR SHALLOWER
  - MG/KG MILLIGRAMS PER KILOGRAM
  - SAMPLING GRID
  - 1** ● DELINEATION SAMPLE LOCATIONS (8/6/2009)
  - 27** ▲ DELINEATION SAMPLE LOCATIONS (9/24/2009)
  - 9n** ⊗ CONFIRMATION SAMPLE LOCATIONS (10/27/2009)
  - — — EXCAVATION BOUNDARY
  - — — APPROXIMATE INVESTIGATION AREA
  - x — FENCE
  - · — · — PROPERTY BOUNDARY
  - PROPERTY CORNER MARKER

MAP 7 – TOTAL LEAD CONCENTRATIONS IN 2.0'–3.0' DEPTH INTERVAL (8/6/09 & 9/24/09)  
 OLD ATHENS TURNPIKE  
 PRINCETON, WEST VIRGINIA

DATE: DEC. 2009  
 SCALE: 1" = 40'  
 DRAWN: DJD  
 CHECKED: GR  
 PROJ. #: NS1691

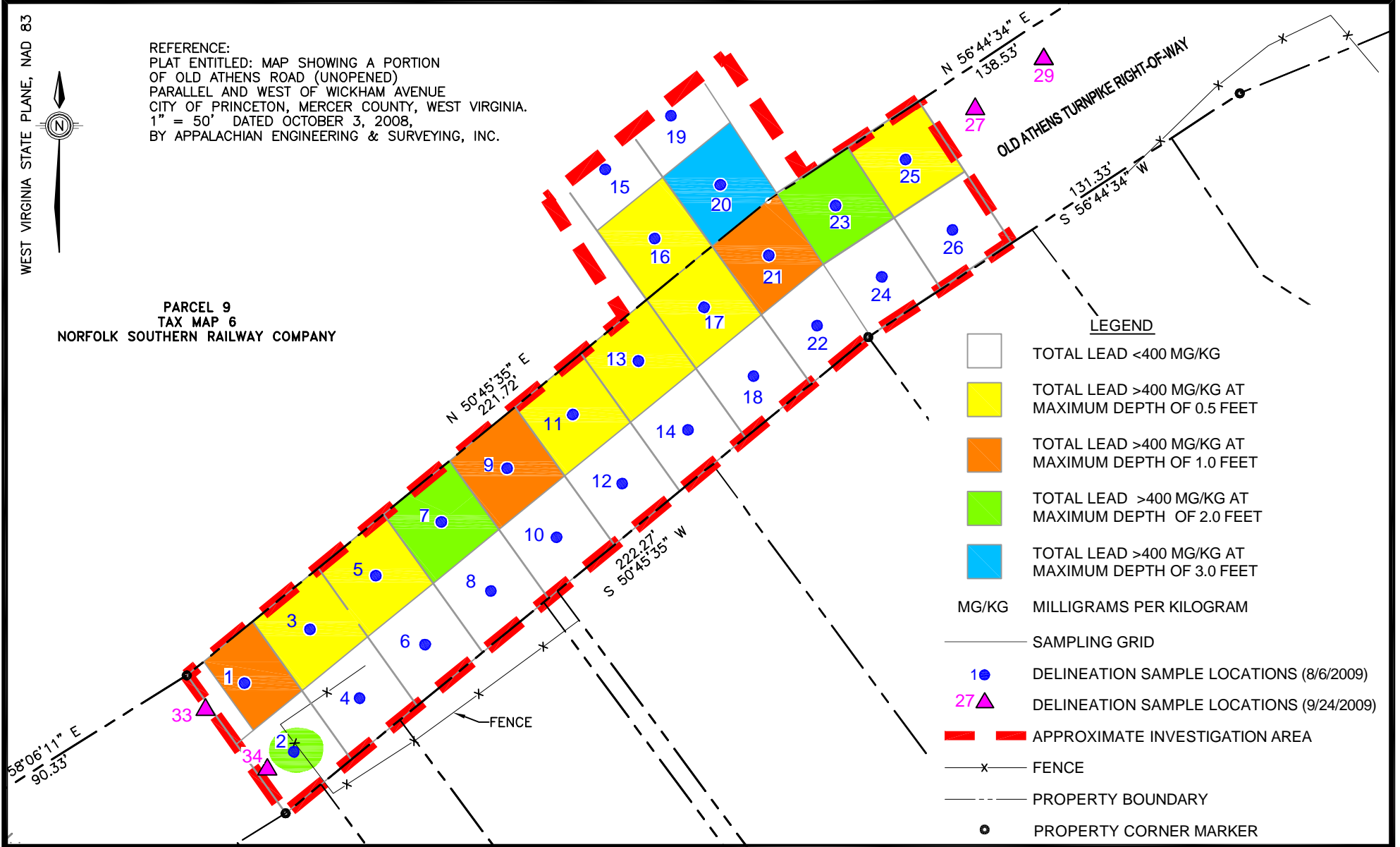


WEST VIRGINIA STATE PLANE, NAD 83



REFERENCE:  
PLAT ENTITLED: MAP SHOWING A PORTION  
OF OLD ATHENS ROAD (UNOPENED)  
PARALLEL AND WEST OF WICKHAM AVENUE  
CITY OF PRINCETON, MERCER COUNTY, WEST VIRGINIA.  
1" = 50' DATED OCTOBER 3, 2008,  
BY APPALACHIAN ENGINEERING & SURVEYING, INC.

PARCEL 9  
TAX MAP 6  
NORFOLK SOUTHERN RAILWAY COMPANY

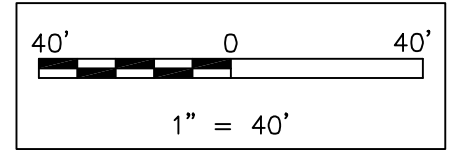


**LEGEND**

- TOTAL LEAD <400 MG/KG
- TOTAL LEAD >400 MG/KG AT MAXIMUM DEPTH OF 0.5 FEET
- TOTAL LEAD >400 MG/KG AT MAXIMUM DEPTH OF 1.0 FEET
- TOTAL LEAD >400 MG/KG AT MAXIMUM DEPTH OF 2.0 FEET
- TOTAL LEAD >400 MG/KG AT MAXIMUM DEPTH OF 3.0 FEET
- MG/KG MILLIGRAMS PER KILOGRAM
- SAMPLING GRID
- DELINEATION SAMPLE LOCATIONS (8/6/2009)
- DELINEATION SAMPLE LOCATIONS (9/24/2009)
- APPROXIMATE INVESTIGATION AREA
- FENCE
- PROPERTY BOUNDARY
- PROPERTY CORNER MARKER

MAP 8 – MAXIMUM DEPTH OF TOTAL LEAD  
CONCENTRATIONS ABOVE 400 MG/KG  
OLD ATHENS TURNPIKE  
PRINCETON, WEST VIRGINIA

DATE: DEC. 2009  
SCALE: 1"=40'  
DRAWN: DJD  
CHECKED: GR  
PROJ. #: NS1691

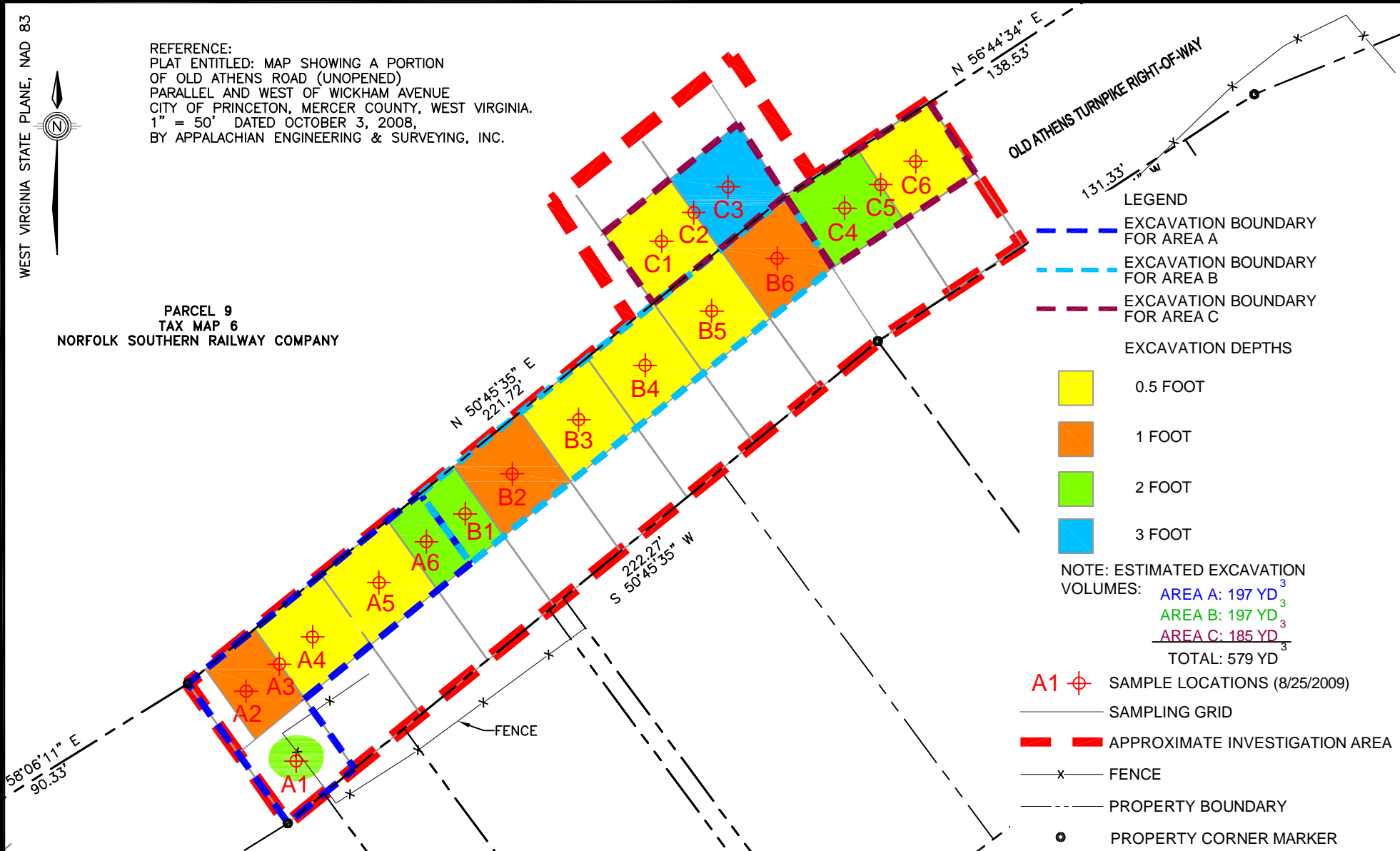


WEST VIRGINIA STATE PLANE, NAD 83



REFERENCE:  
PLAT ENTITLED: MAP SHOWING A PORTION  
OF OLD ATHENS ROAD (UNOPENED)  
PARALLEL AND WEST OF WICKHAM AVENUE  
CITY OF PRINCETON, MERCER COUNTY, WEST VIRGINIA.  
1" = 50' DATED OCTOBER 3, 2008,  
BY APPALACHIAN ENGINEERING & SURVEYING, INC.

PARCEL 9  
TAX MAP 6  
NORFOLK SOUTHERN RAILWAY COMPANY



LEGEND

- EXCAVATION BOUNDARY FOR AREA A
- EXCAVATION BOUNDARY FOR AREA B
- EXCAVATION BOUNDARY FOR AREA C

EXCAVATION DEPTHS

- 0.5 FOOT
- 1 FOOT
- 2 FOOT
- 3 FOOT

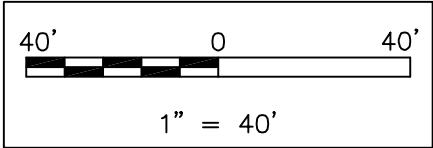
NOTE: ESTIMATED EXCAVATION VOLUMES:

- AREA A: 197 YD<sup>3</sup>
- AREA B: 197 YD<sup>3</sup>
- AREA C: 185 YD<sup>3</sup>
- TOTAL: 579 YD<sup>3</sup>**

- A1 SAMPLE LOCATIONS (8/25/2009)
- SAMPLING GRID
- APPROXIMATE INVESTIGATION AREA
- FENCE
- PROPERTY BOUNDARY
- PROPERTY CORNER MARKER

MAP 9 – WASTE CHARACTERIZATION  
SAMPLE LOCATIONS (AUGUST 25, 2009)  
OLD ATHENS TURNPIKE  
PRINCETON, WEST VIRGINIA

DATE: DEC. 2009  
SCALE: 1"=40'  
DRAWN: DJD  
CHECKED: GR  
PROJ. #: NS1691



*Appendix B*  
*Photodocumentation*



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 1**

**Date:**  
August 3, 2009

**Description:**  
Grids 1, 3 and 4  
with security  
fencing and  
surveyed grid  
corners and sample  
locations.

Northwest to  
Southeast



**PHOTO 2**

**Date:**  
August 6, 2009

**Description:**  
Direct-push drilling  
at sample location  
G-1 in Grid 1.

Southwest to  
Northeast



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 3**

**Date:**

October 2, 2009

**Description:**

Recording air monitoring readings.

South to North



**PHOTO 4**

**Date:**

October 2, 2009

**Description:**

Excavating soil in Grid 20. Note tree roots.

Southwest to  
Northeast



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 5**

**Date:**

October 2, 2009

**Description:**

Excavating soil in  
Grid 20.

West to East



**PHOTO 6**

**Date:**

October 9, 2009

**Description:**

Excavating soil in  
Grid 9.

East to West



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 7**

**Date:**

September 30, 2009

**Description:**

Loading area and contamination reduction Zone are on the western side of the Site.

Northwest to Southeast



**PHOTO 8**

**Date:**

September 30, 2009

**Description:**

Loading soil.

Northwest to Southeast



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 9**

**Date:**

September 30,  
2009

**Description:**

Grid 25. Note  
extensive  
bedrock.

West to East



**PHOTO 10**

**Date:**

September 30,  
2009

**Description:**

Grid 23 showing  
bedrock and tree.

South to North



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 11**

**Date:**  
October 6, 2009

**Description:**  
Scanning  
excavation floor  
using XRF  
instrument.

North to South



**PHOTO 12**

**Date:**  
October 6, 2009

**Description:**  
Scanning ground  
surface using XRF  
instrument.

Northeast to  
Southwest



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 13**

**Date:**

October 6, 2009

**Description:**

Scanning  
excavation wall  
using XRF  
instrument.

West to East



**PHOTO 14**

**Date:**

October 6, 2009

**Description:**

Excavation on the  
eastern side of Site.

West to East



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 15**

**Date:**

October 12, 2009

**Description:**

Grid 9. Note bedrock.

West to East



**PHOTO 16**

**Date:**

October 13, 2009

**Description:**

Excavating Grid 1 on western side of Site.

North to South



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 17**

**Date:**

October 13, 2009

**Description:**

Excavating on the western side of the Site.

East to West



**PHOTO 18**

**Date:**

October 14, 2009

**Description:**

Loading soil with excavator.

West to East



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 19**

**Date:**

October 19, 2009

**Description:**

Excavator ready for decontamination consisting of sweeping soil off of equipment.

South to North.



**PHOTO 20**

**Date:**

July 22, 2009

**Description:**

Soil sampling at Athens Road borrow site.

West to East



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 21**

**Date:**

December 8, 2009

**Description:**

Backfilling  
excavation.

West to East



**PHOTO 22**

**Date:**

December 10, 2009

**Description:**

Backfilling  
excavation.

West to East



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 23**

**Date:**

December 11, 2009

**Description:**

Surface Restoration  
Grids 1-17.

East to West



**PHOTO 24**

**Date:**

December 11, 2009

**Description:**

Surface restoration  
in Overwash Area.

North to South



**Marshall Miller & Associates, Inc.**  
**Photodocumentation**

**Client:** Norfolk Southern Railway Company

**Location:** Princeton, West Virginia

**Site Name:** Old Athens Turnpike Site

**Project Number:** NS1691

**PHOTO 25**

**Date:**

December 11, 2009

**Description:**

Surface Restoration  
Grids 23 and 25.

West to East



**PHOTO 26**

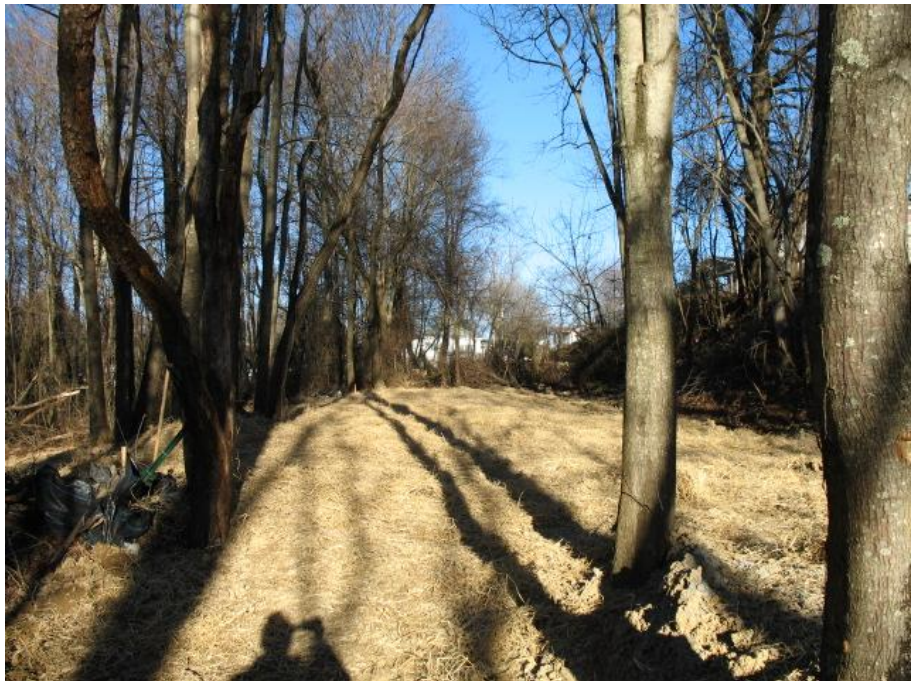
**Date:**

December 11, 2009

**Description:**

Surface Restoration  
Grids 11 - 25.

West to East



*Appendix C*  
*Tables*

**TABLE 1**  
**SOIL ANALYSIS LOG**  
**OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA**

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	In Situ Results		Prepared Results		Laboratory Results ppm	Notes
					XRF ppm	Error ppm	XRF ppm	Error +/- ppm		
G-1A	8/6/2009	1145	0-0.5	JK/GR	3308	74	3288	77	NA	none
G-1B	8/6/2009	1145	0.5-1	JK/GR	1484	16	1727	54	1550	XRF to Lab Split for G-1B
G-1E (G-1B Split)	8/6/2009	1145	0.5-1	JK/GR	1459	56	1741	55	NA	XRF to XRF Split for G-1B
G-1C	8/6/2009	1145	1-2	JK/GR	17	8	19	9	NA	none
G-1D	8/6/2009	1145	2-3	JK/GR	<11.6	NA	<12.8	NA	NA	none
G-2A	8/6/2009	1153	0-0.5	JK/GR	61	12	56	10	NA	none
G-2B	8/6/2009	1153	0.5-1	JK/GR	171	13	271	21	NA	none
G-2C	8/6/2009	1153	1-2	JK/GR	336	24	463	29	NA	none
G-2D	8/6/2009	1153	2-3	JK/GR	<10.2	NA	19	10	NA	none
G-3A	8/6/2009	1202	0-0.5	JK/GR	3506	77	9727	146	NA	none
G-3B	8/6/2009	1202	0.5-1	JK/GR	280	22	381	26	NA	none
G-4A	8/6/2009	1210	0-0.5	JK/GR	416	26	368	25	383	XRF to Lab Split for G-4A
G-4E (G-4A Split)	8/6/2009	1210	0-0.5	JK/GR	383	25	395	26	NA	XRF to XRF Split for G-4A
G-4B	8/6/2009	1210	0.5-1	JK/GR	<13.0	NA	31	11	NA	none
G-4C	8/6/2009	1210	1-2	JK/GR	<11.7	NA	16	10	NA	none
G-4D	8/6/2009	1210	2-3	JK/GR	<9.2	NA	<13.4	NA	NA	none
G-5A	8/6/2009	1218	0-0.5	JK/GR	5448	92	11500	200	NA	none
G-5B	8/6/2009	1218	0.5-1	JK/GR	82	13	112	16	NA	none
G-5C	8/6/2009	1218	1-2	JK/GR	37	11	23	10	NA	none
G-5D	8/6/2009	1218	2-3	JK/GR	<11.0	NA	22	10	NA	none
G-6A	8/6/2009	1350	0-0.5	JK/GR	53	13	96	14	NA	none
G-6B	8/6/2009	1350	0.5-1	JK/GR	42	12	55	12	NA	none
G-6C	8/6/2009	1350	1-2	JK/GR	22	10	32	11	NA	none
G-7A	8/6/2009	1225	0-0.5	JK/GR	24600	300	107400	900	NA	none
G-7B	8/6/2009	1225	0.5-1	JK/GR	2144	64	4759	114	NA	none
G-7C	8/6/2009	1225	1-2	JK/GR	6816	111	15600	200	9290	XRF to Lab Split for G-7C
G-7E (G7C Split)	8/6/2009	1225	1-2	JK/GR	7169	116	12500	200	9100	XRF-XRF/Lab-Lab Split for G-7C
G-7D	8/6/2009	1225	2-3	JK/GR	74	13	154	17	NA	none
G-8A	8/6/2009	1358	0-0.5	JK/GR	112	14	215	20	NA	none
G-8B	8/6/2009	1358	0.5-1	JK/GR	86	13	93	14	NA	none
G-8C	8/6/2009	1358	1-2	JK/GR	<9.8	NA	<11.5	NA	NA	none
G-8D	8/6/2009	1358	2-2.5	JK/GR	23	9	36	11	NA	Direct-push refusal on bedrock.
G-9A	8/6/2009	1233	0-0.5	JK/GR	7040	115	16600	200	NA	none

**TABLE 1**  
**SOIL ANALYSIS LOG**  
**OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA**

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	In Situ Results		Prepared Results		Laboratory Results ppm	Notes
					XRF ppm	Error ppm	XRF ppm	Error +/- ppm		
G-9B	8/6/2009	1233	0.5-1	JK/GR	47600	400	78300	800	NA	none
G-9C	8/6/2009	1233	1-2	JK/GR	135	17	146	18	NA	none
G-9D	8/6/2009	1233	2-3	JK/GR	93	14	217	23	NA	none
G-10A	8/6/2009	1405	0-0.5	JK/GR	58	11	139	17	NA	none
G-10B	8/6/2009	1405	0.5-1	JK/GR	34	10	202	19	NA	none
G-10C	8/6/2009	1405	1-2	JK/GR	<13.0	NA	21	10	NA	none
G-10D	8/6/2009	1405	2-3	JK/GR	<12.1	NA	18	10	NA	none
G-11A	8/6/2009	1415	0-0.5	JK/GR	281	25	979	40	NA	none
G-11B	8/6/2009	1415	0.5-1	JK/GR	<11.3	NA	25	11	NA	none
G-11C	8/6/2009	1415	1-2	JK/GR	<8.1	NA	<12.8	NA	NA	none
G-12A	8/6/2009	1425	0-0.5	JK/GR	51	10	82	14	NA	none
G-12B	8/6/2009	1425	0.5-1	JK/GR	29	9	31	11	NA	none
G-12C	8/6/2009	1425	1-2	JK/GR	<9.9	NA	20	9	NA	none
G-12D	8/6/2009	1425	2-2.75	JK/GR	<7.4	NA	<10.6	NA	NA	none
G-13A	8/6/2009	1432	0-0.5	JK/GR	716	33	771	37	NA	none
G-13B	8/6/2009	1432	0.5-1	JK/GR	18	9	39	11	NA	none
G-13C	8/6/2009	1432	1-2	JK/GR	12	8	45	12	NA	Direct-puch refusal on bedrock
G-14A	8/6/2009	1440	0-0.5	JK/GR	66	11	124	15	NA	none
G-14B	8/6/2009	1440	0.5-1	JK/GR	67	13	106	15	NA	none
G-14C	8/6/2009	1440	1-2	JK/GR	<9.9	NA	<11.4	NA	NA	none
G-14D	8/6/2009	1440	2-2.2	JK/GR	<8.4	NA	14	9	NA	Direct-push refusal on bedrock
G-15A	8/6/2009	1446	0-0.5	JK/GR	624	29	370	25	NA	none
G-15B	8/6/2009	1446	0.5-1	JK/GR	67	14	78	13	NA	none
G-15C	8/6/2009	1446	1-2	JK/GR	26	11	70	13	NA	none
G-15D	8/6/2009	1446	2-3	JK/GR	16	10	76	14	NA	none
G-16A	8/6/2009	1453	0-0.5	JK/GR	718	32	971	39	NA	none
G-16B	8/6/2009	1453	0.5-1	JK/GR	<10.7	NA	17	9	NA	none
G-16C	8/6/2009	1453	1-2	JK/GR	<10.6	NA	15	9	NA	none
G-16D	8/6/2009	1453	2-3	JK/GR	318	33	229	19	231	XRF to Lab Split for G-16D
G-16E (G-16D Split)	8/6/2009	1453	2-3	JK/GR	213	19	224	19	NA	XRF to XRF Split for G-16D
G-17A	8/6/2009	1500	0.25	JK/GR	24700	200	30900	300	NA	none
G-18A	8/6/2009	1505	0-0.5	JK/GR	54	10	162	17	NA	none
G-18B	8/6/2009	1505	0.5-1	JK/GR	56	11	57	12	NA	Direct-push refusal on bedrock
G-19A	8/6/2009	1510	0-0.5	JK/GR	139	15	259	21	NA	none
G-19B	8/6/2009	1510	0.5-1	JK/GR	<11.3	NA	<11.7	NA	NA	none
G-19C	8/6/2009	1510	1-2	JK/GR	<10.5	NA	<12.8	NA	NA	none

**TABLE 1**  
**SOIL ANALYSIS LOG**  
**OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA**

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	In Situ Results		Prepared Results		Laboratory Results ppm	Notes
					XRF ppm	Error ppm	XRF ppm	Error +/- ppm		
G-19D	8/6/2009	1510	2-3	JK/GR	<9.9	NA	<12.8	NA	NA	none
G-20A	8/6/2009	1518	0-0.5	JK/GR	16900	200	101100	900	NA	none
G-20B	8/6/2009	1518	0.5-1	JK/GR	208	19	90	17	NA	none
G-20C	8/6/2009	1518	1-2	JK/GR	13	8	21	9	NA	none
G-20D	8/6/2009	1518	2-2.75	JK/GR	4638	87	1228	44	NA	Direct-push refusal on bedrock
G-21A	8/6/2009	1525	0-0.5	JK/GR	7062	112	14500	200	NA	none
G-21B	8/6/2009	1525	0.5-1	JK/GR	49	10	747	38	NA	Direct-push refusal on bedrock
G-22A	8/6/2009	1532	0-0.5	JK/GR	54	8	75	13	67.0	XRF to Lab Split for G-22A
G-22E (G-22A Split)	8/6/2009	1532	0-0.5	JK/GR	45	11	80	13	NA	XRF to XRF Split for G-22A
G-22B	8/6/2009	1532	0.5-1	JK/GR	34	11	47	12	NA	none
G-22C	8/6/2009	1532	1-2	JK/GR	<10.2	NA	<12.1	NA	NA	none
G-22D	8/6/2009	1532	2-3	JK/GR	<11.2	NA	<11.5	NA	NA	none
G-23A	8/6/2009	1538	0-0.5	JK/GR	768	33	1582	53	NA	none
G-23B	8/6/2009	1538	0.5-1	JK/GR	475	28	799	40	NA	none
G-23C	8/6/2009	1538	1-1.5	JK/GR	612	31	553	32	NA	Direct-push refusal on bedrock
G-24A	8/6/2009	1545	0-0.5	JK/GR	85	12	228	30	NA	none
G-24B	8/6/2009	1545	0.5-1	JK/GR	38	10	62	14	NA	none
G-24C	8/6/2009	1545	1-2	JK/GR	23	9	<13.3	NA	NA	Direct-push refusal on bedrock
G-25A	8/6/2009	1552	0-0.25	JK/GR	764	31	1676	53	NA	Direct-push refusal on bedrock
G-26A	8/6/2009	1556	0-0.5	JK/GR	35	9	71	12	NA	none
G-26B	8/6/2009	1556	0.5-1	JK/GR	<12.3	NA	15	9	NA	none
G-26C	8/6/2009	1556	1-2	JK/GR	<12.3	NA	<13.6	NA	NA	none
G-26D	8/6/2009	1556	2-3	JK/GR	<10.8	NA	7	9	NA	none
G-27A	9/24/2009	1415	0-0.5	GR	238	27	380	50	NA	none
G-27B	9/24/2009	1421	0.5-0.75	GR	147	29	253	43	NA	refusal on rock
G-29A	9/24/2009	1445	0-0.5	GR	228	33	364	44	NA	none
G-29B	9/24/2009	1449	0.5-1	GR	208	34	263	37	NA	none
G-29C	9/24/2009	1456	1-2	GR	71	21	153	32	NA	refusal on rock
G-33A	9/24/2009	1547	0-0.5	GR	94	28	146	31	NA	refusal on rock
G-34A	9/24/2009	1632	0-0.5	GR	50	18	66	23	NA	none
G-34B	9/24/2009	1639	0.5-1	GR	32	16	47	20	NA	none
G-34C	9/24/2009	1648	1-2	GR	57	19	34	17	28.1	XRF to Lab Split for G-34C
G-34E (G-34C Split)	9/24/2009	1648	1-2	GR	39	18	26	16	NA	XRF to XRF Split for G-34C
G-34D	9/24/2009	1656	2-3	GR	37	18	63	22	NA	none
G-34D2	9/24/2009	1702	3-4	GR	33	18	71	23	NA	none
G-34D3	9/24/2009	1710	4-4.7	GR	38	16	62	22	NA	none

**TABLE 1**  
**SOIL ANALYSIS LOG**  
**OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA**

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	In Situ Results		Prepared Results		Laboratory Results ppm	Notes
					XRF ppm	Error ppm	XRF ppm	Error +/- ppm		
G-1c	10/27/2009	0956	surface*	CC	147	31	NA	NA	NA	collected this screening location
G-1n	10/27/2009	0958	surface*	CC	131	32	NA	NA	NA	in situ unprepared confirmation
G-1e	10/27/2009	0946	surface*	CC	97	29	NA	NA	NA	in situ unprepared confirmation
G-1s	10/27/2009	0958	surface*	CC	131	34	NA	NA	NA	in situ unprepared confirmation
G-1w	10/27/2009	1000	surface*	CC	146	57	NA	NA	NA	in situ unprepared confirmation
G-2c	10/27/2009	1004	surface*	CC	85	30	NA	NA	NA	in situ unprepared confirmation
G-2n	10/27/2009	1007	surface*	CC	111	32	NA	NA	NA	in situ unprepared confirmation
G-2e	10/27/2009	1008	surface*	CC	111	28	NA	NA	NA	in situ unprepared confirmation
G-2s	10/27/2009	1009	surface*	CC	140	39	NA	NA	NA	in situ unprepared confirmation
G-2w	10/27/2009	1010	surface*	CC	197	37	NA	NA	NA	collected this screening location
G-3c	10/27/2009	0945	surface*	CC	110	25	NA	NA	NA	in situ unprepared confirmation
G-3n	10/27/2009	0944	surface*	CC	228	39	NA	NA	NA	collected this screening location
G-3e	10/27/2009	0943	surface*	CC	150	31	NA	NA	NA	in situ unprepared confirmation
G-3s	10/27/2009	0946	surface*	CC	97	29	NA	NA	NA	in situ unprepared confirmation
G-3w	10/27/2009	0948	surface*	CC	131	32	NA	NA	NA	in situ unprepared confirmation
G-5c	10/27/2009	0942	surface*	CC	117	28	NA	NA	NA	in situ unprepared confirmation
G-5n	10/27/2009	0940	surface*	CC	168	31	NA	NA	NA	in situ unprepared confirmation
G-5e	10/27/2009	0934	surface*	CC	99	24	NA	NA	NA	in situ unprepared confirmation
G-5s	10/27/2009	0943	surface*	CC	150	31	NA	NA	NA	in situ unprepared confirmation
G-5w	10/27/2009	0944	surface*	CC	288	39	NA	NA	NA	collected this screening location
G-7c	10/27/2009	0931	surface*	CC	161	30	NA	NA	NA	in situ unprepared confirmation
G-7n	10/27/2009	0929	surface*	CC	70	23	NA	NA	NA	in situ unprepared confirmation
G-7e	10/27/2009	0928	surface*	CC	73	25	NA	NA	NA	in situ unprepared confirmation
G-7s	10/27/2009	0934	surface*	CC	99	24	NA	NA	NA	in situ unprepared confirmation
G-7w	10/27/2009	0940	surface*	CC	168	31	NA	NA	NA	collected this screening location
G-9c	10/27/2009	0925	surface*	CC	246	41	NA	NA	NA	in situ unprepared confirmation
G-9n	10/27/2009	0922	surface*	CC	299	44	NA	NA	NA	collected this screening location
G-9e	10/27/2009	0922	surface*	CC	50	19	NA	NA	NA	in situ unprepared confirmation
G-9s	10/27/2009	0929	surface*	CC	73	25	NA	NA	NA	rock
G-9w	10/27/2009	0929	surface*	CC	70	23	NA	NA	NA	in situ unprepared confirmation
G-11c	10/27/2009	0920	surface*	CC	216	40	NA	NA	NA	in situ unprepared confirmation
G-11n	10/27/2009	0918	surface*	CC	113	29	NA	NA	NA	in situ unprepared confirmation
G-11e	10/27/2009	0916	surface*	CC	124	30	NA	NA	NA	rock
G-11s	10/27/2009	0921	surface*	CC	50	19	NA	NA	NA	in situ unprepared confirmation
G-11w	10/27/2009	0922	surface*	CC	299	44	NA	NA	NA	collected this screening location
G-13c	10/27/2009	0911	surface*	CC	132	33	NA	NA	NA	rock

**TABLE 1**  
**SOIL ANALYSIS LOG**  
**OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA**

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	In Situ Results		Prepared Results		Laboratory Results ppm	Notes
					XRF ppm	Error ppm	XRF ppm	Error +/- ppm		
G-13n	10/27/2009	0912	surface*	CC	149	31	NA	NA	NA	in situ unprepared confirmation
G-13e	10/27/2009	0852	surface*	CC	191	44	NA	NA	NA	collected this screening location
G-13s	10/27/2009	0916	surface*	CC	124	30	NA	NA	NA	rock
G-13w	10/27/2009	0918	surface*	CC	113	29	NA	NA	NA	in situ unprepared confirmation
G-16c	10/27/2009	0905	surface*	CC	205	44	NA	NA	NA	collected this screening location
G-16n	10/27/2009	0904	surface*	CC	99	25	NA	NA	NA	in situ unprepared confirmation
G-16e	10/27/2009	0838	surface*	CC	203	36	NA	NA	NA	in situ unprepared confirmation
G-16s	10/27/2009	0907	surface*	CC	191	35	NA	NA	NA	in situ unprepared confirmation
G-16w	10/27/2009	0908	surface*	CC	187	34	NA	NA	NA	in situ unprepared confirmation
G-17c	10/27/2009	0845	surface*	CC	279	43	NA	NA	NA	rock
G-17n	10/27/2009	0838	surface*	CC	203	36	NA	NA	NA	collected this screening location
G-17e	10/27/2009	0836	surface*	CC	62	21	NA	NA	NA	rock
G-17s	10/27/2009	0852	surface*	CC	191	44	NA	NA	NA	in situ unprepared confirmation
G-17w	10/27/2009	0854	surface*	CC	145	32	NA	NA	NA	in situ unprepared confirmation
G-20c	10/27/2009	0858	surface*	CC	120	29	NA	NA	NA	in situ unprepared confirmation
G-20n	10/27/2009	0900	surface*	CC	105	28	NA	NA	NA	in situ unprepared confirmation
G-20e	10/27/2009	0902	surface*	CC	216	49	NA	NA	NA	collected this screening location
G-20s	10/27/2009	0838	surface*	CC	203	36	NA	NA	NA	in situ unprepared confirmation
G-20w	10/27/2009	0904	surface*	CC	99	25	NA	NA	NA	in situ unprepared confirmation
G-21c	10/27/2009	0835	surface*	CC	180	32	NA	NA	NA	rock
G-21n	10/27/2009	0831	surface*	CC	80	26	NA	NA	NA	in situ unprepared confirmation
G-21e	10/27/2009	0829	surface*	CC	122	36	NA	NA	NA	in situ unprepared confirmation
G-21s	10/27/2009	0836	surface*	CC	62	21	NA	NA	NA	rock
G-21w	10/27/2009	0838	surface*	CC	203	36	NA	NA	NA	collected this screening location
G-23c	10/27/2009	0818	surface*	CC	68	25	NA	NA	NA	rock
G-23n	10/27/2009	0820	surface*	CC	35	18	NA	NA	NA	collected this screening location
G-23e	10/27/2009	0812	surface*	CC	27	18	NA	NA	NA	in situ unprepared confirmation
G-23s	10/27/2009	0829	surface*	CC	122	36	NA	NA	NA	rock
G-23w	10/27/2009	0831	surface*	CC	80	25	NA	NA	NA	rock
G-25c	10/27/2009	0805	surface*	CC	49	21	NA	NA	NA	in situ unprepared confirmation
G-25n	10/27/2009	0810	surface*	CC	110	25	NA	NA	NA	in situ unprepared confirmation
G-25e	10/27/2009	0811	surface*	CC	131	27	NA	NA	NA	collected this screening location
G-25s	10/27/2009	0812	surface*	CC	27	18	NA	NA	NA	in situ unprepared confirmation
G-25w	10/27/2009	0814	surface*	CC	78	23	NA	NA	NA	trees
G-1c	10/27/2009	1045	0-0.5*	JS	37	15	56	21	NA	none
G-2w	10/27/2009	1047	0-0.5*	GR	121	24	202	36	193	MS/MSD collected.

**TABLE 1**  
**SOIL ANALYSIS LOG**  
**OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA**

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	In Situ Results		Prepared Results		Laboratory Results ppm	Notes
					XRF ppm	Error ppm	XRF ppm	Error +/- ppm		
G-2wDUP	10/27/2009	1047	0-0.5*	lab	121	24	202	36	162	Internal split by laboratory
G-3n	10/27/2009	1055	0-0.5*	JS	24	14	52	20	NA	none
G-5w	10/27/2009	1055	0-0.5*	GR	<123	NA	36	14	NA	none
G-7w	10/27/2009	1100	0-0.5*	GR	114	23	167	33	NA	none
G-9n	10/27/2009	1100	0-0.5*	JS	109	23	286	40	322	none
G-9p	10/27/2009	1100	0-0.5*	JS	280	36	301	40	NA	XRF split for G-9n
G-11w	10/27/2009	1105	0-0.5*	GR	<b>521</b>	49	<b>486</b>	50	404	none
G-11p	10/27/2009	1105	0-0.5*	GR	<b>413</b>	44	<b>439</b>	49	434	XRF and Lab Split for G-11w
G-13e	10/27/2009	1105	0-0.5*	JS	251	34	312	42	278	none
G-16c	10/27/2009	1110	0-0.5*	GR	<17.9	NA	21	11	NA	none
G-17n	10/27/2009	1110	0-0.5*	JS	90	22	82	23	NA	none
G-20e	10/27/2009	1115	0-0.5*	LK	28	15	48	19	NA	none
G-21w	10/27/2009	1115	0-0.5*	JS	99	22	119	27	NA	none
G-23n	10/27/2009	1120	0-0.5*	JS	<18.2	NA	<20.8	NA	NA	none
G-25e	10/27/2009	1120	0-0.5*	GR	71	20	125	30	NA	none
Average Confirmation Sample Lead Concentration							123			average is less than 400 mg/kg

XRF - X-ray fluorescence (Niton Model XL3t 500, Serial Number 30887). ppm or mg/kg - parts per million or milligrams per kilogram.

\* Surface of or depth below the bottom of the excavation.

< - not detected below the following level. NA - not applicable for error or not analyzed for lab. Levels exceeding 400 ppm are **bolded** and highlighted.

Confirmation soil sample XRF results are italicized.

DAILY QA/QC Check completed (XRF standards at beginning and end of day and replicates (low, mid and high) within 20% difference).

JK/GR - Samplers John Keczan and George Robertson. Samples were tracked on Lancaster Laboratories chain-of-custody (see certificate-of-analysis).

**TABLE 2**  
**QUALITY ASSURANCE/QUALITY CONTROL ANALYTICAL RESULTS**  
**OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA**

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	XRF Lead (ppm)	Lab Lead (ppm)	RPD (%)	Notes
G-1B	8/6/2009	1145	0-0.5	JK/GR	1727	1550	11%	Lab Split for XRF sample G-1B
G-1E	8/6/2009	1145	0-0.5	JK/GR	1741	NA	1%	XRF Split for XRF sample G-1B
G-1B MS	8/6/2009	1145	0-0.5	JK/GR	NA	3090/2690	NA	MS
G-1B MSD	8/6/2009	1145	0-0.5	JK/GR	NA	1550	NA	MSD
G-4A	8/6/2009	1210	0-0.5	JK/GR	368	383	4%	Lab Split for XRF sample G-4A
G-4E	8/6/2009	1145	0-0.5	JK/GR	395	NA	7%	XRF Split for XRF sample G-4A
G-7C	8/6/2009	1225	1-2	JK/GR	15600	9290	51%	Lab Split for XRF sample G-7C
G-7E	8/6/2009	1225	1-2	JK/GR	NA	9100	2%	Lab Split for Lab sample G-7C
G-7E	8/6/2009	1145	0-0.5	JK/GR	12500	NA	22%	XRF Split for XRF sample G-7C
G-16D	8/6/2009	1453	2-3	JK/GR	229	231	1%	Lab Split for XRF sample G-16D
G-16E	8/6/2009	1145	0-0.5	JK/GR	224	NA	2%	XRF Split for XRF sample G-16D
G-22A	8/6/2009	1532	0-0.5	JK/GR	75	67.0	11%	Lab Split for XRF sample G-22A
G-22E	8/6/2009	1145	0-0.5	JK/GR	80	NA	6%	XRF Split for XRF sample G-22A
G-34C	9/24/2009	1648	1-2	GR	34	28.1	19%	Lab Split for XRF sample G-34C
G-34E	9/24/2009	1600	1-2	GR	26	NA	27%	XRF Split for XRF sample G-34C
G-34E	9/24/2009	1648	1-2	GR	NA	26.7	5%	Lab Split for Lab sample G-34C
G-2w	10/27/2009	1047	0-0.5*	GR	202	193	5%	Lab split for XRF sample G-2w
G-2w DUP	10/27/2009	1047	0-0.5*	lab	NA	162	17%	Internal Lab Split for Lab sample G-2w
G-9n	10/27/2009	1100	0-0.5*	JS	286	322	12%	Lab Split for XRF sample G-9n
G-9p	10/27/2009	1100	0-0.5*	JS	301	NA	5%	XRF Split for XRF sample G-9n
G-11w	10/27/2009	1105	0-0.5*	GR	486	404	18%	Lab Split for XRF sample G-11w
G-11p	10/27/2009	1105	0-0.5*	GR	NA	434	7%	Lab Split for Lab sample G-11w
G-11p	10/27/2009	1105	0-0.5*	GR	439	434	10%	XRF Split for XRF sample G-11w

**TABLE 2**  
**QUALITY ASSURANCE/QUALITY CONTROL ANALYTICAL RESULTS**  
**OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA**

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	XRF Lead (ppm)	Lab Lead (ppm)	RPD (%)	Notes
G-13e	10/27/2009	1105	0-0.5*	JS	312	278	12%	Lab Split for XRF sample G-13e
G-34C MS	9/24/2009	1648	1-2	GR	NA	50.1	NA	MS
G-34C MSD	9/24/2009	1648	1-2	GR	NA	44.8	NA	MSD
G-2w MS	10/27/2009	1047	0-0.5*	GR	NA	219	NA	MS
G-2w MSD	10/27/2009	1047	0-0.5*	GR	NA	193	NA	MSD
RB-1	8/6/2009	1145	0-3	JK/GR	NA	<0.0069	NA	Rinse Blank for XRF G-1
RB-2	8/6/2009	1350	0-2	JK/GR	NA	0.0118 J	NA	Rinse Blank for XRF G-6
RB-3	8/6/2009	1425	0-2.75	JK/GR	NA	<0.0069	NA	Rinse Blank for XRF G-12
RB-4	8/6/2009	1505	0-1	JK/GR	NA	<0.0069	NA	Rinse Blank for XRF G-18
RB-5	8/6/2009	1545	0-2	JK/GR	NA	<0.0069	NA	Rinse Blank for XRF G-24
RB-6	9/24/2009	1510	0-0.75	GR	NA	<0.0069	NA	Rinse Blank for XRF G-29
						RSQ	0.9973	RSQ for XRF vs Lab Analysis

ppm - parts per million, milligrams per kilogram (mg/kg for soil), or milligrams per liter (mg/L for liquids).

XRF - X-ray fluorescence Niton Model XL3t 500 analytical results (87 soil samples were analyzed).

Lab - Lancaster Laboratories analytical results (5 XRF splits were analyzed plus a lab split, MS, MSD and 5 RBs).

\* depth below bottom of excavation.

NA - not applicable

MS - matrix spike

MSD - matrix spike duplicate

RB - rinse blank

RPD - relative percent difference.



RPD between XRF & XRF



RPD between XRF & Lab



RPD between Lab & Lab

DUP - duplicate

**TABLE 3**  
**WASTE CHARACTERIZATION ANALYTICAL RESULTS ABOVE METHOD DETECTION LIMITS**  
**OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA**

Sample Identification	Sample Date	Sample Time	Depth* Interval (Feet)	Samplers	Total PCB (mg/kg)	TN EPH (mg/kg)	TCLP			Notes
							Barium (mg/L)	Cadmium (mg/L)	Lead (mg/L)	
<b>MCL</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>50</b>	<b>NA</b>	<b>100</b>	<b>1</b>	<b>5</b>	<b>none</b>
WC-A	8/25/2009	1200	0-2	JH/TW	0.460	200	0.508	0.0090 J	<b>20.0</b>	fails for TCLP lead
WC-B	8/25/2009	1400	0-2	JH/TW	3.800	350	0.444	0.0083 J	<b>219</b>	fails for TCLP lead
WC-C	8/25/2009	1530	0-2	JH/TW	0.470	59	0.322	0.0032 J	<b>37.8</b>	fails for TCLP lead

MDL - method detection levels

\* - depths vary per aliquot to include the exact depth intervals in which total lead concentrations were detected above 400 parts per million.

TCLP - toxicity characteristic leaching procedure

MCL - maximum contaminant level

mg/kg - milligrams per kilogram.

mg/L - milligrams per liter.

J - A J qualifier indicates a concentration below the laboratory practical quantification level, but above the MDL.

**bold** indicates an exceedance.

*Appendix D*  
*Laboratory Analytical Reports*  
*and Chain-of-Custody*



**ANALYTICAL RESULTS**

Prepared for:

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

540-981-4993

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

August 21, 2009

**SAMPLE GROUP**

The sample group for this submittal is 1154670. Samples arrived at the laboratory on Thursday, July 23, 2009. The PO# for this group is 1-9-WV-PRTN-SA08 and the release number is SC8675#8453760.

**Client Description****Lancaster Labs Number**

Green Valley 1 Composite Soil Sample	5730897
Green Valley 2 Composite Soil Sample	5730898
Green Valley 3 Composite Soil Sample	5730899
Athens Borrow 1 Composite Soil Sample	5730900
Athens Borrow 2 Composite Soil Sample	5730901

**METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO

Marshall Miller & Associates  
Marshall Miller & Associates

Attn: Chuck Cline

Attn: George Robertson

Questions? Contact your Client Services Representative  
Angela M Miller at (717) 656-2300

Respectfully Submitted,



**Robin C. Runkle**  
**Senior Specialist**

Lancaster Laboratories Sample No. SW 5730897

Group No. 1154670

 Green Valley 1 Composite Soil Sample  
Old Athens Turnpike

WV

Collected: 07/22/2009 11:20 by JK

Account Number: 11716

Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

Reported: 08/21/2009 at 16:53

110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

GRV01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8260B</b>	<b>GC/MS Volatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
06292	Acetone	67-64-1	120	6	0.72
06292	Benzene	71-43-2	N.D.	0.4	0.72
06292	Bromodichloromethane	75-27-4	N.D.	0.8	0.72
06292	Bromoform	75-25-2	N.D.	0.8	0.72
06292	Bromomethane	74-83-9	N.D.	2	0.72
06292	2-Butanone	78-93-3	9	3	0.72
06292	Carbon Disulfide	75-15-0	N.D.	0.8	0.72
06292	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.72
06292	Chlorobenzene	108-90-7	N.D.	0.8	0.72
06292	Chloroethane	75-00-3	N.D.	2	0.72
06292	Chloroform	67-66-3	N.D.	0.8	0.72
06292	Chloromethane	74-87-3	N.D.	2	0.72
06292	Dibromochloromethane	124-48-1	N.D.	0.8	0.72
06292	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.72
06292	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.72
06292	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.72
06292	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.72
06292	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.72
06292	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.72
06292	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.72
06292	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.72
06292	Ethylbenzene	100-41-4	N.D.	0.8	0.72
06292	2-Hexanone	591-78-6	N.D.	3	0.72
06292	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.72
06292	Methylene Chloride	75-09-2	N.D.	2	0.72
06292	Styrene	100-42-5	N.D.	0.8	0.72
06292	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.72
06292	Tetrachloroethene	127-18-4	N.D.	0.8	0.72
06292	Toluene	108-88-3	N.D.	0.8	0.72
06292	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.72
06292	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.72
06292	Trichloroethene	79-01-6	N.D.	0.8	0.72
06292	Vinyl Chloride	75-01-4	N.D.	0.8	0.72
06292	Xylene (Total)	1330-20-7	N.D.	0.8	0.72
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
04688	Acenaphthene	83-32-9	N.D.	39	1
04688	Acenaphthylene	208-96-8	N.D.	39	1
04688	Anthracene	120-12-7	N.D.	39	1
04688	Benzo(a)anthracene	56-55-3	N.D.	39	1
04688	Benzo(a)pyrene	50-32-8	N.D.	39	1
04688	Benzo(b)fluoranthene	205-99-2	N.D.	39	1
04688	Benzo(g,h,i)perylene	191-24-2	N.D.	39	1
04688	Benzo(k)fluoranthene	207-08-9	N.D.	39	1
04688	4-Bromophenyl-phenylether	101-55-3	N.D.	39	1
04688	Butylbenzylphthalate	85-68-7	N.D.	78	1
04688	Di-n-butylphthalate	84-74-2	N.D.	78	1
04688	Carbazole	86-74-8	N.D.	39	1

Lancaster Laboratories Sample No. SW 5730897

Group No. 1154670

 Green Valley 1 Composite Soil Sample  
Old Athens Turnpike

WV

Collected: 07/22/2009 11:20 by JK

Account Number: 11716

Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

Reported: 08/21/2009 at 16:53

110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

GRV01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846</b>	<b>8270C</b>				
	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
04688	4-Chloro-3-methylphenol	59-50-7	N.D.	78	1
04688	4-Chloroaniline	106-47-8	N.D.	78	1
04688	bis(2-Chloroethoxy)methane	111-91-1	N.D.	39	1
04688	bis(2-Chloroethyl)ether	111-44-4	N.D.	39	1
04688	2-Chloronaphthalene	91-58-7	N.D.	39	1
04688	2-Chlorophenol	95-57-8	N.D.	39	1
04688	4-Chlorophenyl-phenylether	7005-72-3	N.D.	39	1
04688	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	39	1
04688	Chrysene	218-01-9	N.D.	39	1
04688	Dibenz(a,h)anthracene	53-70-3	N.D.	39	1
04688	Dibenzofuran	132-64-9	N.D.	39	1
04688	1,2-Dichlorobenzene	95-50-1	N.D.	39	1
04688	1,3-Dichlorobenzene	541-73-1	N.D.	39	1
04688	1,4-Dichlorobenzene	106-46-7	N.D.	39	1
04688	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
04688	2,4-Dichlorophenol	120-83-2	N.D.	39	1
04688	Diethylphthalate	84-66-2	N.D.	78	1
04688	2,4-Dimethylphenol	105-67-9	N.D.	78	1
04688	Dimethylphthalate	131-11-3	N.D.	78	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1
04688	2,4-Dinitrophenol	51-28-5	N.D.	780	1
04688	2,4-Dinitrotoluene	121-14-2	N.D.	78	1
04688	2,6-Dinitrotoluene	606-20-2	N.D.	39	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	78	1
04688	Fluoranthene	206-44-0	N.D.	39	1
04688	Fluorene	86-73-7	N.D.	39	1
04688	Hexachlorobenzene	118-74-1	N.D.	39	1
04688	Hexachlorobutadiene	87-68-3	N.D.	78	1
04688	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
04688	Hexachloroethane	67-72-1	N.D.	39	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	39	1
04688	Isophorone	78-59-1	N.D.	39	1
04688	2-Methylnaphthalene	91-57-6	N.D.	39	1
04688	2-Methylphenol	95-48-7	N.D.	78	1
04688	4-Methylphenol	106-44-5	N.D.	78	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
04688	Naphthalene	91-20-3	N.D.	39	1
04688	2-Nitroaniline	88-74-4	N.D.	39	1
04688	3-Nitroaniline	99-09-2	N.D.	78	1
04688	4-Nitroaniline	100-01-6	N.D.	78	1
04688	Nitrobenzene	98-95-3	N.D.	39	1
04688	2-Nitrophenol	88-75-5	N.D.	39	1
04688	4-Nitrophenol	100-02-7	N.D.	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	N.D.	39	1
04688	N-Nitrosodiphenylamine	86-30-6	N.D.	39	1

**Lancaster Laboratories Sample No. SW 5730897**
**Group No. 1154670  
WV**
**Green Valley 1 Composite Soil Sample  
Old Athens Turnpike**

Collected: 07/22/2009 11:20 by JK

Account Number: 11716

 Submitted: 07/23/2009 08:45  
 Reported: 08/21/2009 at 16:53  
 Discard: 09/21/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

GRV01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
04688	Di-n-octylphthalate	117-84-0	N.D.	78	1
04688	Pentachlorophenol	87-86-5	N.D.	190	1
04688	Phenanthrene	85-01-8	N.D.	39	1
04688	Phenol	108-95-2	N.D.	39	1
04688	Pyrene	129-00-0	N.D.	39	1
04688	1,2,4-Trichlorobenzene	120-82-1	N.D.	39	1
04688	2,4,5-Trichlorophenol	95-95-4	N.D.	78	1
04688	2,4,6-Trichlorophenol	88-06-2	N.D.	39	1
<b>SW-846 8151A</b>	<b>Herbicides</b>		<b>ug/kg</b>	<b>ug/kg</b>	
01865	2,4-D	94-75-7	N.D.	14	1
01865	Dalapon	75-99-0	N.D.	35	1
01865	2,4-DB	94-82-6	N.D.	7.2	1
01865	Dicamba	1918-00-9	N.D.	4.7	1
01865	Dinoseb	88-85-7	N.D.	9.3	1
01865	2,4-DP (Dichloroprop)	120-36-5	N.D.	9.3	1
01865	MCPA	94-74-6	N.D.	880	1
01865	MCPP (Mecoprop)	93-65-2	N.D.	870	1
01865	Pentachlorophenol	87-86-5	N.D.	0.38	1
01865	2,4,5-T	93-76-5	N.D.	0.95	1
01865	2,4,5-TP	93-72-1	N.D.	0.87	1
<b>SW-846 8081A</b>	<b>Pesticides/PCBs</b>		<b>ug/kg</b>	<b>ug/kg</b>	
06001	Aldrin	309-00-2	N.D.	0.38	1
06001	Alpha BHC	319-84-6	N.D.	0.20	1
06001	Beta BHC	319-85-7	0.31 J	0.20	1
06001	Gamma BHC - Lindane	58-89-9	N.D.	0.20	1
06001	Chlordane	57-74-9	N.D.	4.7	1
06001	p,p-DDD	72-54-8	N.D.	0.38	1
06001	p,p-DDE	72-55-9	N.D.	0.38	1
06001	p,p-DDT	50-29-3	N.D.	0.38	1
06001	Delta BHC	319-86-8	N.D.	0.36	1
06001	Dieldrin	60-57-1	N.D.	0.38	1
06001	Endosulfan I	959-98-8	N.D.	0.26	1
06001	Endosulfan II	33213-65-9	N.D.	0.38	1
06001	Endosulfan Sulfate	1031-07-8	N.D.	0.38	1
06001	Endrin	72-20-8	N.D.	0.38	1
06001	Endrin Aldehyde	7421-93-4	N.D.	0.38	1
06001	Heptachlor	76-44-8	N.D.	0.20	1
06001	Heptachlor Epoxide	1024-57-3	N.D.	0.20	1
06001	Kepone	143-50-0	N.D.	2.7	1
06001	Methoxychlor	72-43-5	N.D.	2.0	1
06001	Toxaphene	8001-35-2	N.D.	13	1

Lancaster Laboratories Sample No. SW 5730897

 Group No. 1154670  
WV

 Green Valley 1 Composite Soil Sample  
Old Athens Turnpike

Collected: 07/22/2009 11:20 by JK

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 Submitted: 07/23/2009 08:45  
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Discard: 09/21/2009

 Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

GRV01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
<b>SW-846 8082</b>		<b>Pesticides/PCBs</b>			<b>ug/kg</b>	
02033	PCB-1016	12674-11-2	N.D.		3.84	1
02033	PCB-1221	11104-28-2	N.D.		4.66	1
02033	PCB-1232	11141-16-5	N.D.		6.17	1
02033	PCB-1242	53469-21-9	N.D.		3.84	1
02033	PCB-1248	12672-29-6	N.D.		3.84	1
02033	PCB-1254	11097-69-1	N.D.		3.84	1
02033	PCB-1260	11096-82-5	N.D.		3.84	1
<b>SW-846 8015B modified GC Extractable TPH</b>					<b>mg/kg</b>	
06631	C13 - C22	n.a.	11	J	4.7	1
06631	C23 - C40	n.a.	69		4.7	1
06631	Total TPH	n.a.	80		4.7	1
<b>SW-846 6010B</b>		<b>Metals</b>			<b>mg/kg</b>	
01643	Aluminum	7429-90-5	18,500		5.63	1
06944	Antimony	7440-36-0	N.D.		1.12	1
06935	Arsenic	7440-38-2	3.99		1.06	1
06946	Barium	7440-39-3	124		0.0448	1
06947	Beryllium	7440-41-7	1.36		0.0761	1
06949	Cadmium	7440-43-9	0.966		0.157	1
01650	Calcium	7440-70-2	2,700		6.86	1
06951	Chromium	7440-47-3	33.4		0.660	1
06952	Cobalt	7440-48-4	28.3		0.213	1
06953	Copper	7440-50-8	37.1		0.224	1
01654	Iron	7439-89-6	47,800		26.4	5
06955	Lead	7439-92-1	17.4		0.672	1
01657	Magnesium	7439-95-4	4,360		2.84	1
06958	Manganese	7439-96-5	880		0.0627	1
06961	Nickel	7440-02-0	39.4		0.201	1
01662	Potassium	7440-09-7	1,480		14.7	1
06936	Selenium	7782-49-2	1.42	J	1.10	1
06966	Silver	7440-22-4	N.D.		0.201	1
01667	Sodium	7440-23-5	109	J	41.8	1
06925	Thallium	7440-28-0	N.D.		1.62	1
06971	Vanadium	7440-62-2	50.0		0.190	1
06972	Zinc	7440-66-6	85.3		0.739	1
<b>SW-846 7471A</b>		<b>Metals</b>			<b>mg/kg</b>	
00159	Mercury	7439-97-6	N.D.		0.0129	1
<b>EPA 365.1</b>		<b>Wet Chemistry</b>			<b>mg/kg</b>	
05893	Total Phosphorus as P (solid)	7723-14-0	220		11.6	1
<b>SM20 4500NH3 B/C modified</b>		<b>Wet Chemistry</b>			<b>mg/kg</b>	

**Lancaster Laboratories Sample No. SW 5730897**
**Group No. 1154670**
**Green Valley 1 Composite Soil Sample  
Old Athens Turnpike**
**WV**

Collected: 07/22/2009 11:20 by JK

Account Number: 11716

Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

Reported: 08/21/2009 at 16:53

110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

GRV01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SM20 4500NH3 B/C modified</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	
00573	Ammonia Nitrogen The reporting limit(s) for the analyte(s) above was raised due to matrix interference.	7664-41-7	N.D.	59.4	3
<b>SW-846 9045C modified</b>	<b>Wet Chemistry</b>		<b>Std. Units</b>	<b>Std. Units</b>	
00394	pH	n.a.	6.94	0.0100	1
<b>SM20 2540 G</b>	<b>Wet Chemistry</b>		<b>%</b>	<b>%</b>	
00111	Moisture "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	14.1	0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
06292	TCL by 8260 (soil)	SW-846 8260B	1	X092091AA	07/28/2009	12:11	Chelsea B Eastep	0.72
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200920518752	07/22/2009	11:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200920518752	07/22/2009	11:20	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035A	1	200920518750	07/22/2009	11:20	Client Supplied	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	09205SLA026	07/26/2009	18:19	William T Parker	1
00381	BNA Soil Extraction	SW-846 3550B	1	09205SLA026	07/24/2009	13:10	Doreen K Robles	1
01865	Herbicides in Soils	SW-846 8151A	1	092090019A	07/30/2009	22:01	John W Perkins	1
06001	App. IX OC Pesticides in Soils	SW-846 8081A	1	092080012A	07/31/2009	15:53	Lindsey K Lafferty	1
02033	PCBs in Soil	SW-846 8082	1	092080027A	08/01/2009	15:58	Jamie L Brillhart	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	1	092080027A	07/28/2009	09:00	Deborah M Zimmerman	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	2	092080012A	07/27/2009	21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	092090019A	07/29/2009	10:30	Olivia I Santiago	1

Lancaster Laboratories Sample No. SW 5730897

 Group No. 1154670  
WV

 Green Valley 1 Composite Soil Sample  
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Roanoke VA 24042-0013

GRV01

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
06631	DRO/ORO in Soil	SW-846 8015B modified	1	092060007A	07/28/2009	03:23	Robert Brown	1
07024	DRO Alternate Soil Extraction	SW-846 3550B	1	092060007A	07/26/2009	23:00	Patricia L Foreman	1
01643	Aluminum	SW-846 6010B	1	092055708002	07/27/2009	10:40	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
06935	Arsenic	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	092055708002	07/28/2009	12:36	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	092055708002	07/27/2009	10:40	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	092055708002	07/28/2009	12:36	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	092055708002	07/28/2009	02:28	Tara L Snyder	5
06955	Lead	SW-846 6010B	1	092055708002	07/28/2009	12:36	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	092055708002	07/27/2009	10:40	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	092055708002	07/27/2009	10:40	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	092055708002	07/28/2009	12:36	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	092055708002	07/27/2009	10:40	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	092055708002	07/28/2009	12:36	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	092055708002	07/28/2009	02:23	Tara L Snyder	1
00159	Mercury	SW-846 7471A	1	092055711002	07/27/2009	16:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	092055708002	07/24/2009	20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	092055711002	07/25/2009	01:20	Annamaria Stipkovits	1
05893	Total Phosphorus as P (solid)	EPA 365.1	1	09206109201A	07/29/2009	21:18	Venia B McFadden	1
08262	Total Phos as P Prep (solid)	EPA 365.1	1	09206109201A	07/25/2009	16:30	Carolyn M Mastropietro	1
00573	Ammonia Nitrogen	SM20 4500NH3 B/C modified	1	09208057301A	07/27/2009	19:00	Luz M Groff	3
00394	pH	SW-846 9045C modified	1	09205039401A	07/24/2009	21:30	Luz M Groff	1
00111	Moisture	SM20 2540 G	1	09205820004B	07/24/2009	15:18	Scott W Freisher	1

**Lancaster Laboratories Sample No. SW 5730898**
**Group No. 1154670  
WV**
**Green Valley 2 Composite Soil Sample  
Old Athens Turnpike**

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Account Number: 11716

Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

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110 Franklin Road SE

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Box 13

Roanoke VA 24042-0013

GRV02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8260B GC/MS Volatiles</b>					
06292	Acetone	67-64-1	83	6 ug/kg	0.71
06292	Benzene	71-43-2	0.6 J	0.4 ug/kg	0.71
06292	Bromodichloromethane	75-27-4	N.D.	0.8	0.71
06292	Bromoform	75-25-2	N.D.	0.8	0.71
06292	Bromomethane	74-83-9	N.D.	2	0.71
06292	2-Butanone	78-93-3	5 J	3	0.71
06292	Carbon Disulfide	75-15-0	N.D.	0.8	0.71
06292	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.71
06292	Chlorobenzene	108-90-7	N.D.	0.8	0.71
06292	Chloroethane	75-00-3	N.D.	2	0.71
06292	Chloroform	67-66-3	N.D.	0.8	0.71
06292	Chloromethane	74-87-3	N.D.	2	0.71
06292	Dibromochloromethane	124-48-1	N.D.	0.8	0.71
06292	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.71
06292	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.71
06292	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.71
06292	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.71
06292	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.71
06292	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.71
06292	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.71
06292	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.71
06292	Ethylbenzene	100-41-4	N.D.	0.8	0.71
06292	2-Hexanone	591-78-6	N.D.	2	0.71
06292	4-Methyl-2-pentanone	108-10-1	N.D.	2	0.71
06292	Methylene Chloride	75-09-2	N.D.	2	0.71
06292	Styrene	100-42-5	N.D.	0.8	0.71
06292	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.71
06292	Tetrachloroethene	127-18-4	N.D.	0.8	0.71
06292	Toluene	108-88-3	N.D.	0.8	0.71
06292	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.71
06292	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.71
06292	Trichloroethene	79-01-6	N.D.	0.8	0.71
06292	Vinyl Chloride	75-01-4	N.D.	0.8	0.71
06292	Xylene (Total)	1330-20-7	N.D.	0.8	0.71
<b>SW-846 8270C GC/MS Semivolatiles</b>					
04688	Acenaphthene	83-32-9	N.D.	38 ug/kg	1
04688	Acenaphthylene	208-96-8	N.D.	38	1
04688	Anthracene	120-12-7	N.D.	38	1
04688	Benzo(a)anthracene	56-55-3	N.D.	38	1
04688	Benzo(a)pyrene	50-32-8	N.D.	38	1
04688	Benzo(b)fluoranthene	205-99-2	N.D.	38	1
04688	Benzo(g,h,i)perylene	191-24-2	N.D.	38	1
04688	Benzo(k)fluoranthene	207-08-9	N.D.	38	1
04688	4-Bromophenyl-phenylether	101-55-3	N.D.	38	1
04688	Butylbenzylphthalate	85-68-7	N.D.	76	1
04688	Di-n-butylphthalate	84-74-2	N.D.	76	1
04688	Carbazole	86-74-8	N.D.	38	1

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WV**
**Green Valley 2 Composite Soil Sample  
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Account Number: 11716

 Submitted: 07/23/2009 08:45  
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 Discard: 09/21/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

GRV02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846</b>	<b>8270C</b>	<b>GC/MS Semivolatiles</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04688	4-Chloro-3-methylphenol	59-50-7	N.D.	76	1
04688	4-Chloroaniline	106-47-8	N.D.	76	1
04688	bis(2-Chloroethoxy)methane	111-91-1	N.D.	38	1
04688	bis(2-Chloroethyl)ether	111-44-4	N.D.	38	1
04688	2-Chloronaphthalene	91-58-7	N.D.	38	1
04688	2-Chlorophenol	95-57-8	N.D.	38	1
04688	4-Chlorophenyl-phenylether	7005-72-3	N.D.	38	1
04688	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	38	1
04688	Chrysene	218-01-9	N.D.	38	1
04688	Dibenz(a,h)anthracene	53-70-3	N.D.	38	1
04688	Dibenzofuran	132-64-9	N.D.	38	1
04688	1,2-Dichlorobenzene	95-50-1	N.D.	38	1
04688	1,3-Dichlorobenzene	541-73-1	N.D.	38	1
04688	1,4-Dichlorobenzene	106-46-7	N.D.	38	1
04688	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
04688	2,4-Dichlorophenol	120-83-2	N.D.	38	1
04688	Diethylphthalate	84-66-2	N.D.	76	1
04688	2,4-Dimethylphenol	105-67-9	N.D.	76	1
04688	Dimethylphthalate	131-11-3	N.D.	76	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1
04688	2,4-Dinitrophenol	51-28-5	N.D.	760	1
04688	2,4-Dinitrotoluene	121-14-2	N.D.	76	1
04688	2,6-Dinitrotoluene	606-20-2	N.D.	38	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	76	1
04688	Fluoranthene	206-44-0	N.D.	38	1
04688	Fluorene	86-73-7	N.D.	38	1
04688	Hexachlorobenzene	118-74-1	N.D.	38	1
04688	Hexachlorobutadiene	87-68-3	N.D.	76	1
04688	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
04688	Hexachloroethane	67-72-1	N.D.	38	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	38	1
04688	Isophorone	78-59-1	N.D.	38	1
04688	2-Methylnaphthalene	91-57-6	N.D.	38	1
04688	2-Methylphenol	95-48-7	N.D.	76	1
04688	4-Methylphenol	106-44-5	N.D.	76	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
04688	Naphthalene	91-20-3	N.D.	38	1
04688	2-Nitroaniline	88-74-4	N.D.	38	1
04688	3-Nitroaniline	99-09-2	N.D.	76	1
04688	4-Nitroaniline	100-01-6	N.D.	76	1
04688	Nitrobenzene	98-95-3	N.D.	38	1
04688	2-Nitrophenol	88-75-5	N.D.	38	1
04688	4-Nitrophenol	100-02-7	N.D.	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	N.D.	38	1
04688	N-Nitrosodiphenylamine	86-30-6	N.D.	38	1

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GRV02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
04688	Di-n-octylphthalate	117-84-0	N.D.	76	1
04688	Pentachlorophenol	87-86-5	N.D.	190	1
04688	Phenanthrene	85-01-8	N.D.	38	1
04688	Phenol	108-95-2	N.D.	38	1
04688	Pyrene	129-00-0	N.D.	38	1
04688	1,2,4-Trichlorobenzene	120-82-1	N.D.	38	1
04688	2,4,5-Trichlorophenol	95-95-4	N.D.	76	1
04688	2,4,6-Trichlorophenol	88-06-2	N.D.	38	1
<b>SW-846 8151A</b>	<b>Herbicides</b>		<b>ug/kg</b>	<b>ug/kg</b>	
01865	2,4-D	94-75-7	N.D.	14	1
01865	Dalapon	75-99-0	36	34	1
01865	2,4-DB	94-82-6	N.D.	7.1	1
01865	Dicamba	1918-00-9	N.D.	4.6	1
01865	Dinoseb	88-85-7	N.D.	9.2	1
01865	2,4-DP (Dichloroprop)	120-36-5	N.D.	9.2	1
01865	MCPA	94-74-6	N.D.	870	1
01865	MCPP (Mecoprop)	93-65-2	N.D.	860	1
01865	Pentachlorophenol	87-86-5	N.D.	0.38	1
01865	2,4,5-T	93-76-5	N.D.	0.94	1
01865	2,4,5-TP	93-72-1	N.D.	0.86	1
<b>SW-846 8081A</b>	<b>Pesticides/PCBs</b>		<b>ug/kg</b>	<b>ug/kg</b>	
06001	Aldrin	309-00-2	N.D.	0.38	1
06001	Alpha BHC	319-84-6	N.D.	0.19	1
06001	Beta BHC	319-85-7	N.D.	0.19	1
06001	Gamma BHC - Lindane	58-89-9	N.D.	0.19	1
06001	Chlordane	57-74-9	N.D.	4.6	1
06001	p,p-DDD	72-54-8	N.D.	0.38	1
06001	p,p-DDE	72-55-9	N.D.	0.38	1
06001	p,p-DDT	50-29-3	N.D.	0.38	1
06001	Delta BHC	319-86-8	N.D.	0.36	1
06001	Dieldrin	60-57-1	N.D.	0.38	1
06001	Endosulfan I	959-98-8	N.D.	0.25	1
06001	Endosulfan II	33213-65-9	N.D.	0.38	1
06001	Endosulfan Sulfate	1031-07-8	N.D.	0.38	1
06001	Endrin	72-20-8	N.D.	0.38	1
06001	Endrin Aldehyde	7421-93-4	N.D.	0.38	1
06001	Heptachlor	76-44-8	N.D.	0.19	1
06001	Heptachlor Epoxide	1024-57-3	N.D.	0.19	1
06001	Kepone	143-50-0	N.D.	2.6	1
06001	Methoxychlor	72-43-5	N.D.	1.9	1
06001	Toxaphene	8001-35-2	N.D.	13	1

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GRV02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8082</b>	<b>Pesticides/PCBs</b>		<b>ug/kg</b>	<b>ug/kg</b>	
02033	PCB-1016	12674-11-2	N.D.	3.78	1
02033	PCB-1221	11104-28-2	N.D.	4.58	1
02033	PCB-1232	11141-16-5	N.D.	6.07	1
02033	PCB-1242	53469-21-9	N.D.	3.78	1
02033	PCB-1248	12672-29-6	N.D.	3.78	1
02033	PCB-1254	11097-69-1	N.D.	3.78	1
02033	PCB-1260	11096-82-5	N.D.	3.78	1
<b>SW-846 8015B modified GC Extractable TPH</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06631	C13 - C22	n.a.	N.D.	4.6	1
06631	C23 - C40	n.a.	N.D.	4.6	1
06631	Total TPH	n.a.	N.D.	4.6	1
<b>SW-846 6010B</b>	<b>Metals</b>		<b>mg/kg</b>	<b>mg/kg</b>	
01643	Aluminum	7429-90-5	18,800	5.70	1
06944	Antimony	7440-36-0	N.D.	1.13	1
06935	Arsenic	7440-38-2	5.12	1.08	1
06946	Barium	7440-39-3	154	0.0454	1
06947	Beryllium	7440-41-7	1.37	0.0771	1
06949	Cadmium	7440-43-9	0.878	0.159	1
01650	Calcium	7440-70-2	5,170	6.95	1
06951	Chromium	7440-47-3	33.4	0.669	1
06952	Cobalt	7440-48-4	19.1	0.215	1
06953	Copper	7440-50-8	32.7	0.227	1
01654	Iron	7439-89-6	43,900	26.7	5
06955	Lead	7439-92-1	14.3	0.680	1
01657	Magnesium	7439-95-4	4,290	2.88	1
06958	Manganese	7439-96-5	553	0.0635	1
06961	Nickel	7440-02-0	36.0	0.204	1
01662	Potassium	7440-09-7	1,510	14.9	1
06936	Selenium	7782-49-2	1.41	1.11	1
06966	Silver	7440-22-4	N.D.	0.204	1
01667	Sodium	7440-23-5	105	42.3	1
06925	Thallium	7440-28-0	N.D.	1.64	1
06971	Vanadium	7440-62-2	49.0	0.193	1
06972	Zinc	7440-66-6	84.2	0.749	1
<b>SW-846 7471A</b>	<b>Metals</b>		<b>mg/kg</b>	<b>mg/kg</b>	
00159	Mercury	7439-97-6	N.D.	0.0125	1
<b>EPA 365.1</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	
05893	Total Phosphorus as P (solid)	7723-14-0	211	11.3	1
<b>SM20 4500NH3 B/C modified</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	

**Lancaster Laboratories Sample No. SW 5730898**
**Group No. 1154670  
WV**
**Green Valley 2 Composite Soil Sample  
Old Athens Turnpike**

Collected: 07/22/2009 11:40 by JK

Account Number: 11716

 Submitted: 07/23/2009 08:45  
 Reported: 08/21/2009 at 16:53  
 Discard: 09/21/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

GRV02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
SM20 4500NH3 B/C modified	Wet Chemistry		mg/kg	mg/kg	
00573	Ammonia Nitrogen The reporting limit(s) for the analyte(s) above was raised due to matrix interference.	7664-41-7	N.D.	58.4	3
SW-846 9045C modified	Wet Chemistry		Std. Units	Std. Units	
00394	pH	n.a.	7.38	0.0100	1
SM20 2540 G	Wet Chemistry		%	%	
00111	Moisture "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	12.7	0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06292	TCL by 8260 (soil)	SW-846 8260B	1	X092091AA	07/28/2009	12:34	Chelsea B Eastep	0.71
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200920518752	07/22/2009	11:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200920518752	07/22/2009	11:40	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035A	1	200920518750	07/22/2009	11:40	Client Supplied	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	09205SLA026	07/26/2009	19:30	William T Parker	1
00381	BNA Soil Extraction	SW-846 3550B	1	09205SLA026	07/24/2009	13:10	Doreen K Robles	1
01865	Herbicides in Soils	SW-846 8151A	1	092090019A	07/30/2009	23:23	John W Perkins	1
06001	App. IX OC Pesticides in Soils	SW-846 8081A	1	092080012A	07/31/2009	16:26	Lindsey K Lafferty	1
02033	PCBs in Soil	SW-846 8082	1	092080027A	08/01/2009	16:34	Jamie L Brillhart	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	1	092080027A	07/28/2009	09:00	Deborah M Zimmerman	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	2	092080012A	07/27/2009	21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	092090019A	07/29/2009	10:30	Olivia I Santiago	1

Lancaster Laboratories Sample No. SW 5730898

 Group No. 1154670  
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 Green Valley 2 Composite Soil Sample  
Old Athens Turnpike

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 Norfolk Southern Railway Co  
110 Franklin Road SE  
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Roanoke VA 24042-0013

GRV02

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
06631	DRO/ORO in Soil	SW-846 8015B modified	1	092060007A	07/28/2009	01:46	Robert Brown	1
07024	DRO Alternate Soil Extraction	SW-846 3550B	1	092060007A	07/26/2009	23:00	Patricia L Foreman	1
01643	Aluminum	SW-846 6010B	1	092055708002	07/27/2009	10:45	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
06935	Arsenic	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	092055708002	07/28/2009	12:41	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	092055708002	07/27/2009	10:45	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	092055708002	07/28/2009	12:41	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	092055708002	07/28/2009	02:37	Tara L Snyder	5
06955	Lead	SW-846 6010B	1	092055708002	07/28/2009	12:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	092055708002	07/27/2009	10:45	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	092055708002	07/27/2009	10:45	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	092055708002	07/28/2009	12:41	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	092055708002	07/27/2009	10:45	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	092055708002	07/28/2009	12:41	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	092055708002	07/28/2009	02:32	Tara L Snyder	1
00159	Mercury	SW-846 7471A	1	092055711002	07/27/2009	16:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	092055708002	07/24/2009	20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	092055711002	07/25/2009	01:20	Annamaria Stipkovits	1
05893	Total Phosphorus as P (solid)	EPA 365.1	1	09206109201A	08/04/2009	19:11	Venia B McFadden	1
08262	Total Phos as P Prep (solid)	EPA 365.1	1	09206109201A	07/25/2009	16:30	Carolyn M Mastropietro	1
00573	Ammonia Nitrogen	SM20 4500NH3 B/C modified	1	09208057301A	07/27/2009	19:00	Luz M Groff	3
00394	pH	SW-846 9045C modified	1	09205039401A	07/24/2009	21:30	Luz M Groff	1
00111	Moisture	SM20 2540 G	1	09205820004B	07/24/2009	15:18	Scott W Freisher	1

Lancaster Laboratories Sample No. SW 5730899

 Group No. 1154670  
WV

 Green Valley 3 Composite Soil Sample  
Old Athens Turnpike

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Discard: 09/21/2009

 Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

GRV03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8260B</b>	<b>GC/MS Volatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
06292	Acetone	67-64-1	120	6	0.74
06292	Benzene	71-43-2	N.D.	0.4	0.74
06292	Bromodichloromethane	75-27-4	N.D.	0.9	0.74
06292	Bromoform	75-25-2	N.D.	0.9	0.74
06292	Bromomethane	74-83-9	N.D.	2	0.74
06292	2-Butanone	78-93-3	7	3	0.74
06292	Carbon Disulfide	75-15-0	N.D.	0.9	0.74
06292	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.74
06292	Chlorobenzene	108-90-7	N.D.	0.9	0.74
06292	Chloroethane	75-00-3	N.D.	2	0.74
06292	Chloroform	67-66-3	N.D.	0.9	0.74
06292	Chloromethane	74-87-3	N.D.	2	0.74
06292	Dibromochloromethane	124-48-1	N.D.	0.9	0.74
06292	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.74
06292	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.74
06292	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.74
06292	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.74
06292	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.74
06292	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.74
06292	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.74
06292	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.74
06292	Ethylbenzene	100-41-4	N.D.	0.9	0.74
06292	2-Hexanone	591-78-6	N.D.	3	0.74
06292	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.74
06292	Methylene Chloride	75-09-2	N.D.	2	0.74
06292	Styrene	100-42-5	N.D.	0.9	0.74
06292	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.74
06292	Tetrachloroethene	127-18-4	N.D.	0.9	0.74
06292	Toluene	108-88-3	N.D.	0.9	0.74
06292	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.74
06292	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.74
06292	Trichloroethene	79-01-6	N.D.	0.9	0.74
06292	Vinyl Chloride	75-01-4	N.D.	0.9	0.74
06292	Xylene (Total)	1330-20-7	N.D.	0.9	0.74
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
04688	Acenaphthene	83-32-9	N.D.	39	1
04688	Acenaphthylene	208-96-8	N.D.	39	1
04688	Anthracene	120-12-7	N.D.	39	1
04688	Benzo(a)anthracene	56-55-3	N.D.	39	1
04688	Benzo(a)pyrene	50-32-8	N.D.	39	1
04688	Benzo(b)fluoranthene	205-99-2	N.D.	39	1
04688	Benzo(g,h,i)perylene	191-24-2	N.D.	39	1
04688	Benzo(k)fluoranthene	207-08-9	N.D.	39	1
04688	4-Bromophenyl-phenylether	101-55-3	N.D.	39	1
04688	Butylbenzylphthalate	85-68-7	N.D.	77	1
04688	Di-n-butylphthalate	84-74-2	N.D.	77	1
04688	Carbazole	86-74-8	N.D.	39	1

Lancaster Laboratories Sample No. SW 5730899

 Group No. 1154670  
WV

 Green Valley 3 Composite Soil Sample  
Old Athens Turnpike

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 Submitted: 07/23/2009 08:45  
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Discard: 09/21/2009

 Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

GRV03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
04688	4-Chloro-3-methylphenol	59-50-7	N.D.	77	1
04688	4-Chloroaniline	106-47-8	N.D.	77	1
04688	bis(2-Chloroethoxy)methane	111-91-1	N.D.	39	1
04688	bis(2-Chloroethyl)ether	111-44-4	N.D.	39	1
04688	2-Chloronaphthalene	91-58-7	N.D.	39	1
04688	2-Chlorophenol	95-57-8	N.D.	39	1
04688	4-Chlorophenyl-phenylether	7005-72-3	N.D.	39	1
04688	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	39	1
04688	Chrysene	218-01-9	N.D.	39	1
04688	Dibenz(a,h)anthracene	53-70-3	N.D.	39	1
04688	Dibenzofuran	132-64-9	N.D.	39	1
04688	1,2-Dichlorobenzene	95-50-1	N.D.	39	1
04688	1,3-Dichlorobenzene	541-73-1	N.D.	39	1
04688	1,4-Dichlorobenzene	106-46-7	N.D.	39	1
04688	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
04688	2,4-Dichlorophenol	120-83-2	N.D.	39	1
04688	Diethylphthalate	84-66-2	N.D.	77	1
04688	2,4-Dimethylphenol	105-67-9	N.D.	77	1
04688	Dimethylphthalate	131-11-3	N.D.	77	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1
04688	2,4-Dinitrophenol	51-28-5	N.D.	770	1
04688	2,4-Dinitrotoluene	121-14-2	N.D.	77	1
04688	2,6-Dinitrotoluene	606-20-2	N.D.	39	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	77	1
04688	Fluoranthene	206-44-0	N.D.	39	1
04688	Fluorene	86-73-7	N.D.	39	1
04688	Hexachlorobenzene	118-74-1	N.D.	39	1
04688	Hexachlorobutadiene	87-68-3	N.D.	77	1
04688	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
04688	Hexachloroethane	67-72-1	N.D.	39	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	39	1
04688	Isophorone	78-59-1	N.D.	39	1
04688	2-Methylnaphthalene	91-57-6	N.D.	39	1
04688	2-Methylphenol	95-48-7	N.D.	77	1
04688	4-Methylphenol	106-44-5	N.D.	77	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
04688	Naphthalene	91-20-3	N.D.	39	1
04688	2-Nitroaniline	88-74-4	N.D.	39	1
04688	3-Nitroaniline	99-09-2	N.D.	77	1
04688	4-Nitroaniline	100-01-6	N.D.	77	1
04688	Nitrobenzene	98-95-3	N.D.	39	1
04688	2-Nitrophenol	88-75-5	N.D.	39	1
04688	4-Nitrophenol	100-02-7	N.D.	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	N.D.	39	1
04688	N-Nitrosodiphenylamine	86-30-6	N.D.	39	1

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
04688	Di-n-octylphthalate	117-84-0	N.D.	77	1
04688	Pentachlorophenol	87-86-5	N.D.	190	1
04688	Phenanthrene	85-01-8	N.D.	39	1
04688	Phenol	108-95-2	N.D.	39	1
04688	Pyrene	129-00-0	N.D.	39	1
04688	1,2,4-Trichlorobenzene	120-82-1	N.D.	39	1
04688	2,4,5-Trichlorophenol	95-95-4	N.D.	77	1
04688	2,4,6-Trichlorophenol	88-06-2	N.D.	39	1
<b>SW-846 8151A</b>	<b>Herbicides</b>		<b>ug/kg</b>	<b>ug/kg</b>	
01865	2,4-D	94-75-7	N.D.	14	1
01865	Dalapon	75-99-0	N.D.	35	1
01865	2,4-DB	94-82-6	N.D.	7.2	1
01865	Dicamba	1918-00-9	N.D.	4.6	1
01865	Dinoseb	88-85-7	N.D.	9.3	1
01865	2,4-DP (Dichloroprop)	120-36-5	N.D.	9.3	1
01865	MCPA	94-74-6	N.D.	880	1
01865	MCPP (Mecoprop)	93-65-2	N.D.	870	1
01865	Pentachlorophenol	87-86-5	N.D.	0.38	1
01865	2,4,5-T	93-76-5	N.D.	0.95	1
01865	2,4,5-TP	93-72-1	N.D.	0.87	1
<b>SW-846 8081A</b>	<b>Pesticides/PCBs</b>		<b>ug/kg</b>	<b>ug/kg</b>	
06001	Aldrin	309-00-2	N.D.	0.38	1
06001	Alpha BHC	319-84-6	N.D.	0.20	1
06001	Beta BHC	319-85-7	N.D.	0.20	1
06001	Gamma BHC - Lindane	58-89-9	N.D.	0.20	1
06001	Chlordane	57-74-9	N.D.	4.6	1
06001	p,p-DDD	72-54-8	N.D.	0.38	1
06001	p,p-DDE	72-55-9	N.D.	0.38	1
06001	p,p-DDT	50-29-3	N.D.	0.38	1
06001	Delta BHC	319-86-8	N.D.	0.36	1
06001	Dieldrin	60-57-1	N.D.	0.38	1
06001	Endosulfan I	959-98-8	N.D.	0.25	1
06001	Endosulfan II	33213-65-9	N.D.	0.38	1
06001	Endosulfan Sulfate	1031-07-8	N.D.	0.38	1
06001	Endrin	72-20-8	N.D.	0.38	1
06001	Endrin Aldehyde	7421-93-4	N.D.	0.38	1
06001	Heptachlor	76-44-8	N.D.	0.20	1
06001	Heptachlor Epoxide	1024-57-3	N.D.	0.20	1
06001	Kepone	143-50-0	N.D.	2.7	1
06001	Methoxychlor	72-43-5	N.D.	2.0	1
06001	Toxaphene	8001-35-2	N.D.	13	1

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8082</b>	<b>Pesticides/PCBs</b>		<b>ug/kg</b>	<b>ug/kg</b>	
02033	PCB-1016	12674-11-2	N.D.	3.82	1
02033	PCB-1221	11104-28-2	N.D.	4.63	1
02033	PCB-1232	11141-16-5	N.D.	6.14	1
02033	PCB-1242	53469-21-9	N.D.	3.82	1
02033	PCB-1248	12672-29-6	N.D.	3.82	1
02033	PCB-1254	11097-69-1	N.D.	3.82	1
02033	PCB-1260	11096-82-5	N.D.	3.82	1
<b>SW-846 8015B modified GC Extractable TPH</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06631	C13 - C22	n.a.	N.D.	4.6	1
06631	C23 - C40	n.a.	N.D.	4.6	1
06631	Total TPH	n.a.	N.D.	4.6	1
<b>SW-846 6010B</b>	<b>Metals</b>		<b>mg/kg</b>	<b>mg/kg</b>	
01643	Aluminum	7429-90-5	17,100	5.66	1
06944	Antimony	7440-36-0	N.D.	1.12	1
06935	Arsenic	7440-38-2	2.87	1.07	1
06946	Barium	7440-39-3	137	0.0450	1
06947	Beryllium	7440-41-7	1.24	0.0765	1
06949	Cadmium	7440-43-9	0.909	0.157	1
01650	Calcium	7440-70-2	7,550	6.90	1
06951	Chromium	7440-47-3	30.7	0.664	1
06952	Cobalt	7440-48-4	21.2	0.214	1
06953	Copper	7440-50-8	36.6	0.225	1
01654	Iron	7439-89-6	43,900	26.5	5
06955	Lead	7439-92-1	13.4	0.675	1
01657	Magnesium	7439-95-4	5,970	2.86	1
06958	Manganese	7439-96-5	850	0.0630	1
06961	Nickel	7440-02-0	34.4	0.202	1
01662	Potassium	7440-09-7	1,410	14.7	1
06936	Selenium	7782-49-2	1.80	1.10	1
06966	Silver	7440-22-4	N.D.	0.202	1
01667	Sodium	7440-23-5	102	42.0	1
06925	Thallium	7440-28-0	N.D.	1.63	1
06971	Vanadium	7440-62-2	43.5	0.191	1
06972	Zinc	7440-66-6	75.3	0.742	1
<b>SW-846 7471A</b>	<b>Metals</b>		<b>mg/kg</b>	<b>mg/kg</b>	
00159	Mercury	7439-97-6	0.0596 J	0.0127	1
<b>EPA 365.1</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	
05893	Total Phosphorus as P (solid)	7723-14-0	227	11.6	1
<b>SM20 4500NH3 B/C modified</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	

**Lancaster Laboratories Sample No. SW 5730899**
**Group No. 1154670  
WV**
**Green Valley 3 Composite Soil Sample  
Old Athens Turnpike**

Collected: 07/22/2009 11:52 by JK

Account Number: 11716

 Submitted: 07/23/2009 08:45  
 Reported: 08/21/2009 at 16:53  
 Discard: 09/21/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

GRV03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SM20 4500NH3 B/C modified</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	
00573	Ammonia Nitrogen The reporting limit(s) for the analyte(s) above was raised due to matrix interference.	7664-41-7	N.D.	59.1	3
<b>SW-846 9045C modified</b>	<b>Wet Chemistry</b>		<b>Std. Units</b>	<b>Std. Units</b>	
00394	pH	n.a.	6.95	0.0100	1
<b>SM20 2540 G</b>	<b>Wet Chemistry</b>		<b>%</b>	<b>%</b>	
00111	Moisture "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	13.7	0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06292	TCL by 8260 (soil)	SW-846 8260B	1	X092091AA	07/28/2009 12:57	Chelsea B Eastep	0.74
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200920518752	07/22/2009 11:52	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200920518752	07/22/2009 11:52	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035A	1	200920518750	07/22/2009 11:52	Client Supplied	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	09205SLA026	07/26/2009 19:54	William T Parker	1
00381	BNA Soil Extraction	SW-846 3550B	1	09205SLA026	07/24/2009 13:10	Doreen K Robles	1
01865	Herbicides in Soils	SW-846 8151A	1	092090019A	07/30/2009 23:50	John W Perkins	1
06001	App. IX OC Pesticides in Soils	SW-846 8081A	1	092080012A	07/31/2009 16:37	Lindsey K Lafferty	1
02033	PCBs in Soil	SW-846 8082	1	092080027A	08/01/2009 16:46	Jamie L Brillhart	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	1	092080027A	07/28/2009 09:00	Deborah M Zimmerman	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	2	092080012A	07/27/2009 21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	092090019A	07/29/2009 10:30	Olivia I Santiago	1

Lancaster Laboratories Sample No. SW 5730899

 Group No. 1154670  
WV

 Green Valley 3 Composite Soil Sample  
Old Athens Turnpike

Collected: 07/22/2009 11:52 by JK

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 Submitted: 07/23/2009 08:45  
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Discard: 09/21/2009

 Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

GRV03

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06631	DRO/ORO in Soil	SW-846 8015B modified	1	092060007A	07/28/2009 02:10	Robert Brown	1
07024	DRO Alternate Soil Extraction	SW-846 3550B	1	092060007A	07/26/2009 23:00	Patricia L Foreman	1
01643	Aluminum	SW-846 6010B	1	092055708002	07/27/2009 10:49	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
06935	Arsenic	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	092055708002	07/28/2009 12:45	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	092055708002	07/27/2009 10:49	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	092055708002	07/28/2009 12:45	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	092055708002	07/28/2009 02:46	Tara L Snyder	5
06955	Lead	SW-846 6010B	1	092055708002	07/28/2009 12:45	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	092055708002	07/27/2009 10:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	092055708002	07/27/2009 10:49	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	092055708002	07/28/2009 12:45	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	092055708002	07/27/2009 10:49	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	092055708002	07/28/2009 12:45	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	092055708002	07/28/2009 02:41	Tara L Snyder	1
00159	Mercury	SW-846 7471A	1	092055711002	07/27/2009 16:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	092055708002	07/24/2009 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	092055711002	07/25/2009 01:20	Annamaria Stipkovits	1
05893	Total Phosphorus as P (solid)	EPA 365.1	1	09206109201A	08/04/2009 19:13	Venia B McFadden	1
08262	Total Phos as P Prep (solid)	EPA 365.1	1	09206109201A	07/25/2009 16:30	Carolyn M Mastropietro	1
00573	Ammonia Nitrogen	SM20 4500NH3 B/C modified	1	09208057301A	07/27/2009 19:00	Luz M Groff	3
00394	pH	SW-846 9045C modified	1	09205039401B	07/24/2009 21:30	Luz M Groff	1
00111	Moisture	SM20 2540 G	1	09205820004B	07/24/2009 15:18	Scott W Freisher	1

**Lancaster Laboratories Sample No. SW 5730900**
**Group No. 1154670**
**Athens Borrow 1 Composite Soil Sample  
Old Athens Turnpike**
**WV**

Collected: 07/22/2009 14:40 by JK

Account Number: 11716

Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

Reported: 08/21/2009 at 16:53

110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

ATB01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8260B</b>	<b>GC/MS Volatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
06292	Acetone	67-64-1	97	7	0.9
06292	Benzene	71-43-2	N.D.	0.5	0.9
06292	Bromodichloromethane	75-27-4	N.D.	1	0.9
06292	Bromoform	75-25-2	N.D.	1	0.9
06292	Bromomethane	74-83-9	N.D.	2	0.9
06292	2-Butanone	78-93-3	8 J	4	0.9
06292	Carbon Disulfide	75-15-0	N.D.	1	0.9
06292	Carbon Tetrachloride	56-23-5	N.D.	1	0.9
06292	Chlorobenzene	108-90-7	N.D.	1	0.9
06292	Chloroethane	75-00-3	N.D.	2	0.9
06292	Chloroform	67-66-3	N.D.	1	0.9
06292	Chloromethane	74-87-3	N.D.	2	0.9
06292	Dibromochloromethane	124-48-1	N.D.	1	0.9
06292	1,1-Dichloroethane	75-34-3	N.D.	1	0.9
06292	1,2-Dichloroethane	107-06-2	N.D.	1	0.9
06292	1,1-Dichloroethene	75-35-4	N.D.	1	0.9
06292	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.9
06292	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.9
06292	1,2-Dichloropropane	78-87-5	N.D.	1	0.9
06292	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.9
06292	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.9
06292	Ethylbenzene	100-41-4	N.D.	1	0.9
06292	2-Hexanone	591-78-6	N.D.	3	0.9
06292	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.9
06292	Methylene Chloride	75-09-2	N.D.	2	0.9
06292	Styrene	100-42-5	N.D.	1	0.9
06292	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.9
06292	Tetrachloroethene	127-18-4	N.D.	1	0.9
06292	Toluene	108-88-3	N.D.	1	0.9
06292	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.9
06292	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.9
06292	Trichloroethene	79-01-6	N.D.	1	0.9
06292	Vinyl Chloride	75-01-4	N.D.	1	0.9
06292	Xylene (Total)	1330-20-7	N.D.	1	0.9
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
04688	Acenaphthene	83-32-9	N.D.	40	1
04688	Acenaphthylene	208-96-8	N.D.	40	1
04688	Anthracene	120-12-7	N.D.	40	1
04688	Benzo(a)anthracene	56-55-3	N.D.	40	1
04688	Benzo(a)pyrene	50-32-8	N.D.	40	1
04688	Benzo(b)fluoranthene	205-99-2	N.D.	40	1
04688	Benzo(g,h,i)perylene	191-24-2	N.D.	40	1
04688	Benzo(k)fluoranthene	207-08-9	N.D.	40	1
04688	4-Bromophenyl-phenylether	101-55-3	N.D.	40	1
04688	Butylbenzylphthalate	85-68-7	N.D.	79	1
04688	Di-n-butylphthalate	84-74-2	N.D.	79	1
04688	Carbazole	86-74-8	N.D.	40	1

Lancaster Laboratories Sample No. SW 5730900

 Group No. 1154670  
WV

 Athens Borrow 1 Composite Soil Sample  
Old Athens Turnpike

Collected: 07/22/2009 14:40 by JK

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Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

Reported: 08/21/2009 at 16:53

110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

ATB01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846</b>	<b>8270C</b>				
	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
04688	4-Chloro-3-methylphenol	59-50-7	N.D.	79	1
04688	4-Chloroaniline	106-47-8	N.D.	79	1
04688	bis(2-Chloroethoxy)methane	111-91-1	N.D.	40	1
04688	bis(2-Chloroethyl)ether	111-44-4	N.D.	40	1
04688	2-Chloronaphthalene	91-58-7	N.D.	40	1
04688	2-Chlorophenol	95-57-8	N.D.	40	1
04688	4-Chlorophenyl-phenylether	7005-72-3	N.D.	40	1
04688	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	40	1
04688	Chrysene	218-01-9	N.D.	40	1
04688	Dibenz(a,h)anthracene	53-70-3	N.D.	40	1
04688	Dibenzofuran	132-64-9	N.D.	40	1
04688	1,2-Dichlorobenzene	95-50-1	N.D.	40	1
04688	1,3-Dichlorobenzene	541-73-1	N.D.	40	1
04688	1,4-Dichlorobenzene	106-46-7	N.D.	40	1
04688	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
04688	2,4-Dichlorophenol	120-83-2	N.D.	40	1
04688	Diethylphthalate	84-66-2	N.D.	79	1
04688	2,4-Dimethylphenol	105-67-9	N.D.	79	1
04688	Dimethylphthalate	131-11-3	N.D.	79	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	200	1
04688	2,4-Dinitrophenol	51-28-5	N.D.	790	1
04688	2,4-Dinitrotoluene	121-14-2	N.D.	79	1
04688	2,6-Dinitrotoluene	606-20-2	N.D.	40	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	79	1
04688	Fluoranthene	206-44-0	N.D.	40	1
04688	Fluorene	86-73-7	N.D.	40	1
04688	Hexachlorobenzene	118-74-1	N.D.	40	1
04688	Hexachlorobutadiene	87-68-3	N.D.	79	1
04688	Hexachlorocyclopentadiene	77-47-4	N.D.	200	1
04688	Hexachloroethane	67-72-1	N.D.	40	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	40	1
04688	Isophorone	78-59-1	N.D.	40	1
04688	2-Methylnaphthalene	91-57-6	N.D.	40	1
04688	2-Methylphenol	95-48-7	N.D.	79	1
04688	4-Methylphenol	106-44-5	N.D.	79	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
04688	Naphthalene	91-20-3	N.D.	40	1
04688	2-Nitroaniline	88-74-4	N.D.	40	1
04688	3-Nitroaniline	99-09-2	N.D.	79	1
04688	4-Nitroaniline	100-01-6	N.D.	79	1
04688	Nitrobenzene	98-95-3	N.D.	40	1
04688	2-Nitrophenol	88-75-5	N.D.	40	1
04688	4-Nitrophenol	100-02-7	N.D.	200	1
04688	N-Nitroso-di-n-propylamine	621-64-7	N.D.	40	1
04688	N-Nitrosodiphenylamine	86-30-6	N.D.	40	1

Lancaster Laboratories Sample No. SW 5730900

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Norfolk Southern Railway Co

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110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

ATB01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
04688	Di-n-octylphthalate	117-84-0	N.D.	79	1
04688	Pentachlorophenol	87-86-5	N.D.	200	1
04688	Phenanthrene	85-01-8	N.D.	40	1
04688	Phenol	108-95-2	N.D.	40	1
04688	Pyrene	129-00-0	N.D.	40	1
04688	1,2,4-Trichlorobenzene	120-82-1	N.D.	40	1
04688	2,4,5-Trichlorophenol	95-95-4	N.D.	79	1
04688	2,4,6-Trichlorophenol	88-06-2	N.D.	40	1
<b>SW-846 8151A</b>	<b>Herbicides</b>		<b>ug/kg</b>	<b>ug/kg</b>	
01865	2,4-D	94-75-7	N.D.	14	1
01865	Dalapon	75-99-0	51	36	1
01865	2,4-DB	94-82-6	N.D.	7.4	1
01865	Dicamba	1918-00-9	N.D.	4.8	1
01865	Dinoseb	88-85-7	N.D.	9.5	1
01865	2,4-DP (Dichloroprop)	120-36-5	N.D.	9.5	1
01865	MCPA	94-74-6	N.D.	910	1
01865	MCPP (Mecoprop)	93-65-2	N.D.	890	1
01865	Pentachlorophenol	87-86-5	N.D.	0.39	1
01865	2,4,5-T	93-76-5	N.D.	0.98	1
01865	2,4,5-TP	93-72-1	N.D.	0.89	1
<b>SW-846 8081A</b>	<b>Pesticides/PCBs</b>		<b>ug/kg</b>	<b>ug/kg</b>	
06001	Aldrin	309-00-2	N.D.	0.39	1
06001	Alpha BHC	319-84-6	N.D.	0.20	1
06001	Beta BHC	319-85-7	N.D.	0.20	1
06001	Gamma BHC - Lindane	58-89-9	N.D.	0.20	1
06001	Chlordane	57-74-9	N.D.	4.8	1
06001	p,p-DDD	72-54-8	N.D.	0.39	1
06001	p,p-DDE	72-55-9	N.D.	0.39	1
06001	p,p-DDT	50-29-3	N.D.	0.39	1
06001	Delta BHC	319-86-8	N.D.	0.37	1
06001	Dieldrin	60-57-1	N.D.	0.39	1
06001	Endosulfan I	959-98-8	N.D.	0.26	1
06001	Endosulfan II	33213-65-9	N.D.	0.39	1
06001	Endosulfan Sulfate	1031-07-8	N.D.	0.39	1
06001	Endrin	72-20-8	N.D.	0.39	1
06001	Endrin Aldehyde	7421-93-4	N.D.	0.39	1
06001	Heptachlor	76-44-8	N.D.	0.20	1
06001	Heptachlor Epoxide	1024-57-3	N.D.	0.20	1
06001	Kepone	143-50-0	N.D.	2.7	1
06001	Methoxychlor	72-43-5	N.D.	2.0	1
06001	Toxaphene	8001-35-2	N.D.	13	1

Lancaster Laboratories Sample No. SW 5730900

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ATB01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8082</b>	<b>Pesticides/PCBs</b>		<b>ug/kg</b>	<b>ug/kg</b>	
02033	PCB-1016	12674-11-2	N.D.	3.93	1
02033	PCB-1221	11104-28-2	N.D.	4.77	1
02033	PCB-1232	11141-16-5	N.D.	6.32	1
02033	PCB-1242	53469-21-9	N.D.	3.93	1
02033	PCB-1248	12672-29-6	N.D.	3.93	1
02033	PCB-1254	11097-69-1	N.D.	3.93	1
02033	PCB-1260	11096-82-5	N.D.	3.93	1
<b>SW-846 8015B modified GC Extractable TPH</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06631	C13 - C22	n.a.	N.D.	4.8	1
06631	C23 - C40	n.a.	130	4.8	1
06631	Total TPH	n.a.	130	4.8	1
<b>SW-846 6010B</b>	<b>Metals</b>		<b>mg/kg</b>	<b>mg/kg</b>	
01643	Aluminum	7429-90-5	19,600	5.76	1
06944	Antimony	7440-36-0	N.D.	1.15	1
06935	Arsenic	7440-38-2	2.18	1.09	1
06946	Barium	7440-39-3	134	0.0458	1
06947	Beryllium	7440-41-7	1.51	0.0779	1
06949	Cadmium	7440-43-9	0.866	0.160	1
01650	Calcium	7440-70-2	550	7.03	1
06951	Chromium	7440-47-3	24.9	0.676	1
06952	Cobalt	7440-48-4	38.5	0.218	1
06953	Copper	7440-50-8	27.0	0.229	1
01654	Iron	7439-89-6	45,500	27.0	5
06955	Lead	7439-92-1	11.4	0.688	1
01657	Magnesium	7439-95-4	2,040	2.91	1
06958	Manganese	7439-96-5	1,280	0.321	5
06961	Nickel	7440-02-0	41.1	0.206	1
01662	Potassium	7440-09-7	2,560	15.0	1
06936	Selenium	7782-49-2	2.12	1.12	1
06966	Silver	7440-22-4	N.D.	0.206	1
01667	Sodium	7440-23-5	75.7	42.7	1
06925	Thallium	7440-28-0	N.D.	1.66	1
06971	Vanadium	7440-62-2	32.1	0.195	1
06972	Zinc	7440-66-6	89.1	0.756	1
<b>SW-846 7471A</b>	<b>Metals</b>		<b>mg/kg</b>	<b>mg/kg</b>	
00159	Mercury	7439-97-6	N.D.	0.0132	1
<b>EPA 365.1</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	
05893	Total Phosphorus as P (solid)	7723-14-0	412	23.3	2
<b>SM20 4500NH3 B/C modified</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	

Lancaster Laboratories Sample No. SW 5730900

Group No. 1154670

 Athens Borrow 1 Composite Soil Sample  
Old Athens Turnpike

WV

Collected: 07/22/2009 14:40 by JK

Account Number: 11716

Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

Reported: 08/21/2009 at 16:53

110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

ATB01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
SM20 4500NH3 B/C modified	Wet Chemistry		mg/kg	mg/kg	
00573	Ammonia Nitrogen The reporting limit(s) for the analyte(s) above was raised due to matrix interference.	7664-41-7	N.D.	60.8	3
SW-846 9045C modified	Wet Chemistry		Std. Units	Std. Units	
00394	pH	n.a.	5.45	0.0100	1
SM20 2540 G	Wet Chemistry		%	%	
00111	Moisture "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	16.1	0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06292	TCL by 8260 (soil)	SW-846 8260B	1	X092091AA	07/28/2009 13:21	Chelsea B Eastep	0.9
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200920518752	07/22/2009 14:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200920518752	07/22/2009 14:40	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035A	1	200920518750	07/22/2009 14:40	Client Supplied	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	09205SLA026	07/26/2009 20:17	William T Parker	1
00381	BNA Soil Extraction	SW-846 3550B	1	09205SLA026	07/24/2009 13:10	Doreen K Robles	1
01865	Herbicides in Soils	SW-846 8151A	1	092090019A	07/31/2009 10:27	John W Perkins	1
06001	App. IX OC Pesticides in Soils	SW-846 8081A	1	092080012A	07/31/2009 16:48	Lindsey K Lafferty	1
02033	PCBs in Soil	SW-846 8082	1	092080027A	08/01/2009 16:58	Jamie L Brillhart	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	1	092080027A	07/28/2009 09:00	Deborah M Zimmerman	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	2	092080012A	07/27/2009 21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	092090019A	07/29/2009 10:30	Olivia I Santiago	1

**Lancaster Laboratories Sample No. SW 5730900**
**Group No. 1154670  
WV**
**Athens Borrow 1 Composite Soil Sample  
Old Athens Turnpike**

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Account Number: 11716

 Submitted: 07/23/2009 08:45  
 Reported: 08/21/2009 at 16:53  
 Discard: 09/21/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

ATB01

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
06631	DRO/ORO in Soil	SW-846 8015B modified	1	092060007A	07/28/2009	02:35	Robert Brown	1
07024	DRO Alternate Soil Extraction	SW-846 3550B	1	092060007A	07/26/2009	23:00	Patricia L Foreman	1
01643	Aluminum	SW-846 6010B	1	092055708002	07/27/2009	10:54	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
06935	Arsenic	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	092055708002	07/28/2009	12:49	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	092055708002	07/27/2009	10:54	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	092055708002	07/28/2009	12:49	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	092055708002	07/28/2009	02:55	Tara L Snyder	5
06955	Lead	SW-846 6010B	1	092055708002	07/28/2009	12:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	092055708002	07/27/2009	10:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	092055708002	07/28/2009	02:55	Tara L Snyder	5
06961	Nickel	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	092055708002	07/27/2009	10:54	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	092055708002	07/28/2009	12:49	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	092055708002	07/27/2009	10:54	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	092055708002	07/28/2009	12:49	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	092055708002	07/28/2009	02:51	Tara L Snyder	1
00159	Mercury	SW-846 7471A	1	092055711002	07/27/2009	16:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	092055708002	07/24/2009	20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	092055711002	07/25/2009	01:20	Annamaria Stipkovits	1
05893	Total Phosphorus as P (solid)	EPA 365.1	1	09206109201A	08/04/2009	20:42	Venia B McFadden	2
08262	Total Phos as P Prep (solid)	EPA 365.1	1	09206109201A	07/25/2009	16:30	Carolyn M Mastropietro	1
00573	Ammonia Nitrogen	SM20 4500NH3 B/C modified	1	09208057301A	07/27/2009	19:00	Luz M Groff	3
00394	pH	SW-846 9045C modified	1	09205039401B	07/24/2009	21:30	Luz M Groff	1
00111	Moisture	SM20 2540 G	1	09205820004B	07/24/2009	15:18	Scott W Freisher	1

Lancaster Laboratories Sample No. SW 5730901

 Group No. 1154670  
WV

 Athens Borrow 2 Composite Soil Sample  
Old Athens Turnpike

Collected: 07/22/2009 14:55 by JK

Account Number: 11716

 Submitted: 07/23/2009 08:45  
Reported: 08/21/2009 at 16:53  
Discard: 09/21/2009

 Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

ATB02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8260B</b>	<b>GC/MS Volatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
06292	Acetone	67-64-1	140	6	0.76
06292	Benzene	71-43-2	N.D.	0.4	0.76
06292	Bromodichloromethane	75-27-4	N.D.	0.9	0.76
06292	Bromoform	75-25-2	N.D.	0.9	0.76
06292	Bromomethane	74-83-9	N.D.	2	0.76
06292	2-Butanone	78-93-3	13	3	0.76
06292	Carbon Disulfide	75-15-0	N.D.	0.9	0.76
06292	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.76
06292	Chlorobenzene	108-90-7	N.D.	0.9	0.76
06292	Chloroethane	75-00-3	N.D.	2	0.76
06292	Chloroform	67-66-3	N.D.	0.9	0.76
06292	Chloromethane	74-87-3	N.D.	2	0.76
06292	Dibromochloromethane	124-48-1	N.D.	0.9	0.76
06292	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.76
06292	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.76
06292	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.76
06292	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.76
06292	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.76
06292	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.76
06292	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.76
06292	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.76
06292	Ethylbenzene	100-41-4	N.D.	0.9	0.76
06292	2-Hexanone	591-78-6	N.D.	3	0.76
06292	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.76
06292	Methylene Chloride	75-09-2	N.D.	2	0.76
06292	Styrene	100-42-5	N.D.	0.9	0.76
06292	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.76
06292	Tetrachloroethene	127-18-4	N.D.	0.9	0.76
06292	Toluene	108-88-3	N.D.	0.9	0.76
06292	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.76
06292	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.76
06292	Trichloroethene	79-01-6	N.D.	0.9	0.76
06292	Vinyl Chloride	75-01-4	N.D.	0.9	0.76
06292	Xylene (Total)	1330-20-7	N.D.	0.9	0.76
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
04688	Acenaphthene	83-32-9	N.D.	38	1
04688	Acenaphthylene	208-96-8	N.D.	38	1
04688	Anthracene	120-12-7	N.D.	38	1
04688	Benzo (a) anthracene	56-55-3	N.D.	38	1
04688	Benzo (a) pyrene	50-32-8	N.D.	38	1
04688	Benzo (b) fluoranthene	205-99-2	N.D.	38	1
04688	Benzo (g, h, i) perylene	191-24-2	N.D.	38	1
04688	Benzo (k) fluoranthene	207-08-9	N.D.	38	1
04688	4-Bromophenyl-phenylether	101-55-3	N.D.	38	1
04688	Butylbenzylphthalate	85-68-7	N.D.	76	1
04688	Di-n-butylphthalate	84-74-2	N.D.	76	1
04688	Carbazole	86-74-8	N.D.	38	1

Lancaster Laboratories Sample No. SW 5730901

 Group No. 1154670  
WV

 Athens Borrow 2 Composite Soil Sample  
Old Athens Turnpike

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Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

Reported: 08/21/2009 at 16:53

110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

ATB02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
SW-846	8270C	GC/MS Semivolatiles	ug/kg	ug/kg	
04688	4-Chloro-3-methylphenol	59-50-7	N.D.	76	1
04688	4-Chloroaniline	106-47-8	N.D.	76	1
04688	bis(2-Chloroethoxy)methane	111-91-1	N.D.	38	1
04688	bis(2-Chloroethyl)ether	111-44-4	N.D.	38	1
04688	2-Chloronaphthalene	91-58-7	N.D.	38	1
04688	2-Chlorophenol	95-57-8	N.D.	38	1
04688	4-Chlorophenyl-phenylether	7005-72-3	N.D.	38	1
04688	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	38	1
04688	Chrysene	218-01-9	N.D.	38	1
04688	Dibenz(a,h)anthracene	53-70-3	N.D.	38	1
04688	Dibenzofuran	132-64-9	N.D.	38	1
04688	1,2-Dichlorobenzene	95-50-1	N.D.	38	1
04688	1,3-Dichlorobenzene	541-73-1	N.D.	38	1
04688	1,4-Dichlorobenzene	106-46-7	N.D.	38	1
04688	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
04688	2,4-Dichlorophenol	120-83-2	N.D.	38	1
04688	Diethylphthalate	84-66-2	N.D.	76	1
04688	2,4-Dimethylphenol	105-67-9	N.D.	76	1
04688	Dimethylphthalate	131-11-3	N.D.	76	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1
04688	2,4-Dinitrophenol	51-28-5	N.D.	760	1
04688	2,4-Dinitrotoluene	121-14-2	N.D.	76	1
04688	2,6-Dinitrotoluene	606-20-2	N.D.	38	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	76	1
04688	Fluoranthene	206-44-0	N.D.	38	1
04688	Fluorene	86-73-7	N.D.	38	1
04688	Hexachlorobenzene	118-74-1	N.D.	38	1
04688	Hexachlorobutadiene	87-68-3	N.D.	76	1
04688	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
04688	Hexachloroethane	67-72-1	N.D.	38	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	38	1
04688	Isophorone	78-59-1	N.D.	38	1
04688	2-Methylnaphthalene	91-57-6	N.D.	38	1
04688	2-Methylphenol	95-48-7	N.D.	76	1
04688	4-Methylphenol	106-44-5	N.D.	76	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
04688	Naphthalene	91-20-3	N.D.	38	1
04688	2-Nitroaniline	88-74-4	N.D.	38	1
04688	3-Nitroaniline	99-09-2	N.D.	76	1
04688	4-Nitroaniline	100-01-6	N.D.	76	1
04688	Nitrobenzene	98-95-3	N.D.	38	1
04688	2-Nitrophenol	88-75-5	N.D.	38	1
04688	4-Nitrophenol	100-02-7	N.D.	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	N.D.	38	1
04688	N-Nitrosodiphenylamine	86-30-6	N.D.	38	1

Lancaster Laboratories Sample No. SW 5730901

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Roanoke VA 24042-0013

ATB02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8270C</b>	<b>GC/MS Semivolatiles</b>		<b>ug/kg</b>	<b>ug/kg</b>	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
04688	Di-n-octylphthalate	117-84-0	N.D.	76	1
04688	Pentachlorophenol	87-86-5	N.D.	190	1
04688	Phenanthrene	85-01-8	N.D.	38	1
04688	Phenol	108-95-2	N.D.	38	1
04688	Pyrene	129-00-0	N.D.	38	1
04688	1,2,4-Trichlorobenzene	120-82-1	N.D.	38	1
04688	2,4,5-Trichlorophenol	95-95-4	N.D.	76	1
04688	2,4,6-Trichlorophenol	88-06-2	N.D.	38	1
<b>SW-846 8151A</b>	<b>Herbicides</b>		<b>ug/kg</b>	<b>ug/kg</b>	
01865	2,4-D	94-75-7	N.D.	14	1
01865	Dalapon	75-99-0	42	34	1
01865	2,4-DB	94-82-6	15	7.1	1
01865	Dicamba	1918-00-9	N.D.	4.6	1
01865	Dinoseb	88-85-7	N.D.	9.2	1
01865	2,4-DP (Dichloroprop)	120-36-5	N.D.	9.2	1
01865	MCPA	94-74-6	N.D.	870	1
01865	MCPP (Mecoprop)	93-65-2	N.D.	860	1
01865	Pentachlorophenol	87-86-5	N.D.	0.38	1
01865	2,4,5-T	93-76-5	N.D.	0.94	1
01865	2,4,5-TP	93-72-1	N.D.	0.86	1
<b>SW-846 8081A</b>	<b>Pesticides/PCBs</b>		<b>ug/kg</b>	<b>ug/kg</b>	
06001	Aldrin	309-00-2	N.D.	0.38	1
06001	Alpha BHC	319-84-6	N.D.	0.19	1
06001	Beta BHC	319-85-7	N.D.	0.19	1
06001	Gamma BHC - Lindane	58-89-9	N.D.	0.19	1
06001	Chlordane	57-74-9	N.D.	4.6	1
06001	p,p-DDD	72-54-8	N.D.	0.38	1
06001	p,p-DDE	72-55-9	N.D.	0.38	1
06001	p,p-DDT	50-29-3	N.D.	0.38	1
06001	Delta BHC	319-86-8	N.D.	0.35	1
06001	Dieldrin	60-57-1	N.D.	0.38	1
06001	Endosulfan I	959-98-8	N.D.	0.25	1
06001	Endosulfan II	33213-65-9	N.D.	0.38	1
06001	Endosulfan Sulfate	1031-07-8	N.D.	0.38	1
06001	Endrin	72-20-8	N.D.	0.38	1
06001	Endrin Aldehyde	7421-93-4	N.D.	0.38	1
06001	Heptachlor	76-44-8	N.D.	0.19	1
06001	Heptachlor Epoxide	1024-57-3	N.D.	0.19	1
06001	Kepone	143-50-0	N.D.	2.6	1
06001	Methoxychlor	72-43-5	N.D.	1.9	1
06001	Toxaphene	8001-35-2	N.D.	13	1

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ATB02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>SW-846 8082</b>	<b>Pesticides/PCBs</b>		<b>ug/kg</b>	<b>ug/kg</b>	
02033	PCB-1016	12674-11-2	N.D.	3.78	1
02033	PCB-1221	11104-28-2	N.D.	4.58	1
02033	PCB-1232	11141-16-5	N.D.	6.06	1
02033	PCB-1242	53469-21-9	N.D.	3.78	1
02033	PCB-1248	12672-29-6	N.D.	3.78	1
02033	PCB-1254	11097-69-1	N.D.	3.78	1
02033	PCB-1260	11096-82-5	N.D.	3.78	1
<b>SW-846 8015B modified GC Extractable TPH</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06631	C13 - C22	n.a.	N.D.	4.6	1
06631	C23 - C40	n.a.	N.D.	4.6	1
06631	Total TPH	n.a.	N.D.	4.6	1
<b>SW-846 6010B</b>	<b>Metals</b>		<b>mg/kg</b>	<b>mg/kg</b>	
01643	Aluminum	7429-90-5	19,100	5.64	1
06944	Antimony	7440-36-0	N.D.	1.12	1
06935	Arsenic	7440-38-2	2.50	1.07	1
06946	Barium	7440-39-3	137	0.0449	1
06947	Beryllium	7440-41-7	1.25	0.0763	1
06949	Cadmium	7440-43-9	0.736	0.157	1
01650	Calcium	7440-70-2	610	6.88	1
06951	Chromium	7440-47-3	21.5	0.662	1
06952	Cobalt	7440-48-4	17.9	0.213	1
06953	Copper	7440-50-8	27.2	0.224	1
01654	Iron	7439-89-6	38,600	26.4	5
06955	Lead	7439-92-1	13.6	0.673	1
01657	Magnesium	7439-95-4	2,470	2.85	1
06958	Manganese	7439-96-5	842	0.0628	1
06961	Nickel	7440-02-0	38.5	0.202	1
01662	Potassium	7440-09-7	2,600	14.7	1
06936	Selenium	7782-49-2	1.94	1.10	1
06966	Silver	7440-22-4	N.D.	0.202	1
01667	Sodium	7440-23-5	79.3	41.8	1
06925	Thallium	7440-28-0	N.D.	1.63	1
06971	Vanadium	7440-62-2	28.5	0.191	1
06972	Zinc	7440-66-6	91.0	0.740	1
<b>SW-846 7471A</b>	<b>Metals</b>		<b>mg/kg</b>	<b>mg/kg</b>	
00159	Mercury	7439-97-6	N.D.	0.0127	1
<b>EPA 365.1</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	
05893	Total Phosphorus as P (solid)	7723-14-0	393	22.7	2
<b>SM20 4500NH3 B/C modified</b>	<b>Wet Chemistry</b>		<b>mg/kg</b>	<b>mg/kg</b>	

Lancaster Laboratories Sample No. SW 5730901

 Group No. 1154670  
WV

 Athens Borrow 2 Composite Soil Sample  
Old Athens Turnpike

Collected: 07/22/2009 14:55 by JK

Account Number: 11716

Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

Reported: 08/21/2009 at 16:53

110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

ATB02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
SM20 4500NH3 B/C modified	Wet Chemistry		mg/kg	mg/kg	
00573	Ammonia Nitrogen The reporting limit(s) for the analyte(s) above was raised due to matrix interference.	7664-41-7	N.D.	58.4	3
SW-846 9045C modified	Wet Chemistry		Std. Units	Std. Units	
00394	pH	n.a.	5.39	0.0100	1
SM20 2540 G	Wet Chemistry		%	%	
00111	Moisture "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	12.6	0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06292	TCL by 8260 (soil)	SW-846 8260B	1	X092091AA	07/28/2009 13:43	Chelsea B Eastep	0.76
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200920518752	07/22/2009 14:55	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200920518752	07/22/2009 14:55	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035A	1	200920518750	07/22/2009 14:55	Client Supplied	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	09205SLA026	07/26/2009 20:41	William T Parker	1
00381	BNA Soil Extraction	SW-846 3550B	1	09205SLA026	07/24/2009 13:10	Doreen K Robles	1
01865	Herbicides in Soils	SW-846 8151A	1	092090019A	07/31/2009 10:55	John W Perkins	1
06001	App. IX OC Pesticides in Soils	SW-846 8081A	1	092080012A	07/31/2009 16:59	Lindsey K Lafferty	1
02033	PCBs in Soil	SW-846 8082	1	092080027A	08/01/2009 17:10	Jamie L Brillhart	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	1	092080027A	07/28/2009 09:00	Deborah M Zimmerman	1
06006	PPL Pesticide Solid Extraction	SW-846 3550B	2	092080012A	07/27/2009 21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	092090019A	07/29/2009 10:30	Olivia I Santiago	1

Lancaster Laboratories Sample No. SW 5730901

 Group No. 1154670  
WV

 Athens Borrow 2 Composite Soil Sample  
Old Athens Turnpike

Collected: 07/22/2009 14:55 by JK

Account Number: 11716

Submitted: 07/23/2009 08:45

Norfolk Southern Railway Co

Reported: 08/21/2009 at 16:53

110 Franklin Road SE

Discard: 09/21/2009

Box 13

Roanoke VA 24042-0013

ATB02

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
06631	DRO/ORO in Soil	SW-846 8015B modified	1	092060007A	07/28/2009	02:59	Robert Brown	1
07024	DRO Alternate Soil Extraction	SW-846 3550B	1	092060007A	07/26/2009	23:00	Patricia L Foreman	1
01643	Aluminum	SW-846 6010B	1	092055708002	07/27/2009	10:58	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
06935	Arsenic	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	092055708002	07/28/2009	12:54	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	092055708002	07/27/2009	10:58	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	092055708002	07/28/2009	12:54	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	092055708002	07/28/2009	03:14	Tara L Snyder	5
06955	Lead	SW-846 6010B	1	092055708002	07/28/2009	12:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	092055708002	07/27/2009	10:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	092055708002	07/27/2009	10:58	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	092055708002	07/28/2009	12:54	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	092055708002	07/27/2009	10:58	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	092055708002	07/28/2009	12:54	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	092055708002	07/28/2009	03:09	Tara L Snyder	1
00159	Mercury	SW-846 7471A	1	092055711002	07/27/2009	16:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	092055708002	07/24/2009	20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	092055711002	07/25/2009	01:20	Annamaria Stipkovits	1
05893	Total Phosphorus as P (solid)	EPA 365.1	1	09206109201A	08/04/2009	20:43	Venia B McFadden	2
08262	Total Phos as P Prep (solid)	EPA 365.1	1	09206109201A	07/25/2009	16:30	Carolyn M Mastropietro	1
00573	Ammonia Nitrogen	SM20 4500NH3 B/C modified	1	09208057301A	07/27/2009	19:00	Luz M Groff	3
00394	pH	SW-846 9045C modified	1	09205039401B	07/24/2009	21:30	Luz M Groff	1
00111	Moisture	SM20 2540 G	1	09205820004B	07/24/2009	15:18	Scott W Freisher	1

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: X092091AA	Sample number(s): 5730897-5730901							
Acetone	N.D.	7.	ug/kg	108	124	32-209	14	30
Benzene	N.D.	0.5	ug/kg	97	98	83-116	1	30
Bromodichloromethane	N.D.	1.	ug/kg	97	100	77-117	3	30
Bromoform	N.D.	1.	ug/kg	98	101	68-111	4	30
Bromomethane	N.D.	2.	ug/kg	74	72	49-132	3	30
2-Butanone	N.D.	4.	ug/kg	94	112	53-160	17	30
Carbon Disulfide	N.D.	1.	ug/kg	91	88	67-122	3	30
Carbon Tetrachloride	N.D.	1.	ug/kg	95	96	69-122	1	30
Chlorobenzene	N.D.	1.	ug/kg	96	97	82-111	1	30
Chloroethane	N.D.	2.	ug/kg	76	74	56-129	4	30
Chloroform	N.D.	1.	ug/kg	99	101	81-119	2	30
Chloromethane	N.D.	2.	ug/kg	78	85	62-140	8	30
Dibromochloromethane	N.D.	1.	ug/kg	100	100	78-109	0	30
1,1-Dichloroethane	N.D.	1.	ug/kg	98	97	82-120	1	30
1,2-Dichloroethane	N.D.	1.	ug/kg	99	102	71-129	4	30
1,1-Dichloroethene	N.D.	1.	ug/kg	96	94	79-122	2	30
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	98	99	83-115	1	30
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	98	96	81-119	2	30
1,2-Dichloropropane	N.D.	1.	ug/kg	97	99	82-116	2	30
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	91	96	80-112	5	30
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	92	92	76-112	0	30
Ethylbenzene	N.D.	1.	ug/kg	92	93	79-110	1	30
2-Hexanone	N.D.	3.	ug/kg	86	103	53-155	18	30
4-Methyl-2-pentanone	N.D.	3.	ug/kg	84	101	56-142	18	30
Methylene Chloride	N.D.	2.	ug/kg	94	91	76-124	3	30
Styrene	N.D.	1.	ug/kg	93	91	76-108	2	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	93	106	71-123	13	30
Tetrachloroethene	N.D.	1.	ug/kg	104	105	74-112	1	30
Toluene	N.D.	1.	ug/kg	97	96	81-112	1	30
1,1,1-Trichloroethane	N.D.	1.	ug/kg	93	94	80-136	2	30
1,1,2-Trichloroethane	N.D.	1.	ug/kg	101	101	82-112	0	30
Trichloroethene	N.D.	1.	ug/kg	97	99	81-115	3	30
Vinyl Chloride	N.D.	1.	ug/kg	73	76	58-132	4	30
Xylene (Total)	N.D.	1.	ug/kg	94	94	78-108	0	30
Batch number: 09205SLA026	Sample number(s): 5730897-5730901							
Acenaphthene	N.D.	33.	ug/kg	95		76-111		
Acenaphthylene	N.D.	33.	ug/kg	95		75-122		
Anthracene	N.D.	33.	ug/kg	93		76-112		
Benzo(a)anthracene	N.D.	33.	ug/kg	95		73-112		
Benzo(a)pyrene	N.D.	33.	ug/kg	93		69-122		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	92		61-127		
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	85		65-122		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	89		67-125		
4-Bromophenyl-phenylether	N.D.	33.	ug/kg	96		79-117		
Butylbenzylphthalate	N.D.	67.	ug/kg	98		75-115		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD_Max</u>
Di-n-butylphthalate	N.D.	67.	ug/kg	91		79-112		
Carbazole	N.D.	33.	ug/kg	92		77-113		
4-Chloro-3-methylphenol	N.D.	67.	ug/kg	89		59-133		
4-Chloroaniline	N.D.	67.	ug/kg	36		10-110		
bis(2-Chloroethoxy)methane	N.D.	33.	ug/kg	89		70-118		
bis(2-Chloroethyl) ether	N.D.	33.	ug/kg	85		70-104		
2-Chloronaphthalene	N.D.	33.	ug/kg	103		51-130		
2-Chlorophenol	N.D.	33.	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	N.D.	33.	ug/kg	91		79-110		
2,2'-oxybis(1-Chloropropane)	N.D.	33.	ug/kg	98		67-130		
Chrysene	N.D.	33.	ug/kg	95		76-113		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	90		70-130		
Dibenzofuran	N.D.	33.	ug/kg	91		79-108		
1,2-Dichlorobenzene	N.D.	33.	ug/kg	86		62-107		
1,3-Dichlorobenzene	N.D.	33.	ug/kg	87		70-98		
1,4-Dichlorobenzene	N.D.	33.	ug/kg	88		60-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	62		31-111		
2,4-Dichlorophenol	N.D.	33.	ug/kg	94		75-111		
Diethylphthalate	N.D.	67.	ug/kg	90		76-111		
2,4-Dimethylphenol	N.D.	67.	ug/kg	93		72-111		
Dimethylphthalate	N.D.	67.	ug/kg	90		77-109		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	84		53-110		
2,4-Dinitrophenol	N.D.	670.	ug/kg	74		44-106		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	94		73-115		
2,6-Dinitrotoluene	N.D.	33.	ug/kg	92		79-115		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	98		75-117		
Fluoranthene	N.D.	33.	ug/kg	92		71-108		
Fluorene	N.D.	33.	ug/kg	92		75-116		
Hexachlorobenzene	N.D.	33.	ug/kg	93		78-116		
Hexachlorobutadiene	N.D.	67.	ug/kg	98		70-112		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	103		46-115		
Hexachloroethane	N.D.	33.	ug/kg	79		55-108		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	89		64-119		
Isophorone	N.D.	33.	ug/kg	87		69-110		
2-Methylnaphthalene	N.D.	33.	ug/kg	93		76-105		
2-Methylphenol	N.D.	67.	ug/kg	90		66-110		
4-Methylphenol	N.D.	67.	ug/kg	80		66-117		
Naphthalene	N.D.	33.	ug/kg	92		73-106		
2-Nitroaniline	N.D.	33.	ug/kg	93		78-116		
3-Nitroaniline	N.D.	67.	ug/kg	84		48-120		
4-Nitroaniline	N.D.	67.	ug/kg	58		38-100		
Nitrobenzene	N.D.	33.	ug/kg	85		71-104		
2-Nitrophenol	N.D.	33.	ug/kg	97		81-114		
4-Nitrophenol	N.D.	170.	ug/kg	74		56-118		
N-Nitroso-di-n-propylamine	N.D.	33.	ug/kg	76		63-107		
N-Nitrosodiphenylamine	N.D.	33.	ug/kg	107		85-133		
Di-n-octylphthalate	N.D.	67.	ug/kg	90		68-130		
Pentachlorophenol	N.D.	170.	ug/kg	72		35-106		
Phenanthrene	N.D.	33.	ug/kg	99		77-113		
Phenol	N.D.	33.	ug/kg	78		58-112		
Pyrene	N.D.	33.	ug/kg	102		75-115		
1,2,4-Trichlorobenzene	N.D.	33.	ug/kg	95		73-108		
2,4,5-Trichlorophenol	N.D.	67.	ug/kg	91		76-107		
2,4,6-Trichlorophenol	N.D.	33.	ug/kg	96		78-111		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 092090019A	Sample number(s): 5730897-5730901							
2,4-D	N.D.	12.	ug/kg	82		40-140		
Dalapon	N.D.	30.	ug/kg	65		18-82		
2,4-DB	N.D.	6.2	ug/kg	74		57-127		
Dicamba	N.D.	4.0	ug/kg	103		40-115		
Dinoseb	N.D.	8.0	ug/kg	12		10-36		
2,4-DP (Dichloroprop)	N.D.	8.0	ug/kg	86		60-141		
MCPA	N.D.	760.	ug/kg	69		34-113		
MCPP (Mecoprop)	N.D.	750.	ug/kg	68		29-154		
Pentachlorophenol	N.D.	0.33	ug/kg	69		34-112		
2,4,5-T	N.D.	0.82	ug/kg	77		48-119		
2,4,5-TP	N.D.	0.75	ug/kg	91		57-119		
Batch number: 092080012A	Sample number(s): 5730897-5730901							
Aldrin	N.D.	0.33	ug/kg	78		27-119		
Alpha BHC	N.D.	0.17	ug/kg	74		20-124		
Beta BHC	N.D.	0.17	ug/kg	87		41-124		
Gamma BHC - Lindane	N.D.	0.17	ug/kg	76		34-117		
Chlordane	N.D.	4.0	ug/kg					
p,p-DDD	N.D.	0.33	ug/kg	111		43-139		
p,p-DDE	N.D.	0.33	ug/kg	95		44-135		
p,p-DDT	N.D.	0.33	ug/kg	74		39-137		
Delta BHC	N.D.	0.31	ug/kg	98		40-122		
Dieldrin	N.D.	0.33	ug/kg	97		50-123		
Endosulfan I	N.D.	0.22	ug/kg	90		45-123		
Endosulfan II	N.D.	0.33	ug/kg	110		63-127		
Endosulfan Sulfate	N.D.	0.33	ug/kg	114		59-126		
Endrin	N.D.	0.33	ug/kg	94		43-124		
Endrin Aldehyde	N.D.	0.33	ug/kg	97		46-119		
Heptachlor	N.D.	0.17	ug/kg	72		27-118		
Heptachlor Epoxide	N.D.	0.17	ug/kg	95		44-126		
Kepone	N.D.	2.3	ug/kg					
Methoxychlor	N.D.	1.7	ug/kg	83		44-136		
Toxaphene	N.D.	11.	ug/kg					
Batch number: 092080027A	Sample number(s): 5730897-5730901							
PCB-1016	N.D.	3.30	ug/kg	92		68-116		
PCB-1221	N.D.	4.00	ug/kg					
PCB-1232	N.D.	5.30	ug/kg					
PCB-1242	N.D.	3.30	ug/kg					
PCB-1248	N.D.	3.30	ug/kg					
PCB-1254	N.D.	3.30	ug/kg					
PCB-1260	N.D.	3.30	ug/kg	106		48-149		
Batch number: 092060007A	Sample number(s): 5730897-5730901							
C13 - C22	N.D.	4.0	mg/kg					
C23 - C40	N.D.	4.0	mg/kg					
Total TPH	N.D.	4.0	mg/kg	94		74-119		
Batch number: 092055708002	Sample number(s): 5730897-5730901							
Aluminum	N.D.	5.03	mg/kg	98		76-124		
Antimony	N.D.	1.00	mg/kg	118		28-172		
Arsenic	N.D.	0.950	mg/kg	109		90-110		
Barium	N.D.	0.0400	mg/kg	105		83-117		
Beryllium	N.D.	0.0680	mg/kg	106		90-110		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Cadmium	N.D.	0.140	mg/kg	109		90-110		
Calcium	N.D.	6.13	mg/kg	99		88-112		
Chromium	N.D.	0.590	mg/kg	105		89-111		
Cobalt	N.D.	0.190	mg/kg	103		81-119		
Copper	N.D.	0.200	mg/kg	109		90-110		
Iron	N.D.	4.71	mg/kg	109		71-129		
Lead	N.D.	0.600	mg/kg	100		85-114		
Magnesium	N.D.	2.54	mg/kg	97		86-110		
Manganese	N.D.	0.0560	mg/kg	107		81-118		
Nickel	N.D.	0.180	mg/kg	105		89-111		
Potassium	N.D.	13.1	mg/kg	100		86-114		
Selenium	N.D.	0.980	mg/kg	104		90-109		
Silver	N.D.	0.180	mg/kg	104		90-109		
Sodium	N.D.	37.3	mg/kg	103		74-126		
Thallium	N.D.	1.45	mg/kg	102		81-119		
Vanadium	N.D.	0.170	mg/kg	110		81-119		
Zinc	N.D.	0.660	mg/kg	105		90-110		
Batch number: 092055711002								
Mercury	N.D.	0.0110	mg/kg	90		66-135		
Batch number: 09206109201A								
Total Phosphorus as P (solid)	12.4	2.0	mg/kg	103		90-111		
Batch number: 09205039401A								
pH				100		99-101		
Batch number: 09205039401B								
pH				100		99-101		
Batch number: 09208057301A								
Ammonia Nitrogen	N.D.	17.0	mg/kg	96		89-101		
Batch number: 09205820004B								
Moisture				100		99-101		

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: X092091AA									
Acetone	150		15-210						
Benzene	111		55-143						
Bromodichloromethane	109		53-136						
Bromoform	113		38-124						
Bromomethane	73		32-153						
2-Butanone	135		37-163						
Carbon Disulfide	104		48-146						
Carbon Tetrachloride	111		45-153						

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Chlorobenzene	103		49-135						
Chloroethane	74		39-152						
Chloroform	112		61-142						
Chloromethane	75		51-163						
Dibromochloromethane	112		51-128						
1,1-Dichloroethane	106		63-142						
1,2-Dichloroethane	115		53-143						
1,1-Dichloroethene	113		61-149						
cis-1,2-Dichloroethene	107		60-136						
trans-1,2-Dichloroethene	111		59-142						
1,2-Dichloropropane	104		62-135						
cis-1,3-Dichloropropene	100		51-131						
trans-1,3-Dichloropropene	102		49-129						
Ethylbenzene	100		44-141						
2-Hexanone	119		32-160						
4-Methyl-2-pentanone	123		36-147						
Methylene Chloride	102		47-145						
Styrene	86		35-134						
1,1,2,2-Tetrachloroethane	125		40-152						
Tetrachloroethene	112		42-149						
Toluene	105		50-146						
1,1,1-Trichloroethane	107		57-165						
1,1,2-Trichloroethane	113		54-139						
Trichloroethene	109		53-144						
Vinyl Chloride	74		50-154						
Xylene (Total)	101		44-136						

Batch number: 09205SLA026 Sample number(s): 5730897-5730901 UNSPK: 5730897

Acenaphthene	100	98	59-126	1	30				
Acenaphthylene	102	101	63-128	1	30				
Anthracene	96	97	34-148	1	30				
Benzo(a)anthracene	103	103	37-148	0	30				
Benzo(a)pyrene	98	99	35-150	1	30				
Benzo(b)fluoranthene	103	99	23-156	3	30				
Benzo(g,h,i)perylene	97	99	40-143	2	30				
Benzo(k)fluoranthene	97	99	31-145	2	30				
4-Bromophenyl-phenylether	98	97	67-129	1	30				
Butylbenzylphthalate	113	112	58-135	1	30				
Di-n-butylphthalate	95	95	67-123	0	30				
Carbazole	94	95	58-126	1	30				
4-Chloro-3-methylphenol	93	92	53-130	1	30				
4-Chloroaniline	58	61	11-114	6	30				
bis(2-Chloroethoxy)methane	91	86	69-115	7	30				
bis(2-Chloroethyl) ether	86	85	60-116	1	30				
2-Chloronaphthalene	98	96	41-136	3	30				
2-Chlorophenol	95	95	38-135	1	30				
4-Chlorophenyl-phenylether	101	100	64-119	0	30				
2,2'-oxybis(1-Chloropropane)	98	100	60-134	2	30				
Chrysene	101	101	35-148	0	30				
Dibenz(a,h)anthracene	101	100	36-143	0	30				
Dibenzofuran	95	94	71-112	1	30				
1,2-Dichlorobenzene	86	85	51-115	1	30				
1,3-Dichlorobenzene	85	85	50-111	1	30				

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,4-Dichlorobenzene	86	87	53-113	1	30				
3,3'-Dichlorobenzidine	61	65	10-143	7	30				
2,4-Dichlorophenol	98	94	46-133	4	30				
Diethylphthalate	100	100	66-118	0	30				
2,4-Dimethylphenol	91	89	40-140	2	30				
Dimethylphthalate	100	99	64-118	0	30				
4,6-Dinitro-2-methylphenol	81	80	10-148	1	30				
2,4-Dinitrophenol	67	66	20-143	1	30				
2,4-Dinitrotoluene	99	100	38-139	1	30				
2,6-Dinitrotoluene	99	100	44-140	0	30				
bis(2-Ethylhexyl)phthalate	111	115	44-153	4	30				
Fluoranthene	92	93	32-140	0	30				
Fluorene	101	100	60-125	1	30				
Hexachlorobenzene	94	95	42-141	1	30				
Hexachlorobutadiene	97	93	62-120	4	30				
Hexachlorocyclopentadiene	72	71	10-153	2	30				
Hexachloroethane	78	76	33-116	2	30				
Indeno(1,2,3-cd)pyrene	99	99	36-144	0	30				
Isophorone	88	85	51-118	3	30				
2-Methylnaphthalene	94	90	41-140	4	30				
2-Methylphenol	96	99	48-138	3	30				
4-Methylphenol	87	90	55-126	4	30				
Naphthalene	93	91	52-123	2	30				
2-Nitroaniline	102	104	52-140	2	30				
3-Nitroaniline	92	94	34-134	2	30				
4-Nitroaniline	76	76	21-122	0	30				
Nitrobenzene	86	82	35-138	5	30				
2-Nitrophenol	97	93	46-132	4	30				
4-Nitrophenol	75	78	12-154	4	30				
N-Nitroso-di-n-propylamine	81	84	51-123	4	30				
N-Nitrosodiphenylamine	112	112	58-137	0	30				
Di-n-octylphthalate	109	107	38-147	2	30				
Pentachlorophenol	74	71	10-138	4	30				
Phenanthrene	103	102	33-156	1	30				
Phenol	82	83	44-128	1	30				
Pyrene	116	116	39-152	0	30				
1,2,4-Trichlorobenzene	97	93	59-119	4	30				
2,4,5-Trichlorophenol	98	98	40-133	1	30				
2,4,6-Trichlorophenol	102	102	36-143	1	30				

Batch number: 092090019A Sample number(s): 5730897-5730901 UNSPK: 5730897

2,4-D	89	84	45-127	6	35
Dalapon	65	61	12-86	8	50
2,4-DB	85	79	34-143	7	50
Dicamba	106	91	33-120	16	50
Dinoseb	13	11	1-48	18	35
2,4-DP (Dichloroprop)	91	86	21-170	5	50
MCPA	69	67	31-184	2	50
MCPFP (Mecoprop)	73	70	16-174	4	50
Pentachlorophenol	31*	30*	51-112	3	30
2,4,5-T	79	74	25-132	7	35
2,4,5-TP	94	88	55-125	6	35

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
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## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	RPD	Max
Batch number: 092080012A	Sample number(s): 5730897-5730901 UNSPK: 5730897							
Aldrin	71	79	16-126	11	50			
Alpha BHC	68	76	10-129	10	50			
Beta BHC	76	79	14-147	4	50			
Gamma BHC - Lindane	71	78	10-140	9	50			
p,p-DDD	98	105	16-163	7	50			
p,p-DDE	85	90	18-161	6	50			
p,p-DDT	70	73	10-176	5	50			
Delta BHC	88	96	23-140	9	50			
Dieldrin	83	92	19-154	10	50			
Endosulfan I	78	86	16-137	9	50			
Endosulfan II	93	105	28-154	13	50			
Endosulfan Sulfate	98	109	21-160	11	50			
Endrin	81	89	11-149	9	50			
Endrin Aldehyde	75	84	10-148	11	50			
Heptachlor	65	72	13-126	10	50			
Heptachlor Epoxide	84	93	13-157	11	50			
Methoxychlor	75	72	32-147	4	50			
Batch number: 092080027A	Sample number(s): 5730897-5730901 UNSPK: 5730897							
PCB-1016	90	87	29-146	3	50			
PCB-1260	103	102	20-157	1	50			
Batch number: 092060007A	Sample number(s): 5730897-5730901 UNSPK: 5730897 BKG: 5730897							
Total TPH	66		49-123		68	36	62* (1)	50
Batch number: 092055708002	Sample number(s): 5730897-5730901 UNSPK: P731176 BKG: P731176							
Aluminum	11377 (2)	10570 (2)	90-110	5	20	13,000	12,900	1 20
Antimony	64*	63*	75-125	0	20	N.D.	N.D.	0 (1) 20
Arsenic	115	110	75-125	5	20	N.D.	N.D.	0 (1) 20
Barium	106	118	75-125	9	20	43.7	44.8	2 20
Beryllium	104	101	83-111	3	20	0.143 J	0.115 J	22* (1) 20
Cadmium	107	109	75-125	2	20	N.D.	N.D.	0 (1) 20
Calcium	105 (2)	133 (2)	75-125	4	20	2,420	2,320	4 20
Chromium	108	99	75-125	6	20	8.87	8.23	7 20
Cobalt	92	114	75-122	13	20	33.1	42.3	25* 20
Copper	100	92	75-125	3	20	50.9	44.8	13 20
Iron	-50 (2)	4831 (2)	75-125	10	20	47,400	44,900	5 20
Lead	111	111	75-125	0	20	N.D.	N.D.	0 (1) 20
Magnesium	178*	166*	75-125	2	20	698	663	5 20
Manganese	47 (2)	1876 (2)	75-125	68*	20	865	970	11 20
Nickel	103	104	75-125	1	20	2.77 J	2.65 J	4 (1) 20
Potassium	107	105	75-125	2	20	249	248	1 (1) 20
Selenium	111	108	75-125	2	20	N.D.	N.D.	0 (1) 20
Silver	112	111	75-125	1	20	N.D.	N.D.	0 (1) 20
Sodium	99	98	75-125	1	20	120	116	3 (1) 20
Thallium	105	111	75-125	6	20	N.D.	N.D.	0 (1) 20
Vanadium	97 (2)	125 (2)	75-125	6	20	201	192	4 20
Zinc	107	114	75-125	4	20	35.3	33.0	7 (1) 20

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: 092055711002 Mercury	109	104	80-120	5	20	N.D.	N.D.	0 (1)	20
Batch number: 09206109201A Total Phosphorus as P (solid)	89	66*	75-125	16	20	189	169	11	20
Batch number: 09205039401A pH						BKG: P728818 8.29	8.25	0	1
Batch number: 09205039401B pH						BKG: P731238 12.7	12.7	0	1
Batch number: 09208057301A Ammonia Nitrogen	103 (2)	109 (2)	73-127	1	13	932	929	0	10
Batch number: 09205820004B Moisture						BKG: P730511 16.9	15.6	8	15

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

 Analysis Name: TCL by 8260 (soil)  
 Batch number: X092091AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5730897	91	97	81	85
5730898	92	95	80	79
5730899	93	92	82	83
5730900	94	98	79	85
5730901	93	96	79	84
Blank	90	91	82	81
LCS	89	93	92	86
LCSD	89	96	89	85
MS	91	92	89	84
Limits:	71-114	70-109	70-123	70-111

Analysis Name: TCL SW846 Semivolatiles Soil

Batch number: 09205SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
5730897	82	85	99	80
5730898	82	83	97	80
5730899	81	84	91	80
5730900	79	81	96	77
5730901	79	81	94	77
Blank	78	81	89	81
LCS	81	83	88	82

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

### Surrogate Quality Control

MS	84	87	98	83
MSD	84	86	97	79
Limits:	54-116	47-122	43-131	49-120
	2-Fluorobiphenyl	Terphenyl-d14		
5730897	87	86		
5730898	84	85		
5730899	88	83		
5730900	84	90		
5730901	85	86		
Blank	86	72		
LCS	86	77		
MS	92	87		
MSD	90	87		
Limits:	55-117	43-131		

 Analysis Name: App. IX OC Pesticides in Soils  
 Batch number: 092080012A

	Tetrachloro-m-xylene	Decachlorobiphenyl	
5730897	73	92	
5730898	67	95	
5730899	63	91	
5730900	66	88	
5730901	69	90	
Blank	64	91	
LCS	67	94	
MS	51*	87	
MSD	62	93	
Limits:	55-131	45-150	

Analysis Name: PCBs in Soil

Batch number: 092080027A

	Tetrachloro-m-xylene	Decachlorobiphenyl	
5730897	104	113	
5730898	104	105	
5730899	102	100	
5730900	105	106	
5730901	103	108	
Blank	96	100	
LCS	102	108	
MS	97	106	
MSD	95	107	
Limits:	38-132	41-160	

Analysis Name: Herbicides in Soils

Batch number: 092090019A

	2,4-Dichlorophenylacetic acid	
5730897	64	

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Norfolk Southern Railway Co  
Reported: 08/21/09 at 04:53 PM

Group Number: 1154670

### Surrogate Quality Control

5730898	62
5730899	62
5730900	62
5730901	63
Blank	59
LCS	81
MS	80
MSD	75

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Limits: 36-156

Analysis Name: DRO/ORO in Soil  
Batch number: 092060007A  
Orthoterphenl

---

5730897	89
5730898	83
5730899	94
5730900	91
5730901	96
Blank	96
DUP	92
LCS	107
MS	101

---

Limits: 59-129

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers	Inorganic Qualifiers
<b>A</b> TIC is a possible aldol-condensation product	<b>B</b> Value is <CRDL, but ≥IDL
<b>B</b> Analyte was also detected in the blank	<b>E</b> Estimated due to interference
<b>C</b> Pesticide result confirmed by GC/MS	<b>M</b> Duplicate injection precision not met
<b>D</b> Compound quantitated on a diluted sample	<b>N</b> Spike amount not within control limits
<b>E</b> Concentration exceeds the calibration range of the instrument	<b>S</b> Method of standard additions (MSA) used for calculation
<b>J</b> Estimated value	<b>U</b> Compound was not detected
<b>N</b> Presumptive evidence of a compound (TICs only)	<b>W</b> Post digestion spike out of control limits
<b>P</b> Concentration difference between primary and confirmation columns >25%	<b>*</b> Duplicate analysis not within control limits
<b>U</b> Compound was not detected	<b>+</b> Correlation coefficient for MSA <0.995
<b>X,Y,Z</b> Defined in case narrative	

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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**ANALYTICAL RESULTS**

Prepared for:

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

540-981-4993

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

August 28, 2009

**SAMPLE GROUP**

The sample group for this submittal is 1158835. Samples arrived at the laboratory on Saturday, August 22, 2009. The PO# for this group is 1-9-WV-PRTN-SA08 and the release number is SC8675#8453760.

**Client Description**

G-1 B Unspiked Grab Soil Sample  
G-1 B Matrix Spike Grab Soil Sample  
G-1 B Matrix Spike Dup Grab Soil Sample  
G-1 B Duplicate Grab Soil Sample  
G-4 A Grab Soil Sample  
G-7 C Grab Soil Sample  
G-7 E Grab Soil Sample  
G-22 A Grab Soil Sample  
G-16 D Grab Soil Sample

**Lancaster Labs Number**

5757335  
5757336  
5757337  
5757338  
5757339  
5757340  
5757341  
5757342  
5757343

**METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.


ELECTRONIC     Marshall Miller & Associates  
COPY TO  
ELECTRONIC     Marshall Miller & Associates  
COPY TO  
1 COPY TO       Data Package Group

Attn: Chuck Cline

Attn: George Robertson

Questions? Contact your Client Services Representative  
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



**Max E. Snively**  
**Senior Specialist**

Lancaster Laboratories Sample No. SW 5757335

Group No. 1158835  
WV

G-1 B Unspiked Grab Soil Sample  
Old Athens Turnpike

Collected: 08/06/2009 11:45 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10  
Reported: 08/28/2009 at 13:25  
Discard: 09/28/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

G1B-- SDG#: ATH01-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
		<b>SW-846 6010C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1,550	3.75	5
<b>Wet Chemistry</b>					
		<b>SM20 2540 G</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	20.1	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	092380637001	08/27/2009 18:53	John P Hook	5
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	092380637001	08/26/2009 20:10	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1

Lancaster Laboratories Sample No. SW 5757336

Group No. 1158835  
WV

G-1 B Matrix Spike Grab Soil Sample  
Old Athens Turnpike

Collected: 08/06/2009 11:45 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10  
Reported: 08/28/2009 at 13:25  
Discard: 09/28/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

G1B-- SDG#: ATH01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 3,090	mg/kg 3.75	5
<b>Wet Chemistry</b>					
00118	Moisture	SM20 2540 G n.a.	% 20.1	% 0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	092380637001	08/27/2009 19:03	John P Hook	5
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	092380637001	08/26/2009 20:10	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1

**Lancaster Laboratories Sample No. SW 5757337**
**Group No. 1158835  
WV**
**G-1 B Matrix Spike Dup Grab Soil Sample  
Old Athens Turnpike**

Collected: 08/06/2009 11:45 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10

Norfolk Southern Railway Co

Reported: 08/28/2009 at 13:25

110 Franklin Road SE

Discard: 09/28/2009

Box 13

Roanoke VA 24042-0013

G1B-- SDG#: ATH01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 2,690	mg/kg 3.75	5
<b>Wet Chemistry</b>					
00118	Moisture	SM20 2540 G n.a.	% 20.1	% 0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	092380637001	08/27/2009 19:06	John P Hook	5
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	092380637001	08/26/2009 20:10	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1

Lancaster Laboratories Sample No. SW 5757338

Group No. 1158835  
WV

G-1 B Duplicate Grab Soil Sample  
Old Athens Turnpike

Collected: 08/06/2009 11:45 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10

Norfolk Southern Railway Co

Reported: 08/28/2009 at 13:25

110 Franklin Road SE

Discard: 09/28/2009

Box 13

Roanoke VA 24042-0013

G1B-- SDG#: ATH01-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 1,550	mg/kg 3.75	5
<b>Wet Chemistry</b>					
00118	Moisture	SM20 2540 G n.a.	% 20.1	% 0.50	1
00121	Moisture Duplicate	n.a.	20.1	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	092380637001	08/27/2009 18:59	John P Hook	5
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	092380637001	08/26/2009 20:10	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1
00121	Moisture Duplicate	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1

**Lancaster Laboratories Sample No. SW 5757339**
**Group No. 1158835  
WV**
**G-4 A Grab Soil Sample  
Old Athens Turnpike**

Collected: 08/06/2009 12:10 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10

Norfolk Southern Railway Co

Reported: 08/28/2009 at 13:25

110 Franklin Road SE

Discard: 09/28/2009

Box 13

Roanoke VA 24042-0013

G4A-- SDG#: ATH01-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 383	mg/kg 0.842	1
<b>Wet Chemistry</b>					
00111	Moisture	SM20 2540 G n.a.	% 30.1	% 0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	092380637001	08/27/2009 19:12	John P Hook	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	092380637001	08/26/2009 20:10	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1

Lancaster Laboratories Sample No. SW 5757340

Group No. 1158835  
WV

G-7 C Grab Soil Sample  
Old Athens Turnpike

Collected: 08/06/2009 12:25 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10

Norfolk Southern Railway Co

Reported: 08/28/2009 at 13:25

110 Franklin Road SE

Discard: 09/28/2009

Box 13

Roanoke VA 24042-0013

G7C-- SDG#: ATH01-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 9,290	mg/kg 14.1	20
<b>Wet Chemistry</b>					
00111	Moisture	SM20 2540 G n.a.	% 16.8	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	092380637001	08/27/2009 19:15	John P Hook	20
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	092380637001	08/26/2009 20:10	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1

Lancaster Laboratories Sample No. SW 5757341

Group No. 1158835  
WV

G-7 E Grab Soil Sample  
Old Athens Turnpike

Collected: 08/06/2009 12:25 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10

Norfolk Southern Railway Co

Reported: 08/28/2009 at 13:25

110 Franklin Road SE

Discard: 09/28/2009

Box 13

Roanoke VA 24042-0013

G7E-- SDG#: ATH01-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
		<b>SW-846 6010C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9,100	7.28	10
<b>Wet Chemistry</b>					
		<b>SM20 2540 G</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	20.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	092380637001	08/27/2009 19:24	John P Hook	10
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	092380637001	08/26/2009 20:10	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1

Lancaster Laboratories Sample No. SW 5757342

Group No. 1158835  
WV

G-22 A Grab Soil Sample  
Old Athens Turnpike

Collected: 08/06/2009 15:32 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10

Norfolk Southern Railway Co

Reported: 08/28/2009 at 13:25

110 Franklin Road SE

Discard: 09/28/2009

Box 13

Roanoke VA 24042-0013

G22A- SDG#: ATH01-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 67.0	mg/kg 0.708	1
<b>Wet Chemistry</b>					
00111	Moisture	SM20 2540 G n.a.	% 16.1	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	092380637001	08/27/2009 19:27	John P Hook	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	092380637001	08/26/2009 20:10	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1

Lancaster Laboratories Sample No. SW 5757343

Group No. 1158835  
WV

G-16 D Grab Soil Sample  
Old Athens Turnpike

Collected: 08/06/2009 14:53 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10  
Reported: 08/28/2009 at 13:25  
Discard: 09/28/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

G16D- SDG#: ATH01-06\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 231	mg/kg 0.753	1
<b>Wet Chemistry</b>					
00111	Moisture	SM20 2540 G n.a.	% 21.1	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	092380637001	08/27/2009 19:30	John P Hook	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	092380637001	08/26/2009 20:10	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09236820002B	08/24/2009 16:37	Scott W Freisher	1

## Quality Control Summary

Client Name: Norfolk Southern Railway Co  
Reported: 08/28/09 at 01:25 PM

Group Number: 1158835

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 092380637001 Lead	Sample number(s): 5757335-5757343 N.D.	0.600	mg/kg	95		85-114		
Batch number: 09236820002B Moisture Moisture Moisture Duplicate	Sample number(s): 5757335-5757343			100 100 100		99-101 99-101 99-101		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 092380637001 Lead	Sample number(s): 5757335-5757343 8206 (2)	6069 (2)	75-125	14	20	UNSPK: 5757335 1,240	BKG: 5757335 1,230	0	20
Batch number: 09236820002B Moisture Moisture Moisture Duplicate	Sample number(s): 5757335-5757343					BKG: 5757335 20.1 20.1 20.1	20.1 20.1 20.1	0 0 0	15 15 15

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 11716 Group # 15885 Sample # 5757335-43 **COC #** 215697

Please print. Instructions on reverse side correspond with circled numbers. 2120

**1** Client: NSRC / MMA Acct. #: \_\_\_\_\_  
 Project Name #: MMA # NS1691 PWSID #: \_\_\_\_\_  
 Project Manager: Chuck Cline P.O. #: \_\_\_\_\_  
 Sampler: John Keenan Quote #: WN  
 Name of state where samples were collected: \_\_\_\_\_

**2**

Sample ID	Date	Time	3		4		5		6
			X		X		Analysis Requested	Preservation Codes	
G-1 B	8/10/09	1145	X						Preservation Codes H=HCl T=Thiosulfate N=HNO <sub>3</sub> B=NaOH S=H <sub>2</sub> SO <sub>4</sub> O=Other
G-1 B MS		1145	X						
G-1 B MSD		1145	X						
G-4 A		1210	X						
G-7 C		1225	X						
G-7 E		1225	X						
G-22 A		1532	X						
G-16 D		1453	X						

**7** Turnaround Time Requested (TAT) (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: 8/25/09  
 Rush results requested by (please circle): Phone Fax E-mail  
 Phone #: 276-322-5467 Fax #: 276-322-1510  
 E-mail address: chuck.cline@mmanj.com

**8** Data Package Options (please circle if required)  
 TX TRRP-13 SDG Complete? Yes No  
 MA MCP CI RCP  
 Site-specific QC (MSMSD/Dup)? Yes No  
 (If Yes, indicate QC sample and volume)  
 Internal COC Required? Yes / No

**9**

Relinquished by:	Date	Time	Received by:	Date	Time
<u>John Keenan</u>	<u>8/20/09</u>	<u>1445</u>	<u>7968</u>	<u>7929</u>	<u>1799</u>

Remarks: TOTAL LEAD 6010C

Relinquished by: Katie Hartman Date: 8/19/09 Time: 1610

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766  
 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client. Katie Hartman

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<b>+</b>	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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**ANALYTICAL RESULTS**

Prepared for:

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

540-981-4993

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

September 01, 2009

**SAMPLE GROUP**

The sample group for this submittal is 1159364. Samples arrived at the laboratory on Wednesday, August 26, 2009. The PO# for this group is 1-9-WV-PRTN-SA08 and the release number is SC8675#8453760.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
WC-A Composite Soil Sample	5761183
WC-A Composite Soil Sample	5761184
WC-A Composite Soil Sample	5761185
WC-B Composite Soil Sample	5761186
WC-B Composite Soil Sample	5761187
WC-B Composite Soil Sample	5761188
WC-C Composite Soil Sample	5761189
WC-C Composite Soil Sample	5761190
WC-C Composite Soil Sample	5761191

**METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

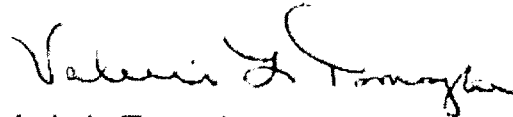
ELECTRONIC     Marshall Miller & Associates  
COPY TO  
ELECTRONIC     Marshall Miller & Associates  
COPY TO

Attn: Chuck Cline

Attn: George Robertson

Questions? Contact your Client Services Representative  
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



**Valerie L. Tomayko**  
Group Leader

**Lancaster Laboratories Sample No. SW 5761183**
**Group No. 1159364**
**WC-A Composite Soil Sample  
Old Athens Turnpike**
**WV**

Collected: 08/25/2009 12:00 by JH

Account Number: 11716

Submitted: 08/26/2009 08:55

Norfolk Southern Railway Co

Reported: 09/01/2009 at 16:32

110 Franklin Road SE

Discard: 10/02/2009

Box 13

Roanoke VA 24042-0013

WCAAR

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Pesticides/PCBs</b>			<b>ug/kg</b>	<b>ug/kg</b>	
01216	PCB-1016	12674-11-2	N.D.	21	5
01216	PCB-1221	11104-28-2	N.D.	25	5
01216	PCB-1232	11141-16-5	N.D.	33	5
01216	PCB-1242	53469-21-9	N.D.	21	5
01216	PCB-1248	12672-29-6	N.D.	21	5
01216	PCB-1254	11097-69-1	460	21	5
01216	PCB-1260	11096-82-5	N.D.	21	5
<b>GC Extractable TPH</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02785	TN EPH soil C12-C40	n.a.	200	25	5
<b>Wet Chemistry</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	20.8	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01216	PCBs in Solids	SW-846 8082	1	092380025A	08/27/2009 12:23	Jamie L Brillhart	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	092380025A	08/27/2009 01:30	Roman Kuropatkin	1
02785	TN EPH soil C12-C40	TN EPH 012/98	2	092380024A	08/31/2009 15:06	Heather E Williams	5
07004	Extraction - DRO (Soils)	SW-846 3550B	1	092380024A	08/27/2009 01:30	Roman Kuropatkin	1
00111	Moisture	SM20 2540 G	1	09239820001B	08/27/2009 15:27	Scott W Freisher	1

**Lancaster Laboratories Sample No. TL 5761184**
**Group No. 1159364**
**WV**
**WC-A Composite Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Old Athens Turnpike**

Collected: 08/25/2009 12:00 by JH

Account Number: 11716

Submitted: 08/26/2009 08:55

Norfolk Southern Railway Co

Reported: 09/01/2009 at 16:32

110 Franklin Road SE

Discard: 10/02/2009

Box 13

Roanoke VA 24042-0013

WCANV

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C</b>					
			mg/l	mg/l	
00949	1,4-Dichlorobenzene	106-46-7	N.D.	0.005	1
00949	2,4-Dinitrotoluene	121-14-2	N.D.	0.005	1
00949	Hexachlorobenzene	118-74-1	N.D.	0.005	1
00949	Hexachlorobutadiene	87-68-3	N.D.	0.005	1
00949	Hexachloroethane	67-72-1	N.D.	0.005	1
00949	2-Methylphenol	95-48-7	N.D.	0.005	1
00949	4-Methylphenol	106-44-5	N.D.	0.010	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
00949	Nitrobenzene	98-95-3	N.D.	0.005	1
00949	Pentachlorophenol	87-86-5	N.D.	0.015	1
00949	Pyridine	110-86-1	N.D.	0.010	1
00949	2,4,5-Trichlorophenol	95-95-4	N.D.	0.005	1
00949	2,4,6-Trichlorophenol	88-06-2	N.D.	0.005	1
<b>Herbicides SW-846 8151A</b>					
			mg/l	mg/l	
00952	2,4-D	94-75-7	N.D.	0.0020	1
00952	2,4,5-TP	93-72-1	N.D.	0.00020	1
<b>Pesticides/PCBs SW-846 8081A</b>					
			mg/l	mg/l	
00950	Gamma BHC - Lindane	58-89-9	N.D.	0.000023	1
00950	Chlordane	57-74-9	N.D.	0.00035	1
00950	Endrin	72-20-8	N.D.	0.000020	1
00950	Heptachlor	76-44-8	N.D.	0.000020	1
00950	Heptachlor Epoxide	1024-57-3	N.D.	0.000018	1
00950	Methoxychlor	72-43-5	N.D.	0.00015	1
00950	Toxaphene	8001-35-2	N.D.	0.0050	1
<b>Metals SW-846 6010C</b>					
			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	0.508	0.00060	1
07049	Cadmium	7440-43-9	0.0090 J	0.0020	1
07051	Chromium	7440-47-3	N.D.	0.0034	1
07055	Lead	7439-92-1	20.0	0.0345	5
07036	Selenium	7782-49-2	N.D.	0.0089	1
07066	Silver	7440-22-4	N.D.	0.0023	1
<b>SW-846 7470A</b>					
			mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000056	1

**Lancaster Laboratories Sample No. TL 5761184**
**Group No. 1159364**
**WV**
**WC-A Composite Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Old Athens Turnpike**

Collected: 08/25/2009 12:00 by JH

Account Number: 11716

 Submitted: 08/26/2009 08:55  
 Reported: 09/01/2009 at 16:32  
 Discard: 10/02/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

WCANV

### General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00949	TCLP Acid Base/Neutrals	SW-846 9270C	1	09240WAE026	08/31/2009 11:49	Joseph M Gambler	1
04731	TCLP Leachate Extraction	SW-846 3510C	1	09240WAE026	08/31/2009 03:30	Sherry L Morrow	1
00952	TCLP Herbicides	SW-846 8151A	1	092400016A	08/31/2009 12:57	John W Perkins	1
00950	TCLP Pesticides	SW-846 8081A	1	092400005A	08/31/2009 15:18	Lindsey K Lafferty	1
00817	Water Sample Pest. Extraction	SW-846 3510C	1	092400005A	08/28/2009 16:00	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	092400016A	08/29/2009 07:05	Karen L Beyer	1
07035	Arsenic	SW-846 6010C	1	092400636001	08/31/2009 22:29	John P Hook	1
07046	Barium	SW-846 6010C	1	092400636001	08/31/2009 22:29	John P Hook	1
07049	Cadmium	SW-846 6010C	1	092400636001	08/31/2009 15:06	Eric L Eby	1
07051	Chromium	SW-846 6010C	1	092400636001	08/31/2009 15:06	Eric L Eby	1
07055	Lead	SW-846 6010C	1	092400636001	09/01/2009 09:54	Joanne M Gates	5
07036	Selenium	SW-846 6010C	1	092400636001	08/31/2009 15:06	Eric L Eby	1
07066	Silver	SW-846 6010C	1	092400636001	08/31/2009 15:06	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	092405713002	08/31/2009 10:28	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	092400636001	08/30/2009 21:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	092405713002	08/30/2009 21:30	Mirit S Shenouda	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	09239-482-0947B	08/27/2009 13:20	Darin P Wagner	n.a.

Lancaster Laboratories Sample No. TL 5761185

Group No. 1159364

WC-A Composite Soil Sample  
TCLP ZERO HEADSPACE EXTRACTION  
Old Athens Turnpike

WV

Collected: 08/25/2009 12:00 by JH

Account Number: 11716

Submitted: 08/26/2009 08:55

Norfolk Southern Railway Co

Reported: 09/01/2009 at 16:32

110 Franklin Road SE

Discard: 10/02/2009

Box 13

Roanoke VA 24042-0013

WCAZH

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>ug/l</b>	<b>ug/l</b>	
03636	Benzene	71-43-2	N.D.	10	20
03636	2-Butanone	78-93-3	N.D.	60	20
03636	Carbon Tetrachloride	56-23-5	N.D.	20	20
03636	Chlorobenzene	108-90-7	N.D.	16	20
03636	Chloroform	67-66-3	N.D.	16	20
03636	1,2-Dichloroethane	107-06-2	N.D.	20	20
03636	1,1-Dichloroethene	75-35-4	N.D.	16	20
03636	Tetrachloroethene	127-18-4	N.D.	16	20
03636	Trichloroethene	79-01-6	N.D.	20	20
03636	Vinyl Chloride	75-01-4	N.D.	20	20

### General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP by 8260	SW-846 8260B	1	T092441AA	09/01/2009 12:51	Matthew S Woods	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T092441AA	09/01/2009 12:51	Matthew S Woods	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	09239-482-0946	08/27/2009 13:10	Darin P Wagner	n.a.

Lancaster Laboratories Sample No. SW 5761186

Group No. 1159364

WC-B Composite Soil Sample  
Old Athens Turnpike

WV

Collected: 08/25/2009 14:00 by JH

Account Number: 11716

Submitted: 08/26/2009 08:55

Norfolk Southern Railway Co

Reported: 09/01/2009 at 16:32

110 Franklin Road SE

Discard: 10/02/2009

Box 13

Roanoke VA 24042-0013

WCBAR

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Pesticides/PCBs</b>			<b>ug/kg</b>	<b>ug/kg</b>	
	<b>SW-846 8082</b>				
01216	PCB-1016	12674-11-2	N.D.	75	20
01216	PCB-1221	11104-28-2	N.D.	91	20
01216	PCB-1232	11141-16-5	N.D.	120	20
01216	PCB-1242	53469-21-9	N.D.	75	20
01216	PCB-1248	12672-29-6	N.D.	75	20
01216	PCB-1254	11097-69-1	3,800	75	20
01216	PCB-1260	11096-82-5	N.D.	75	20
<b>GC Extractable TPH</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>TN EPH 012/98</b>				
02785	TN EPH soil C12-C40	n.a.	350	45	10
<b>Wet Chemistry</b>			<b>%</b>	<b>%</b>	
	<b>SM20 2540 G</b>				
00111	Moisture	n.a.	11.7	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01216	PCBs in Solids	SW-846 8082	1	092380025A	08/28/2009 22:05	Jamie L Brillhart	20
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	092380025A	08/27/2009 01:30	Roman Kuropatkin	1
02785	TN EPH soil C12-C40	TN EPH 012/98	2	092380024A	08/31/2009 15:54	Heather E Williams	10
07004	Extraction - DRO (Soils)	SW-846 3550B	1	092380024A	08/27/2009 01:30	Roman Kuropatkin	1
00111	Moisture	SM20 2540 G	1	09239820001B	08/27/2009 15:27	Scott W Freisher	1

Lancaster Laboratories Sample No. TL 5761187

Group No. 1159364

WV

 WC-B Composite Soil Sample  
 TCLP NON-VOLATILE EXTRACTION  
 Old Athens Turnpike

Collected: 08/25/2009 14:00 by JH

Account Number: 11716

Submitted: 08/26/2009 08:55

Norfolk Southern Railway Co

Reported: 09/01/2009 at 16:32

110 Franklin Road SE

Discard: 10/02/2009

Box 13

Roanoke VA 24042-0013

WCBNV

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C mg/l</b>					
00949	1,4-Dichlorobenzene	106-46-7	N.D.	0.005	1
00949	2,4-Dinitrotoluene	121-14-2	N.D.	0.005	1
00949	Hexachlorobenzene	118-74-1	N.D.	0.005	1
00949	Hexachlorobutadiene	87-68-3	N.D.	0.005	1
00949	Hexachloroethane	67-72-1	N.D.	0.005	1
00949	2-Methylphenol	95-48-7	N.D.	0.005	1
00949	4-Methylphenol	106-44-5	N.D.	0.010	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
00949	Nitrobenzene	98-95-3	N.D.	0.005	1
00949	Pentachlorophenol	87-86-5	N.D.	0.015	1
00949	Pyridine	110-86-1	N.D.	0.010	1
00949	2,4,5-Trichlorophenol	95-95-4	N.D.	0.005	1
00949	2,4,6-Trichlorophenol	88-06-2	N.D.	0.005	1
<b>Herbicides SW-846 8151A mg/l</b>					
00952	2,4-D	94-75-7	N.D.	0.0020	1
00952	2,4,5-TP	93-72-1	N.D.	0.00020	1
<b>Pesticides/PCBs SW-846 8081A mg/l</b>					
00950	Gamma BHC - Lindane	58-89-9	N.D.	0.000023	1
00950	Chlordane	57-74-9	N.D.	0.00035	1
00950	Endrin	72-20-8	N.D.	0.000020	1
00950	Heptachlor	76-44-8	N.D.	0.000020	1
00950	Heptachlor Epoxide	1024-57-3	N.D.	0.000018	1
00950	Methoxychlor	72-43-5	N.D.	0.00015	1
00950	Toxaphene	8001-35-2	N.D.	0.0050	1
<b>Metals SW-846 6010C mg/l</b>					
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	0.444	0.00060	1
07049	Cadmium	7440-43-9	0.0083 J	0.0020	1
07051	Chromium	7440-47-3	N.D.	0.0034	1
07055	Lead	7439-92-1	219	0.345	50
07036	Selenium	7782-49-2	N.D.	0.0089	1
07066	Silver	7440-22-4	N.D.	0.0023	1
<b>SW-846 7470A mg/l</b>					
00259	Mercury	7439-97-6	N.D.	0.000056	1

**Lancaster Laboratories Sample No. TL 5761187**
**Group No. 1159364**
**WC-B Composite Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Old Athens Turnpike**
**WV**

Collected: 08/25/2009 14:00 by JH

Account Number: 11716

 Submitted: 08/26/2009 08:55  
 Reported: 09/01/2009 at 16:32  
 Discard: 10/02/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

WCBNV

### General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
00949	TCLP Acid Base/Neutrals	SW-846 8270C	1	09240WAE026	08/31/2009	12:38	Joseph M Gambler	1
04731	TCLP Leachate Extraction	SW-846 3510C	1	09240WAE026	08/31/2009	03:30	Sherry L Morrow	1
00952	TCLP Herbicides	SW-846 8151A	1	092400016A	08/31/2009	13:24	John W Perkins	1
00950	TCLP Pesticides	SW-846 8081A	1	092400005A	08/31/2009	15:51	Lindsey K Lafferty	1
00817	Water Sample Pest. Extraction	SW-846 3510C	1	092400005A	08/28/2009	16:00	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	092400016A	08/29/2009	07:05	Karen L Beyer	1
07035	Arsenic	SW-846 6010C	1	092400636001	08/31/2009	23:39	John P Hook	1
07046	Barium	SW-846 6010C	1	092400636001	08/31/2009	23:39	John P Hook	1
07049	Cadmium	SW-846 6010C	1	092400636001	08/31/2009	15:38	Eric L Eby	1
07051	Chromium	SW-846 6010C	1	092400636001	08/31/2009	15:38	Eric L Eby	1
07055	Lead	SW-846 6010C	1	092400636001	09/01/2009	10:20	Joanne M Gates	50
07036	Selenium	SW-846 6010C	1	092400636001	08/31/2009	15:38	Eric L Eby	1
07066	Silver	SW-846 6010C	1	092400636001	08/31/2009	15:38	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	092405713002	08/31/2009	10:38	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	092400636001	08/30/2009	21:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	092405713002	08/30/2009	21:30	Mirit S Shenouda	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	09239-482-0947B	08/27/2009	13:20	Darin P Wagner	n.a.

Lancaster Laboratories Sample No. TL 5761188

Group No. 1159364

WC-B Composite Soil Sample  
TCLP ZERO HEADSPACE EXTRACTION  
Old Athens Turnpike

WV

Collected: 08/25/2009 14:00 by JH

Account Number: 11716

Submitted: 08/26/2009 08:55

Norfolk Southern Railway Co

Reported: 09/01/2009 at 16:32

110 Franklin Road SE

Discard: 10/02/2009

Box 13

Roanoke VA 24042-0013

WCBZH

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
03636	Benzene	71-43-2	N.D.	10	20
03636	2-Butanone	78-93-3	N.D.	60	20
03636	Carbon Tetrachloride	56-23-5	N.D.	20	20
03636	Chlorobenzene	108-90-7	N.D.	16	20
03636	Chloroform	67-66-3	N.D.	16	20
03636	1,2-Dichloroethane	107-06-2	N.D.	20	20
03636	1,1-Dichloroethene	75-35-4	N.D.	16	20
03636	Tetrachloroethene	127-18-4	N.D.	16	20
03636	Trichloroethene	79-01-6	N.D.	20	20
03636	Vinyl Chloride	75-01-4	N.D.	20	20

### General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP by 8260	SW-846 8260B	1	T092441AA	09/01/2009 14:00	Matthew S Woods	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T092441AA	09/01/2009 14:00	Matthew S Woods	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	09239-482-0946	08/27/2009 13:10	Darin P Wagner	n.a.

**Lancaster Laboratories Sample No. SW 5761189**
**Group No. 1159364**
**WC-C Composite Soil Sample  
Old Athens Turnpike**
**WV**

Collected: 08/25/2009 15:30 by JH

Account Number: 11716

 Submitted: 08/26/2009 08:55  
 Reported: 09/01/2009 at 16:32  
 Discard: 10/02/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

WCCAR

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Pesticides/PCBs</b>		<b>SW-846 8082</b>	<b>ug/kg</b>	<b>ug/kg</b>	
01216	PCB-1016	12674-11-2	N.D.	19	5
01216	PCB-1221	11104-28-2	N.D.	22	5
01216	PCB-1232	11141-16-5	N.D.	30	5
01216	PCB-1242	53469-21-9	N.D.	19	5
01216	PCB-1248	12672-29-6	N.D.	19	5
01216	PCB-1254	11097-69-1	470	19	5
01216	PCB-1260	11096-82-5	N.D.	19	5
<b>GC Extractable TPH</b>		<b>TN EPH 012/98</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02785	TN EPH soil C12-C40	n.a.	59	4.5	1
The LCSd is outside the QC limits. Since the recovery is within our statistical limit the results are reported.					
<b>Wet Chemistry</b>		<b>SM20 2540 G</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	10.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01216	PCBs in Solids	SW-846 8082	1	092380025A	08/27/2009 13:23	Jamie L Brillhart	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	092380025A	08/27/2009 01:30	Roman Kuropatkin	1
02785	TN EPH soil C12-C40	TN EPH 012/98	2	092380024A	08/31/2009 14:41	Heather E Williams	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	092380024A	08/27/2009 01:30	Roman Kuropatkin	1
00111	Moisture	SM20 2540 G	1	09239820001B	08/27/2009 15:27	Scott W Freisher	1

**Lancaster Laboratories Sample No. TL 5761190**
**Group No. 1159364**
**WV**
**WC-C Composite Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Old Athens Turnpike**

Collected: 08/25/2009 15:30 by JH

Account Number: 11716

 Submitted: 08/26/2009 08:55  
 Reported: 09/01/2009 at 16:32  
 Discard: 10/02/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

WCCNV

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Semivolatiles</b>	<b>SW-846 8270C</b>	<b>mg/l</b>	<b>mg/l</b>	
00949	1,4-Dichlorobenzene	106-46-7	N.D.	0.005	1
00949	2,4-Dinitrotoluene	121-14-2	N.D.	0.005	1
00949	Hexachlorobenzene	118-74-1	N.D.	0.005	1
00949	Hexachlorobutadiene	87-68-3	N.D.	0.005	1
00949	Hexachloroethane	67-72-1	N.D.	0.005	1
00949	2-Methylphenol	95-48-7	N.D.	0.005	1
00949	4-Methylphenol	106-44-5	N.D.	0.010	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
00949	Nitrobenzene	98-95-3	N.D.	0.005	1
00949	Pentachlorophenol	87-86-5	N.D.	0.015	1
00949	Pyridine	110-86-1	N.D.	0.010	1
00949	2,4,5-Trichlorophenol	95-95-4	N.D.	0.005	1
00949	2,4,6-Trichlorophenol	88-06-2	N.D.	0.005	1
<b>Herbicides</b>	<b>SW-846 8151A</b>		<b>mg/l</b>	<b>mg/l</b>	
00952	2,4-D	94-75-7	N.D.	0.0020	1
00952	2,4,5-TP	93-72-1	N.D.	0.00020	1
<b>Pesticides/PCBs</b>	<b>SW-846 8081A</b>		<b>mg/l</b>	<b>mg/l</b>	
00950	Gamma BHC - Lindane	58-89-9	N.D.	0.000023	1
00950	Chlordane	57-74-9	N.D.	0.00035	1
00950	Endrin	72-20-8	N.D.	0.000020	1
00950	Heptachlor	76-44-8	N.D.	0.000020	1
00950	Heptachlor Epoxide	1024-57-3	N.D.	0.000018	1
00950	Methoxychlor	72-43-5	N.D.	0.00015	1
00950	Toxaphene	8001-35-2	N.D.	0.0050	1
<b>Metals</b>	<b>SW-846 6010C</b>		<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	0.322	0.00060	1
07049	Cadmium	7440-43-9	0.0032 J	0.0020	1
07051	Chromium	7440-47-3	N.D.	0.0034	1
07055	Lead	7439-92-1	37.8	0.0690	10
07036	Selenium	7782-49-2	N.D.	0.0089	1
07066	Silver	7440-22-4	N.D.	0.0023	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000056	1

Lancaster Laboratories Sample No. TL 5761190

Group No. 1159364

WV

 WC-C Composite Soil Sample  
 TCLP NON-VOLATILE EXTRACTION  
 Old Athens Turnpike

Collected: 08/25/2009 15:30 by JH

Account Number: 11716

 Submitted: 08/26/2009 08:55  
 Reported: 09/01/2009 at 16:32  
 Discard: 10/02/2009

 Norfolk Southern Railway Co  
 110 Franklin Road SE  
 Box 13  
 Roanoke VA 24042-0013

WCCNV

### General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
00949	TCLP Acid Base/Neutrals	SW-846 8270C	1	09240WAE026	08/31/2009	13:26	Joseph M Gambler	1
04731	TCLP Leachate Extraction	SW-846 3510C	1	09240WAE026	08/31/2009	03:30	Sherry L Morrow	1
00952	TCLP Herbicides	SW-846 8151A	1	092400016A	08/31/2009	11:35	John W Perkins	1
00950	TCLP Pesticides	SW-846 8081A	1	092400005A	08/31/2009	16:02	Lindsey K Lafferty	1
00817	Water Sample Pest. Extraction	SW-846 3510C	1	092400005A	08/28/2009	16:00	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	092400016A	08/29/2009	07:05	Karen L Beyer	1
07035	Arsenic	SW-846 6010C	1	092400636001	08/31/2009	23:47	John P Hook	1
07046	Barium	SW-846 6010C	1	092400636001	08/31/2009	23:47	John P Hook	1
07049	Cadmium	SW-846 6010C	1	092400636001	08/31/2009	15:41	Eric L Eby	1
07051	Chromium	SW-846 6010C	1	092400636001	08/31/2009	15:41	Eric L Eby	1
07055	Lead	SW-846 6010C	1	092400636001	09/01/2009	10:24	Joanne M Gates	10
07036	Selenium	SW-846 6010C	1	092400636001	08/31/2009	15:41	Eric L Eby	1
07066	Silver	SW-846 6010C	1	092400636001	08/31/2009	15:41	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	092405713002	08/31/2009	10:40	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	092400636001	08/30/2009	21:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	092405713002	08/30/2009	21:30	Mirit S Shenouda	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	09239-482-0947B	08/27/2009	13:20	Darin P Wagner	n.a.



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. TL 5761191

Group No. 1159364

WC-C Composite Soil Sample  
TCLP ZERO HEADSPACE EXTRACTION  
Old Athens Turnpike

WV

Collected: 08/25/2009 15:30 by JH

Account Number: 11716

Submitted: 08/26/2009 08:55

Norfolk Southern Railway Co

Reported: 09/01/2009 at 16:32

110 Franklin Road SE

Discard: 10/02/2009

Box 13

Roanoke VA 24042-0013

WCCZH

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
03636	Benzene	71-43-2	N.D.	10	20
03636	2-Butanone	78-93-3	N.D.	60	20
03636	Carbon Tetrachloride	56-23-5	N.D.	20	20
03636	Chlorobenzene	108-90-7	N.D.	16	20
03636	Chloroform	67-66-3	N.D.	16	20
03636	1,2-Dichloroethane	107-06-2	N.D.	20	20
03636	1,1-Dichloroethene	75-35-4	N.D.	16	20
03636	Tetrachloroethene	127-18-4	N.D.	16	20
03636	Trichloroethene	79-01-6	N.D.	20	20
03636	Vinyl Chloride	75-01-4	N.D.	20	20

### General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP by 8260	SW-846 8260B	1	T092441AA	09/01/2009 14:23	Matthew S Woods	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T092441AA	09/01/2009 14:23	Matthew S Woods	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	09239-482-0946	08/27/2009 13:10	Darin P Wagner	n.a.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 09/01/09 at 04:32 PM

Group Number: 1159364

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T092441AA	Sample number(s): 5761185,5761188,5761191							
Benzene	N.D.	0.5	ug/l	92		79-120		
2-Butanone	N.D.	3.	ug/l	99		64-166		
Carbon Tetrachloride	N.D.	1.	ug/l	93		75-123		
Chlorobenzene	N.D.	0.8	ug/l	99		80-120		
Chloroform	N.D.	0.8	ug/l	93		77-122		
1,2-Dichloroethane	N.D.	1.	ug/l	100		70-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	91		74-123		
Tetrachloroethene	N.D.	0.8	ug/l	96		80-121		
Trichloroethene	N.D.	1.	ug/l	95		80-120		
Vinyl Chloride	N.D.	1.	ug/l	82		59-120		
Batch number: 09240WAE026	Sample number(s): 5761184,5761187,5761190							
1,4-Dichlorobenzene	N.D.	0.005	mg/l	98		65-113		
2,4-Dinitrotoluene	N.D.	0.005	mg/l	117*		81-115		
Hexachlorobenzene	N.D.	0.005	mg/l	110		81-118		
Hexachlorobutadiene	N.D.	0.005	mg/l	98		57-124		
Hexachloroethane	N.D.	0.005	mg/l	94		52-113		
2-Methylphenol	N.D.	0.005	mg/l	93		64-101		
4-Methylphenol	N.D.	0.010	mg/l	88		61-103		
Nitrobenzene	N.D.	0.005	mg/l	109		75-109		
Pentachlorophenol	N.D.	0.015	mg/l	123*		53-110		
Pyridine	N.D.	0.010	mg/l	53		27-79		
2,4,5-Trichlorophenol	N.D.	0.005	mg/l	111*		79-107		
2,4,6-Trichlorophenol	N.D.	0.005	mg/l	114*		81-113		
Batch number: 092400016A	Sample number(s): 5761184,5761187,5761190							
2,4-D	N.D.	0.0020	mg/l	110		45-128		
2,4,5-TP	N.D.	0.00020	mg/l	84		56-135		
Batch number: 092380025A	Sample number(s): 5761183,5761186,5761189							
PCB-1016	N.D.	3.3	ug/kg	91		68-116		
PCB-1221	N.D.	4.0	ug/kg					
PCB-1232	N.D.	5.3	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	3.3	ug/kg	99		48-149		
Batch number: 092400005A	Sample number(s): 5761184,5761187,5761190							
Gamma BHC - Lindane	N.D.	0.00002	mg/l	98		68-128		
		3						
Chlordane	N.D.	0.00035	mg/l					
Endrin	N.D.	0.00002	mg/l	100		43-133		
		0						
Heptachlor	N.D.	0.00002	mg/l	92		57-126		
		0						

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 09/01/09 at 04:32 PM

Group Number: 1159364

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Heptachlor Epoxide	N.D.	0.00001	mg/l	99		65-133		
Methoxychlor	N.D.	0.00015	mg/l	100		52-133		
Toxaphene	N.D.	0.0050	mg/l					
Batch number: 092380024A	Sample number(s): 5761183, 5761186, 5761189							
TN EPH soil C12-C40	N.D.	4.0	mg/kg	98	104*	50-100	6	20
Batch number: 092400636001	Sample number(s): 5761184, 5761187, 5761190							
Arsenic	N.D.	0.0072	mg/l	109		80-120		
Barium	0.00080 J	0.00060	mg/l	95		90-110		
Cadmium	N.D.	0.0020	mg/l	107		90-112		
Chromium	N.D.	0.0034	mg/l	95		90-110		
Lead	N.D.	0.0069	mg/l	93		80-120		
Selenium	N.D.	0.0089	mg/l	114		80-120		
Silver	N.D.	0.0023	mg/l	117		83-120		
Batch number: 092405713002	Sample number(s): 5761184, 5761187, 5761190							
Mercury	N.D.	0.00005	mg/l	96		80-120		
Batch number: 09239820001B	Sample number(s): 5761183, 5761186, 5761189							
Moisture				100		99-101		

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: T092441AA	Sample number(s): 5761185, 5761188, 5761191 UNSPK: 5761185								
Benzene	95	92	80-126	3	30				
2-Butanone	89	87	57-138	3	30				
Carbon Tetrachloride	100	97	81-138	3	30				
Chlorobenzene	99	98	87-124	1	30				
Chloroform	98	93	81-134	5	30				
1,2-Dichloroethane	98	94	66-141	4	30				
1,1-Dichloroethene	100	97	85-142	4	30				
Tetrachloroethene	100	97	80-128	3	30				
Trichloroethene	98	95	88-133	4	30				
Vinyl Chloride	85	86	66-133	1	30				
Batch number: 09240WAE026	Sample number(s): 5761184, 5761187, 5761190 UNSPK: P760879								
1,4-Dichlorobenzene	99	96	54-126	3	30				
2,4-Dinitrotoluene	102	91	70-124	12	30				
Hexachlorobenzene	112	111	77-122	1	30				
Hexachlorobutadiene	103	106	53-131	2	30				
Hexachloroethane	100	98	41-125	2	30				
2-Methylphenol	48	41	10-146	15	30				
4-Methylphenol	43	37	10-147	15	30				
Nitrobenzene	99	88	61-124	11	30				

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 09/01/09 at 04:32 PM

Group Number: 1159364

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Pentachlorophenol	129	127	23-133	2	30				
Pyridine	52	54	31-79	4	30				
2,4,5-Trichlorophenol	99	101	26-142	2	30				
2,4,6-Trichlorophenol	104	107	21-151	3	30				
Batch number: 092400016A	Sample number(s): 5761184,5761187,5761190 UNSPK: 5761190								
2,4-D	97	100	13-170	3	30				
2,4,5-TP	87	91	29-171	4	30				
Batch number: 092380025A	Sample number(s): 5761183,5761186,5761189 UNSPK: 5761186								
PCB-1016	120	118	45-130	2	50				
PCB-1260	483*	567*	39-149	16	50				
Batch number: 092400005A	Sample number(s): 5761184,5761187,5761190 UNSPK: 5761184								
Gamma BHC - Lindane	100	98	42-137	2	30				
Endrin	104	104	48-134	0	30				
Heptachlor	92	92	19-145	0	30				
Heptachlor Epoxide	101	101	43-143	0	30				
Methoxychlor	100	95	44-147	5	30				
Batch number: 092380024A	Sample number(s): 5761183,5761186,5761189 BKG: 5761183								
TN EPH soil C12-C40						160	190	16 (1)	20
Batch number: 092400636001	Sample number(s): 5761184,5761187,5761190 UNSPK: 5761184 BKG: 5761184								
Arsenic	103	101	75-125	2	20	N.D.	N.D.	0 (1)	20
Barium	92	90	75-125	3	20	0.508	0.518	2	20
Cadmium	95	92	75-125	3	20	0.0090 J	0.0088 J	2 (1)	20
Chromium	88	87	75-125	2	20	N.D.	N.D.	0 (1)	20
Lead	80 (2)	64 (2)	75-125	3	20	20.0	20.1	1	20
Selenium	103	101	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	24*	23*	75-125	1	20	N.D.	N.D.	0 (1)	20
Batch number: 092405713002	Sample number(s): 5761184,5761187,5761190 UNSPK: 5761184 BKG: 5761184								
Mercury	90	88	80-120	2	20	N.D.	N.D.	0 (1)	20
Batch number: 09239820001B	Sample number(s): 5761183,5761186,5761189 BKG: P759191								
Moisture						17.5	18.1	3	15

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

 Analysis Name: TCLP by 8260  
 Batch number: T092441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5761185	89	87	90	90
5761188	89	86	91	89
5761191	89	88	93	92

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 09/01/09 at 04:32 PM

Group Number: 1159364

### Surrogate Quality Control

Blank	89	85	93	93
LCS	89	89	92	93
MS	89	85	90	92
MSD	88	85	90	91
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: TCLP Acid Base/Neutrals  
 Batch number: 09240WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	Phenol-d6
5761184	95	87	82	29
5761187	104	93	81	36
5761190	92	84	79	30
Blank	96	85	83	32
LCS	110	96	90	43
MS	100	99	90	15
MSD	89	101	92	14
Limits:	64-121	63-114	47-114	10-74

	2-Fluorophenol	2,4,6-Tribromophenol
5761184	46	111
5761187	56	122
5761190	48	110
Blank	51	111
LCS	65	126
MS	21	124
MSD	20	122
Limits:	10-98	34-145

 Analysis Name: PCBs in Solids  
 Batch number: 092380025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
5761183	97	137
5761186	130	158*
5761189	106	138
Blank	91	99
LCS	94	105
MS	131	154*
MSD	125	155*
Limits:	53-139	53-142

Analysis Name: TCLP Pesticides

Batch number: 092400005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
5761184	93	86
5761187	85	83
5761190	96	90
Blank	88	86
LCS	92	88
MS	92	92
MSD	90	86

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Norfolk Southern Railway Co  
Reported: 09/01/09 at 04:32 PM

Group Number: 1159364

### Surrogate Quality Control

Limits: 55-130 44-146

Analysis Name: TCLP Herbicides  
Batch number: 092400016A  
2,4-  
Dichlorophenylacetic  
acid

5761184	74
5761187	86
5761190	90
Blank	75
LCS	82
MS	80
MSD	86

Limits: 35-144

Analysis Name: TN EPH soil C12-C40  
Batch number: 092380024A  
Orthoterphenyl

5761183	124
5761186	107
5761189	105
Blank	87
DUP	110
LCS	101
LCSD	102

Limits: 50-150

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct # 11716 Group # 1159364 Sample # 576183-91 **COC # 0093962**

Please print. Instructions on reverse side correspond with circled numbers. 1-9-WV-PRIN-SAD8 Per GR  
1103

<b>1</b> Client: <u>NERC/MMA</u> Acct. #: _____ Project Name: <u>NS1691</u> PWSID #: _____ Project Manager: <u>Chuck Cline</u> P.O. #: _____ Sampler: <u>Jody Hawks / Trent Wilcox</u> Mobile #: _____ Name of state where samples were collected: <u>WV</u>		<b>4</b> Matrix: _____ Total # of Containers: _____ Date: _____ Time: _____ Other: _____ PCB 8082 Full TCLP* TN EPH 12-98		<b>5</b> Analytes Requested: _____ For Lab Use Only FSC: _____ SCR #: _____ *131V601047470A /8260/8270C/8081		<b>6</b> Temperature of samples upon receipt (if requested): _____ Remarks: <u>Temp 4.8°C</u>						
Sample Identification	Date Collected	Time Collected	Matrix	Total # of Containers	PCB 8082	Full TCLP*	TN EPH 12-98	Relinquished by:	Date	Time	Date	Time
WC-A	8-25-09	12:00	X	4	X	X	X	<u>St. J. Hill</u>	8/24/11	11:00	8/24/11	9:00
WC-B	8-25-09	14:00	X	4	X	X	X					
WC-C	8-25-09	15:30	X	4	X	X	X					
<b>7</b> Turnaround Time Requested (TAT) (please circle): Normal (Rush) (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): Phone Fax (E-mail) Phone #: <u>276-322-5467</u> Fax #: <u>276-322-1510</u> E-mail address: <u>chuck.cline@mml.com</u>												
<b>8</b> Data Package Options (please circle if required) SDG Complete? QC Summary Type VI (Raw Data) Yes No Type I (Tier I) GLP Site-specific QC required? Yes No Type II (Tier II) Other (If yes, indicate QC sample and submit triplicate volume.) Type III (NJ Red. Del.) Internal Chain of Custody required? Yes No Type IV (CLP)												
Relinquished by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____												

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<b>+</b>	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

**WARRANTY AND LIMITS OF LIABILITY** – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

**ANALYTICAL RESULTS**

Prepared for:

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

540-981-4993

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

September 03, 2009

**SAMPLE GROUP**

The sample group for this submittal is 1158836. Samples arrived at the laboratory on Saturday, August 22, 2009. The PO# for this group is 1-9-WV-PRTN-SA08 and the release number is SC8675#8453760.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
RB-1 Grab Water Sample	5757344
RB-2 Grab Water Sample	5757345
RB-3 Grab Water Sample	5757346
RB-4 Grab Water Sample	5757347
RB-5 Grab Water Sample	5757348

**METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Marshall Miller & Associates	Attn: Chuck Cline
ELECTRONIC COPY TO	Marshall Miller & Associates	Attn: George Robertson
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative  
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



Robert Strocko Jr.  
Manager

Lancaster Laboratories Sample No. WW 5757344

Group No. 1158836

RB-1 Grab Water Sample  
Old Athens Turnpike

WV

Collected: 08/06/2009 11:45 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10

Norfolk Southern Railway Co

Reported: 09/03/2009 at 20:03

110 Franklin Road SE

Discard: 10/04/2009

Box 13

Roanoke VA 24042-0013

RB1-- SDG#: ATH02-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>Metals</b>		<b>SW-846 6010C</b>	<b>mg/l</b>	<b>mg/l</b>	
07055	Lead	7439-92-1	N.D.	0.0069	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010C	2	092450635001	09/03/2009 17:01	John P Hook	1
10635	WW SW846(IV) ICP Dig (tot rec)	SW-846 3005A	1	092450635001	09/03/2009 10:00	Denise K Connors	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 5757345

Group No. 1158836

RB-2 Grab Water Sample  
Old Athens Turnpike

WV

Collected: 08/06/2009 13:50 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10  
Reported: 09/03/2009 at 20:03  
Discard: 10/04/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

RB2-- SDG#: ATH02-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>Metals</b>		<b>SW-846 6010C</b>	<b>mg/l</b>	<b>mg/l</b>	
07055	Lead	7439-92-1	0.0118 J	0.0069	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010C	2	092450635001	09/03/2009 17:10	John P Hook	1
10635	WW SW846(IV) ICP Dig (tot rec)	SW-846 3005A	1	092450635001	09/03/2009 10:00	Denise K Connors	1

Lancaster Laboratories Sample No. WW 5757346

Group No. 1158836

RB-3 Grab Water Sample  
Old Athens Turnpike

WV

Collected: 08/06/2009 14:25 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10

Norfolk Southern Railway Co

Reported: 09/03/2009 at 20:03

110 Franklin Road SE

Discard: 10/04/2009

Box 13

Roanoke VA 24042-0013

RB3-- SDG#: ATH02-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>Metals</b>					
07055	Lead	SW-846 6010C 7439-92-1	mg/l N.D.	mg/l 0.0069	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010C	2	092450635001	09/03/2009 17:13	John P Hook	1
10635	WW SW846 (IV) ICP Dig (tot rec)	SW-846 3005A	1	092450635001	09/03/2009 10:00	Denise K Connors	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 5757347

Group No. 1158836

RB-4 Grab Water Sample  
Old Athens Turnpike

WV

Collected: 08/06/2009 15:05 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10  
Reported: 09/03/2009 at 20:03  
Discard: 10/04/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

RB4-- SDG#: ATH02-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>Metals</b>		<b>SW-846 6010C</b>	<b>mg/l</b>	<b>mg/l</b>	
07055	Lead	7439-92-1	N.D.	0.0069	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010C	2	092450635001	09/03/2009 17:17	John P Hook	1
10635	WW SW846 (IV) ICP Dig (tot rec)	SW-846 3005A	1	092450635001	09/03/2009 10:00	Denise K Connors	1

Lancaster Laboratories Sample No. WW 5757348

Group No. 1158836

RB-5 Grab Water Sample  
Old Athens Turnpike

WV

Collected: 08/06/2009 15:45 by JK

Account Number: 11716

Submitted: 08/22/2009 10:10

Norfolk Southern Railway Co

Reported: 09/03/2009 at 20:03

110 Franklin Road SE

Discard: 10/04/2009

Box 13

Roanoke VA 24042-0013

RB5-- SDG#: ATH02-05\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>Metals</b>					
07055	Lead	SW-846 6010C 7439-92-1	mg/l N.D.	mg/l 0.0069	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010C	2	092450635001	09/03/2009 17:20	John P Hook	1
10635	WW SW846 (IV) ICP Dig (tot rec)	SW-846 3005A	1	092450635001	09/03/2009 10:00	Denise K Connors	1

## Quality Control Summary

Client Name: Norfolk Southern Railway Co  
Reported: 09/03/09 at 08:03 PM

Group Number: 1158836

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 092450635001	Sample number(s): 5757344-5757348							
Lead	N.D.	0.0069	mg/l	96	95	80-120	1	20

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 11716 Group # 1158836 Sample # 5757344-48 **COC #** 215698

Please print. Instructions on reverse side correspond with circled numbers.

**1** Client: Norfolk Southern Direct Acct. #: \_\_\_\_\_  
 Project Name/#: MMA # NS1691 PWSID #: \_\_\_\_\_  
 Project Manager: Chuck Cline P.O.#: \_\_\_\_\_  
 Sampler: John Keenan Quote #: \_\_\_\_\_  
 Name of state where samples were collected: WV

**2** Sample Identification

Sample ID	Date	Time	Remarks
RB-1	8/6-09	1145	X
RB-2	8/6-09	1350	X
RB-3	8/6-09	1425	X
RB-4	8/6-09	1505	X
RB-5	8/6-09	1545	X

**3** Name of state where samples were collected: WV

**4** Analysis Requested

Analysis	Requested	Completed
TOTAL LEAD	X	X

**5** Preservation Codes

Code	Requested	Completed
H=HCl		
T=Thiou/fate		
N=HNO <sub>3</sub>		
B=NaOH		
S=H <sub>2</sub> SO <sub>4</sub>		
O=Other		

**6** Preservation Codes: H=HCl, T=Thiou/fate, N=HNO<sub>3</sub>, B=NaOH, S=H<sub>2</sub>SO<sub>4</sub>, O=Other

Remarks: unpreserved & unfiltered

**7** Turnaround Time Requested (TAT) (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_  
 Phone #: 216-322-5467 Fax #: 216-322-1510  
 E-mail address: chuck.cline@mmail.com

**8** Data Package Options (please circle if required)

Type I (validation/NJ Reg)	TX TRRP-13	MA MCP	CT RCP	SDG Complete?
Type II (Tier II)				Yes No
Type III (Reduced NJ)				
Type IV (CLP SOW)				
Type VI (Raw Data Only)				

**9** Relinquished by: John Keenan Date: 8/20/09 Time: 1445 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: Katie Hartlove Date: 8/24/09 Time: 10:10

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<b>+</b>	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

**WARRANTY AND LIMITS OF LIABILITY** – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared for:

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

540-981-4993

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

October 15, 2009

Project: Old Athens Turnpike

Samples arrived at the laboratory on Friday, October 09, 2009. The PO# for this group is 1-9-WV-PRTN-SA08 and the release number is SC8675#8453760. The group number for this submittal is 1165716.

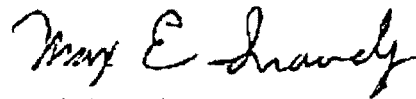
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
G-34C Grab Soil Sample	5801843
G-34CMS Grab Soil Sample	5801844
G-34CMSD Grab Soil Sample	5801845
G-34CDUP Grab Soil Sample	5801846
G-34E Grab Soil Sample	5801847
RB-6 Grab Water Sample	5801848

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Marshall Miller & Associates	Attn: Chuck Cline
ELECTRONIC COPY TO	Marshall Miller & Associates	Attn: George Robertson
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative  
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



**Max E. Snively**  
**Senior Specialist**



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: G-34C Grab Soil Sample  
Old Athens Turnpike

LLI Sample # SW 5801843  
LLI Group # 1165716  
WV

Project Name: Old Athens Turnpike

Collected: 09/24/2009 16:48 by GR

Account Number: 11716

Submitted: 10/09/2009 09:30

Norfolk Southern Railway Co

Reported: 10/15/2009 at 11:18

110 Franklin Road SE

Discard: 11/15/2009

Box 13

Roanoke VA 24042-0013

G-34C SDG#: ATH03-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
		SW-846 6010C	mg/kg	mg/kg	
06955	Lead	7439-92-1	28.1	0.673	1
<b>Wet Chemistry</b>					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	11.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	092850637001	10/13/2009 03:43	Tara L Snyder	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050A	1	092850637001	10/12/2009 13:25	James L Mertz	1
00111	Moisture	SM20 2540 G	1	09286820007B	10/13/2009 16:05	Scott W Freisher	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: G-34CMS Grab Soil Sample  
Old Athens Turnpike

LLI Sample # SW 5801844  
LLI Group # 1165716  
WV

Project Name: Old Athens Turnpike

Collected: 09/24/2009 16:48 by GR

Account Number: 11716

Submitted: 10/09/2009 09:30

Norfolk Southern Railway Co

Reported: 10/15/2009 at 11:18

110 Franklin Road SE

Discard: 11/15/2009

Box 13

Roanoke VA 24042-0013

G-34C SDG#: ATH03-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
		<b>SW-846 6010C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	50.0	0.673	1
<b>Wet Chemistry</b>					
		<b>SM20 2540 G</b>	<b>%</b>	<b>%</b>	
00118	Moisture	n.a.	11.7	0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	092850637001	10/13/2009 03:53	Tara L Snyder	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050A	1	092850637001	10/12/2009 13:25	James L Mertz	1
00118	Moisture	SM20 2540 G	1	09286820007B	10/13/2009 16:05	Scott W Freisher	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

**Sample Description:** G-34CMSD Grab Soil Sample  
Old Athens Turnpike

**LLI Sample #** SW 5801845  
**LLI Group #** 1165716  
WV

**Project Name:** Old Athens Turnpike

**Collected:** 09/24/2009 16:48 by GR

**Account Number:** 11716

**Submitted:** 10/09/2009 09:30  
**Reported:** 10/15/2009 at 11:18  
**Discard:** 11/15/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

G-34C SDG#: ATH03-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 44.8	mg/kg 0.673	1
<b>Wet Chemistry</b>					
00118	Moisture	SM20 2540 G n.a.	% 11.7	% 0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	092850637001	10/13/2009 03:57	Tara L Snyder	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050A	1	092850637001	10/12/2009 13:25	James L Mertz	1
00118	Moisture	SM20 2540 G	1	09286820007B	10/13/2009 16:05	Scott W Freisher	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: G-34CDUP Grab Soil Sample  
Old Athens Turnpike

LLI Sample # SW 5801846  
LLI Group # 1165716  
WV

Project Name: Old Athens Turnpike

Collected: 09/24/2009 16:48 by GR

Account Number: 11716

Submitted: 10/09/2009 09:30  
Reported: 10/15/2009 at 11:18  
Discard: 11/15/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

G-34C SDG#: ATH03-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
		<b>SW-846 6010C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	26.3	0.666	1
<b>Wet Chemistry</b>					
		<b>SM20 2540 G</b>	<b>%</b>	<b>%</b>	
00118	Moisture	n.a.	11.7	0.50	1
00121	Moisture Duplicate	n.a.	11.7	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	092850637001	10/13/2009 03:50	Tara L Snyder	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050A	1	092850637001	10/12/2009 13:25	James L Mertz	1
00118	Moisture	SM20 2540 G	1	09286820007B	10/13/2009 16:05	Scott W Freisher	1
00121	Moisture Duplicate	SM20 2540 G	1	09286820007B	10/13/2009 16:05	Scott W Freisher	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: G-34E Grab Soil Sample  
Old Athens Turnpike

LLI Sample # SW 5801847  
LLI Group # 1165716  
WV

Project Name: Old Athens Turnpike

Collected: 09/24/2009 17:00 by GR

Account Number: 11716

Submitted: 10/09/2009 09:30

Norfolk Southern Railway Co

Reported: 10/15/2009 at 11:18

110 Franklin Road SE

Discard: 11/15/2009

Box 13

Roanoke VA 24042-0013

G-34E SDG#: ATH03-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
		SW-846 6010C	mg/kg	mg/kg	
06955	Lead	7439-92-1	26.7	0.678	1
<b>Wet Chemistry</b>					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	11.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	092850637001	10/13/2009 04:04	Tara L Snyder	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050A	1	092850637001	10/12/2009 13:25	James L Mertz	1
00111	Moisture	SM20 2540 G	1	09286820007B	10/13/2009 16:05	Scott W Freisher	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

**Sample Description: RB-6 Grab Water Sample  
Old Athens Turnpike**

**LLI Sample # WW 5801848  
LLI Group # 1165716  
WV**

**Project Name: Old Athens Turnpike**

Collected: 09/24/2009 15:10 by GR

Account Number: 11716

Submitted: 10/09/2009 09:30

Norfolk Southern Railway Co

Reported: 10/15/2009 at 11:18

110 Franklin Road SE

Discard: 11/15/2009

Box 13

Roanoke VA 24042-0013

G34R6 SDG#: ATH03-03RB\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>Metals</b>		<b>SW-846 6010C</b>	<b>mg/l</b>	<b>mg/l</b>	
07055	Lead	7439-92-1	N.D.	0.0069	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010C	1	092850635001	10/13/2009 15:14	John P Hook	1
10635	WW SW846(IV) ICP Dig (tot rec)	SW-846 3005A	1	092850635001	10/12/2009 20:30	Mirit S Shenouda	1

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 10/15/09 at 11:18 AM

Group Number: 1165716

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 092850635001 Lead	Sample number(s): 5801848 N.D.	0.0069	mg/l	97	98	80-120	1	20
Batch number: 092850637001 Lead	Sample number(s): 5801843-5801847 N.D.	0.594	mg/kg	97		85-114		
Batch number: 09286820007B Moisture	Sample number(s): 5801843-5801847			100		99-101		
Moisture				100		99-101		
Moisture Duplicate				100		99-101		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 092850637001 Lead	Sample number(s): 5801843-5801847 130*	99	75-125	11	20	UNSPK: 5801843 24.8	BKG: 5801843 23.2	7	20
Batch number: 09286820007B Moisture	Sample number(s): 5801843-5801847					BKG: 5801843 11.7	11.7	0	15
Moisture						11.7	11.7	0	15
Moisture Duplicate						11.7	11.7	0	15

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 11716 Group# 1165716 Sample # 5801843-48 COC # 216444

Please print. Instructions on reverse side correspond with circled numbers.

**1** Client: Norfolk Southern Direct Acct. #: \_\_\_\_\_  
 Project Name#: NSRC/MM+A PWSID #: \_\_\_\_\_  
 Project Manager: Chuck Cline P.O.#: \_\_\_\_\_  
 Sampler: George Robertson Quote #: \_\_\_\_\_  
 Name of state where samples were collected: \_\_\_\_\_

**2**

Sample ID	Date	Time	Matrix		5 Analysis Requested	Preservation Codes	Remarks
			Water	Soil			
G-34C	9/24/09	1648	X	X			3.9-5.5
G-34E	9/24/09	1700	X	X			
G-34C MS	9/24/09	1648	X	X			unfiltered
G-34C MSD	9/24/09	1648	X	X			Fed Ex Tracking # 7960 1580 1717
RB-6	9/24/09	1510	X	X			

**3**

**4**

**5**

**6**

**7** Turnaround Time Requested (TAT) (please circle): Normal  Rush   
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_  
 Phone #: 276/322-5467 Fax #: 276/322-1310  
 E-mail address: chuck.cline@mm+a.com

**8** Data Package Options (please circle if required)

Type I (validation/NJ Reg)	TX TRRP-13	SDG Complete?
Type II (Tier II)	MA MCP	Yes No
Type III (Reduced NJ)	CIRCP	
Type IV (CLP SOW)	Site-specific QC (MS/MSD/Dup)?	Yes No
Type V (Raw Data Only)	Internal COC Required?	Yes / No

**9**

Relinquished by:	Date	Time	Received by:	Date	Time
George Robertson	9/25	1600	Bill Sharp	9/25	1600
Bill Sharp	10-8	1700	Fed Ex Pick-up	10-8	1700

**6**

Preservation Codes  
 H=HCl T=Thiosulfate  
 N=HNO<sub>3</sub> B=NaOH  
 S=H<sub>2</sub>SO<sub>4</sub> O=Other

Temperature of samples (upon receipt if requested)

For Lab Use Only  
 FSC: \_\_\_\_\_  
 SCR#: \_\_\_\_\_

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6166 Gary Gerlach  
 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<b>+</b>	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

**WARRANTY AND LIMITS OF LIABILITY** – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared for:

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

540-981-4993

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

November 02, 2009

Project: Old Athens Turnpike, WV

Samples arrived at the laboratory on Thursday, October 29, 2009. The PO# for this group is 1-9-WV-PRTN-SA08 and the release number is SC8675#8453760. The group number for this submittal is 1168576.

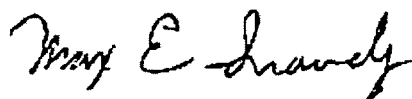
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
G-2W Grab Soil Sample	5820115
G-2WMS Matrix Spike Grab Soil Sample	5820116
G-2WMSD Matrix Spike Dup Grab Soil Sample	5820117
G-2WDUP Duplicate Grab Soil Sample	5820118
G-9N Grab Soil Sample	5820119
G-11P Grab Soil Sample	5820120
G-11W Grab Soil Sample	5820121
G-13E Grab Soil Sample	5820122

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Marshall Miller & Associates	Attn: Chuck Cline
ELECTRONIC COPY TO	Marshall Miller & Associates	Attn: George Robertson
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative  
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



**Max E. Snavely**  
**Senior Specialist**

**Sample Description: G-2W Grab Soil Sample  
Old Athens Turnpike, WV**

**LLI Sample # SW 5820115  
LLI Group # 1168576  
WV**

**Project Name: Old Athens Turnpike, WV**

Collected: 10/27/2009 10:47 by GR

Account Number: 11716

Submitted: 10/29/2009 09:10

Norfolk Southern Railway Co

Reported: 11/02/2009 at 10:32

110 Franklin Road SE

Discard: 12/03/2009

Box 13

Roanoke VA 24042-0013

G-02W SDG#: ATH04-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 193	mg/kg 4.02	5
<b>Wet Chemistry</b>					
00111	Moisture	SM20 2540 G n.a.	% 25.4	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	093020637001	10/30/2009 08:55	Joanne M Gates	5
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	093020637001	10/29/2009 21:20	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09302820006A	10/29/2009 18:18	Scott W Freisher	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

**Sample Description: G-2WMS Matrix Spike Grab Soil Sample  
Old Athens Turnpike, WV**

**LLI Sample # SW 5820116  
LLI Group # 1168576  
WV**

**Project Name: Old Athens Turnpike, WV**

Collected: 10/27/2009 10:47 by GR

Account Number: 11716

Submitted: 10/29/2009 09:10  
Reported: 11/02/2009 at 10:32  
Discard: 12/03/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

G-02W SDG#: ATH04-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>		<b>SW-846 6010C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	219	4.02	5
<b>Wet Chemistry</b>		<b>SM20 2540 G</b>	<b>%</b>	<b>%</b>	
00118	Moisture	n.a.	25.4	0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	093020637001	10/30/2009 09:03	Joanne M Gates	5
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	093020637001	10/29/2009 21:20	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	09302820006A	10/29/2009 18:18	Scott W Freisher	1

**Sample Description: G-2WMSD Matrix Spike Dup Grab Soil Sample  
Old Athens Turnpike, WV**

**LLI Sample # SW 5820117  
LLI Group # 1168576  
WV**

**Project Name: Old Athens Turnpike, WV**

Collected: 10/27/2009 10:47 by GR

Account Number: 11716

Submitted: 10/29/2009 09:10

Norfolk Southern Railway Co

Reported: 11/02/2009 at 10:32

110 Franklin Road SE

Discard: 12/03/2009

Box 13

Roanoke VA 24042-0013

G-02W SDG#: ATH04-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 193	mg/kg 4.02	5
<b>Wet Chemistry</b>					
00118	Moisture	SM20 2540 G n.a.	% 25.4	% 0.50	1

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	093020637001	10/30/2009 09:06	Joanne M Gates	5
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	093020637001	10/29/2009 21:20	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	09302820006A	10/29/2009 18:18	Scott W Freisher	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: G-2WDUP Duplicate Grab Soil Sample  
Old Athens Turnpike, WV

LLI Sample # SW 5820118  
LLI Group # 1168576  
WV

Project Name: Old Athens Turnpike, WV

Collected: 10/27/2009 10:47 by GR

Account Number: 11716

Submitted: 10/29/2009 09:10  
Reported: 11/02/2009 at 10:32  
Discard: 12/03/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

G-02W SDG#: ATH04-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>		<b>SW-846 6010C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	162	4.02	5
<b>Wet Chemistry</b>		<b>SM20 2540 G</b>	<b>%</b>	<b>%</b>	
00118	Moisture	n.a.	25.4	0.50	1
00121	Moisture Duplicate	n.a.	24.8	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	2	093020637001	10/30/2009 09:00	Joanne M Gates	5
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	093020637001	10/29/2009 21:20	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	09302820006A	10/29/2009 18:18	Scott W Freisher	1
00121	Moisture Duplicate	SM20 2540 G	1	09302820006A	10/29/2009 18:18	Scott W Freisher	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: G-9N Grab Soil Sample  
Old Athens Turnpike, WV

LLI Sample # SW 5820119  
LLI Group # 1168576  
WV

Project Name: Old Athens Turnpike, WV

Collected: 10/27/2009 11:00 by GR

Account Number: 11716

Submitted: 10/29/2009 09:10

Norfolk Southern Railway Co

Reported: 11/02/2009 at 10:32

110 Franklin Road SE

Discard: 12/03/2009

Box 13

Roanoke VA 24042-0013

G-09N SDG#: ATH04-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 322	mg/kg 0.659	1
<b>Wet Chemistry</b>					
00111	Moisture	SM20 2540 G n.a.	% 12.5	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	093020637001	10/30/2009 05:16	John W Yanzuk II	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	093020637001	10/29/2009 21:20	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09302820006A	10/29/2009 18:18	Scott W Freisher	1

**Sample Description:** G-11P Grab Soil Sample  
Old Athens Turnpike, WV

LLI Sample # SW 5820120  
LLI Group # 1168576  
WV

**Project Name:** Old Athens Turnpike, WV

Collected: 10/27/2009 11:05 by GR

Account Number: 11716

Submitted: 10/29/2009 09:10

Norfolk Southern Railway Co

Reported: 11/02/2009 at 10:32

110 Franklin Road SE

Discard: 12/03/2009

Box 13

Roanoke VA 24042-0013

G-11P SDG#: ATH04-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 434	mg/kg 0.652	1
<b>Wet Chemistry</b>					
00111	Moisture	SM20 2540 G n.a.	% 10.6	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	093020637001	10/30/2009 05:20	John W Yanzuk II	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	093020637001	10/29/2009 21:20	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09302820006A	10/29/2009 18:18	Scott W Freisher	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

**Sample Description:** G-11W Grab Soil Sample  
Old Athens Turnpike, WV

LLI Sample # SW 5820121  
LLI Group # 1168576  
WV

**Project Name:** Old Athens Turnpike, WV

Collected: 10/27/2009 11:05 by GR

Account Number: 11716

Submitted: 10/29/2009 09:10  
Reported: 11/02/2009 at 10:32  
Discard: 12/03/2009

Norfolk Southern Railway Co  
110 Franklin Road SE  
Box 13  
Roanoke VA 24042-0013

G-11W SDG#: ATH04-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
		SW-846 6010C	mg/kg	mg/kg	
06955	Lead	7439-92-1	404	0.667	1
<b>Wet Chemistry</b>					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	11.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	093020637001	10/30/2009 05:29	John W Yanzuk II	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	093020637001	10/29/2009 21:20	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09302820006A	10/29/2009 18:18	Scott W Freisher	1

**Sample Description:** G-13E Grab Soil Sample  
Old Athens Turnpike, WV

**LLI Sample #** SW 5820122  
**LLI Group #** 1168576  
WV

**Project Name:** Old Athens Turnpike, WV

**Collected:** 10/27/2009 11:05 by GR

**Account Number:** 11716

**Submitted:** 10/29/2009 09:10

Norfolk Southern Railway Co

**Reported:** 11/02/2009 at 10:32

110 Franklin Road SE

**Discard:** 12/03/2009

Box 13

Roanoke VA 24042-0013

G-13E SDG#: ATH04-05\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>					
06955	Lead	SW-846 6010C 7439-92-1	mg/kg 278	mg/kg 0.737	1
<b>Wet Chemistry</b>					
00111	Moisture	SM20 2540 G n.a.	% 21.0	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010C	1	093020637001	10/30/2009 05:31	John W Yanzuk II	1
10637	SW SW846 (IV) ICP Digest	SW-846 3050B	1	093020637001	10/29/2009 21:20	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09302820006A	10/29/2009 18:18	Scott W Freisher	1

## Quality Control Summary

 Client Name: Norfolk Southern Railway Co  
 Reported: 11/02/09 at 10:32 AM

Group Number: 1168576

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 093020637001	Sample number(s): 5820115-5820122							
Lead	N.D.	0.600	mg/kg	95		85-114		
Batch number: 09302820006A	Sample number(s): 5820115-5820122							
Moisture				100		99-101		
Moisture				100		99-101		
Moisture Duplicate				100		99-101		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 093020637001	Sample number(s): 5820115-5820122 UNSPK: 5820115 BKG: 5820115								
Lead	130 (2)	2 (2)	75-125	12	20	144	121	18	20
Batch number: 09302820006A	Sample number(s): 5820115-5820122 BKG: 5820115								
Moisture						25.4	24.8	2	15
Moisture						25.4	24.8	2	15
Moisture Duplicate						25.4	24.8	2	15

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only

COC # 0093966

Acc. # 11716 Group # 1168576 Sample # S82015-22

Please print. Instructions on reverse side correspond with circled numbers.

-9-WY-PRIN-SAD8

<p>1 Client: <u>NSRC/Imm&amp;A</u> Acct. #: _____</p> <p>Project Name: <u>Old Athens (NS1691)</u> PWSID #: _____</p> <p>Project Manager: <u>George Robertson</u> P.O. #: _____</p> <p>Sampler: <u>GR/JS</u> Quote #: _____</p> <p>Name of state where samples were collected: <u>West Virginia</u></p>		<p>2 Sample Identification</p> <p><u>G-2W</u> <u>10/27</u> <u>10:47</u> <u>X</u></p> <p><u>G-2W MS</u> <u>10:47</u> <u>10:47</u> <u>X</u></p> <p><u>G-2W MSD</u> <u>10:47</u> <u>10:47</u> <u>X</u></p> <p><u>G-9N</u> <u>11:00</u> <u>11:00</u> <u>X</u></p> <p><u>G-11P</u> <u>11:05</u> <u>11:05</u> <u>X</u></p> <p><u>G-11W</u> <u>11:05</u> <u>11:05</u> <u>X</u></p> <p><u>G-13E</u> <u>11:05</u> <u>11:05</u> <u>X</u></p>		<p>3 Name of Government</p> <p><u>Total Pb</u></p>		<p>4 Analyte</p>		<p>5 For Lab Use Only</p> <p>FSC: _____</p> <p>SCR #: _____</p>		<p>6 Temperature of Analysis</p>	
<p>7 Turnaround Time Requested (TAT) (please circle): Normal (Rush)</p> <p>(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)</p> <p>Date results are needed: <u>10/30/09</u></p> <p>Rush results requested by (please circle): Phone Fax (E-mail)</p> <p>Phone #: <u>276.322.5467</u> Fax #: <u>276.322.1510</u></p> <p>E-mail address: <u>george.robertson@wva.gov</u></p>		<p>Requisitioned by: <u>Wash Sexton</u></p> <p>Date: <u>10/28</u> Time: <u>15:25</u></p> <p>Received by: _____ Date: _____ Time: _____</p>		<p>Requisitioned by: <u>April Sexton</u></p> <p>Date: <u>10/28</u> Time: <u>15:25</u></p> <p>Received by: _____ Date: _____ Time: _____</p>		<p>Requisitioned by: _____</p> <p>Date: _____ Time: _____</p> <p>Received by: _____ Date: _____ Time: _____</p>		<p>Requisitioned by: _____</p> <p>Date: _____ Time: _____</p> <p>Received by: _____ Date: _____ Time: _____</p>			
<p>8 Data Package Options (please circle if required)</p> <p>QC Summary Type VI (Raw Data) Yes No</p> <p>Type I (Tier I) Site-specific QC required? Yes No</p> <p>Type II (Tier II) Other (If yes, indicate QC sample and submit triplicate volume.)</p> <p>Type III (NJ Red. Del.) Internal Chain of Custody required? Yes No</p> <p>Type IV (CLP)</p>		<p>Requisitioned by: _____</p> <p>Date: _____ Time: _____</p> <p>Received by: _____ Date: _____ Time: _____</p>		<p>Requisitioned by: _____</p> <p>Date: _____ Time: _____</p> <p>Received by: _____ Date: _____ Time: _____</p>		<p>Requisitioned by: _____</p> <p>Date: _____ Time: _____</p> <p>Received by: _____ Date: _____ Time: _____</p>		<p>Requisitioned by: _____</p> <p>Date: _____ Time: _____</p> <p>Received by: _____ Date: _____ Time: _____</p>			

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<b>+</b>	Correlation coefficient for MSA <0.995

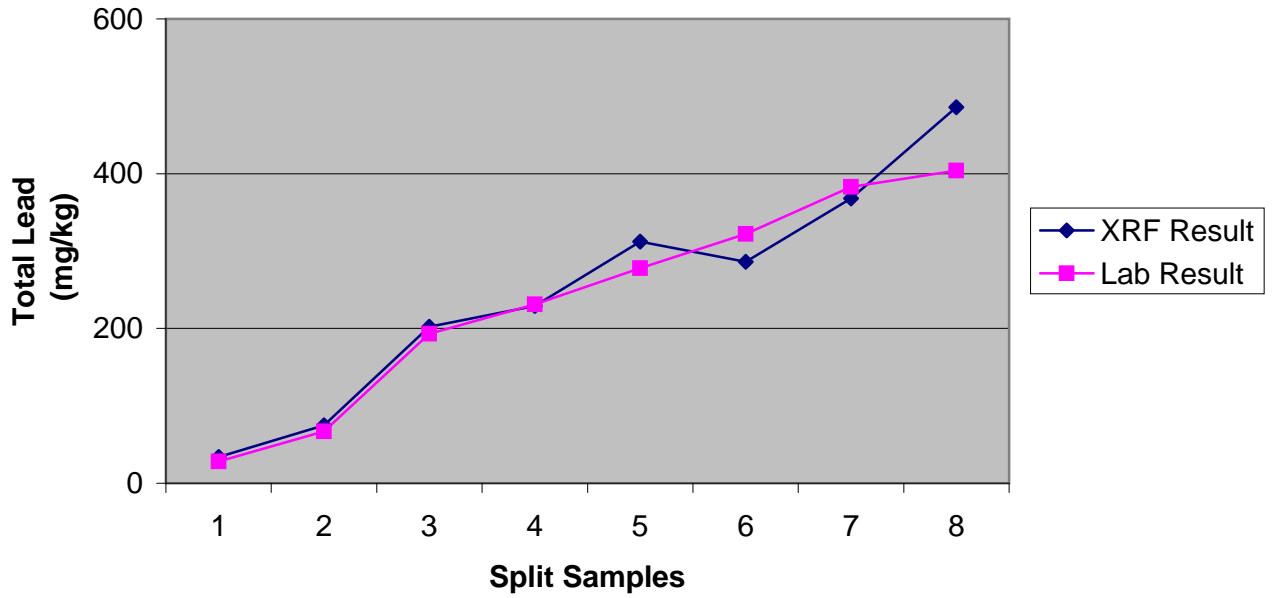
Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

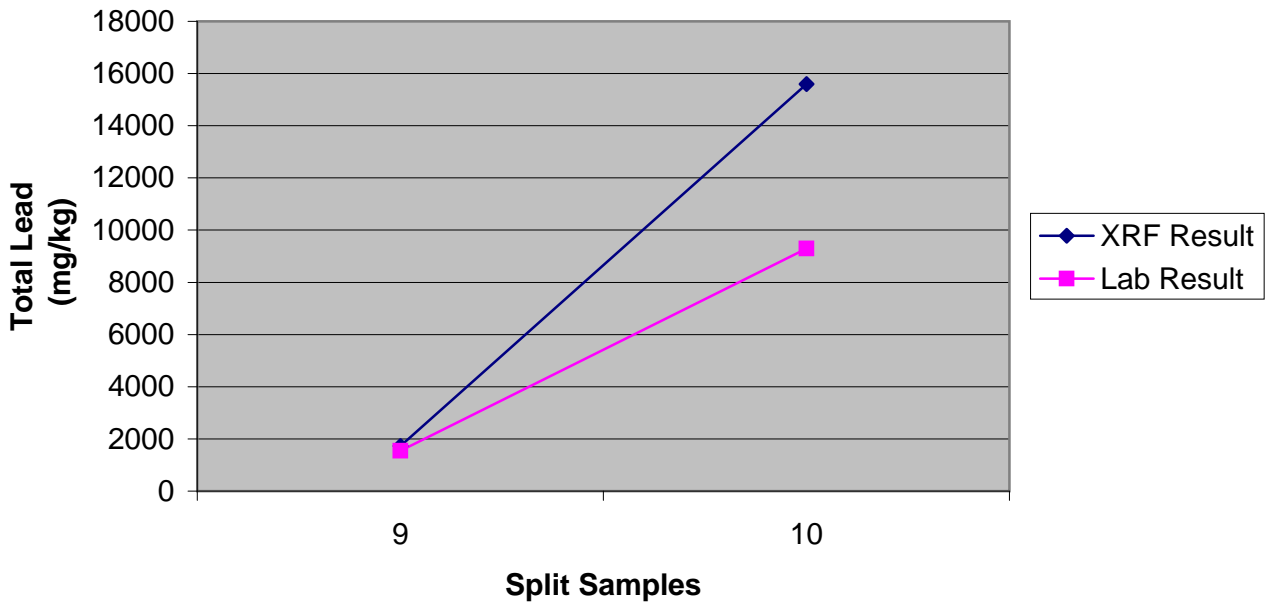
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*Appendix E*  
*Data Validation Reports*

**Figure 1, Appendix E**  
**XRF vs Laboratory Results**  
**(Lower Lead Concentration Samples)**



**Figure 1, Appendix E (Continued)**  
**XRF vs Laboratory Results**  
**(Higher Lead Concentration Samples)**



## RELEASE OF VALIDATED DATA

Project: Old Athens Turnpike Site, Princeton, WV  
Date: August 6, 2009  
Lab Job Number: Lancaster 1158835  
Reviewer: George A. Robertson

Validation was performed on the total lead analytical results for five samples that were collected on August 6, 2009 and analyzed by Lancaster Laboratories of Lancaster, Pennsylvania using a SW-846 method. The data validation was performed in accordance with the *Region III Modifications to National Functional Guidelines (Inorganics - 4/93)*, as applied to SW-846 methodology.

### **SAMPLE RECEIPT**

**Preservatives:** The cooler temperature upon receipt at the laboratory was 2.2 °C, within the 2-6 °C criteria.

### **METALS (total lead only)**

**Method:** SW-846 Method 6010B

**Holding Time:** The holding time requirement is 180 days for all target metals. All of the samples were analyzed within the holding times.

**Initial and Continuing Calibration Verification:** The initial calibration verifications (ICVs) and continuing calibration verifications (CCVs) met the 90-110% criteria.

**Blanks:** No target metals were detected in calibration or preparation blanks associated with the soil samples.

**ICP Interference Check:** All target metals met the inductively-coupled plasma (ICP) interference check criteria of 80-120%.

**Matrix spikes:** The matrix spike performed on sample G-1B MS met the 75-125% criteria.

**Duplicates:** The duplicate results from sample G-1B MSD which had a relative percent difference (RPD) of 0% and met the criteria of < 20%.

**Laboratory Control Sample:** The laboratory control sample (LCS) associated with these samples met the 85-114% recovery criteria.

**Serial Dilution:** The serial dilution met the criteria (<10%) for results >100 times the method detection limit.

**Field Duplicates:** The duplicate pair in this data package included G-7E. The RPD was 22% and this met the < 50% RPD or  $\pm 2X$  method detection limit (MDL) criteria.

**Raw Data Review:** Raw data review could not be performed.

**Summary:** All of the metals results were acceptable as reported with no qualifications.

## RELEASE OF VALIDATED DATA

Project: Old Athens Turnpike Site, Princeton, WV  
Sample Collection Date: August 6, 2009  
Analytical Job Number: XRF 080609  
Reviewer: George A. Robertson

Validation was performed on the total lead analytical results for 87 solid samples collected at the Old Athens Turnpike Site in Princeton, West Virginia on August 6, 2009. 87 samples were analyzed using an x-ray fluorescence analyzer (XRF) Niton Model XL3t 500, Serial Number 30887. Splits of five out of 87 samples were analyzed by Lancaster Laboratories of Lancaster, Pennsylvania using a SW-846 method. The data validation for the five split samples was performed in accordance with the *Region III Modifications to National Functional Guidelines (Inorganics - 4/93)*, as applied to SW-846 methodology and reported separate from this report. Data Validation for the 87 XRF analyses was performed in accordance with USEPA Method 6200.

### **METALS (total lead only)**

**Method:** USEPA Method 6200

**Holding Time:** The holding time requirement is 180 days for metals. All of the samples were analyzed within the holding time requirement.

**Initial and Continuing Calibration Verification:** low, medium, high and lead XRF standards were analyzed at the beginning and end of the day to ensure the accuracy of the instrument, assess the stability and verify the consistency of the analyses. The initial calibration verification (ICV) and continuing calibration verification (CCV) met the 20% criterion.

**Blanks:** No target metals were detected in calibration (instrument) blanks or method blanks.

**Precision Check:** Seven replicate analyses were performed on precision samples in the low, medium and high concentration ranges. All relative standard deviations were less than 20%.

**XRF Duplicates:** The duplicate pairs in this data package included G-1B - G-1E, G-4A - G-4E, G-7C - G-7E, G-16D - G-16E and G-22A - G-22E. The XRF RPDs ranged from 1% to 22% and this met the < 50% RPD or  $\pm 2X$  method detection limit (MDL) criteria.

**XRF-Laboratory Duplicates:** The lab duplicates for XRF samples in this data package included G-1B, G-4A, G-7C, G-16D and G-22A. The XRF RPDs ranged from 1% to 7% for four out of five duplicate pairs. The lab duplicate for XRF sample G-7C had an RPD of 51% and was within 1% of the 50% criterion. Soil samples are not true duplicates and are generally referred to as splits. Because four out of five duplicates exhibited minimal variation and the only sample with significant variation was for a very high concentration result, no data qualification is needed.

**Correlation Analysis:** XRF-Laboratory duplicate pairs were analyzed and exhibited a correlation coefficient of 0.997. Data meeting the correlation coefficient of 0.9 criterion are

considered equivalent to a 99% confidence level and may potentially meet definitive level data criterion.

**Summary:** All of the metals results were acceptable as reported with no qualifications.

**DAILY XRF QA/QC LOG for August 19, 2009 (unprepared samples from 8/6/09)  
 Old Athens Turnpike Site, Princeton, West Virginia  
 (XRF Model XL3t 500 Serial Number: 30887)**

Standard or QA/QC Sample Identification	Start of Day Time	End of Day Time	XRF operator	Check Standards		Results		Check Standards		Results		Notes - Operator Initials						
				Start of Day	End of Day	XRF ppm	+/- ppm	Start of Day	End of Day	XRF ppm	+/- ppm							
RCRA Pb	9:47	15:38	Chuck Cline	Start of Day	End of Day	471	25	End of Day	End of Day	496	38	5% difference						
Low Standard Pb	9:49	15:40	Chuck Cline	Start of Day	End of Day	14	7	End of Day	End of Day	14	9	0% difference						
Mid Standard Pb	9:52	15:41	Chuck Cline	Start of Day	End of Day	27	9	End of Day	End of Day	30	12	11% difference						
High Standard Pb	9:54	15:45	Chuck Cline	Start of Day	End of Day	4800	96	End of Day	End of Day	5058	103	5% difference						
QA/QC Precision for seven replicate (Rep.) samples	Time		XRF operator	Rep.1 Result	Rep.2 Result	Rep.3 Result	Rep.4 Result	Rep.5 Result	Rep.6 Result	Rep.7 Result	Relative Standard Deviation (RSD)							
				XRF ppm	+/- ppm	XRF ppm	+/- ppm	XRF ppm	+/- ppm	XRF ppm	+/- ppm	XRF ppm	+/- ppm	XRF ppm	+/- ppm			
				1459	NA	1498	NA	1595	NA	1571	NA	1631	NA	1576	NA	1512	NA	RSD = 3.9% good
				17	NA	22	NA	19	NA	19	NA	21	NA	19	NA	25	NA	RSD = 13.0 % good
Rep. G-22A	14:20		Chuck Cline	NA	54	NA	47	NA	50	NA	55	NA	50	NA	52	NA	RSD = 5.2% good	
Clean Quartz Sand Instrument Blank (1:20 samples)	Time		XRF operator	Split Samples (1:20 samples)		Time		XRF operator		Results		Notes						
Instrument Blank	10:20		Chuck Cline	G-1E (split for G-B)	10:19	Chuck Cline	1459	56	G-1B = 1484 +/- 56									
Instrument Blank	11:06		Chuck Cline	G-4E (split for G-4A)	11:04	Chuck Cline	383	25	G-4A = 416 +/- 26									
Instrument Blank	11:49		Chuck Cline	G-7E (split for G-7C)	11:50	Chuck Cline	7169	116	G-7C = 6816 +/- 111									
Instrument Blank	13:45		Chuck Cline	G-16E (split for G-16D)	13:47	Chuck Cline	213	19	G-16D = 318 +/- 33									
Instrument Blank	14:28		Chuck Cline	G-22E (split for G-22A)	14:25	Chuck Cline	45	11	G22A = 54 +/- 8									

**DAILY XRF QA/QC LOG for August 20, 2009 (prepared samples from 8/6/09)  
 Old Athens Turnpike Site, Princeton, West Virginia  
 (XRF Model XL3t 500 Serial Number: 30887)**

Standard or QA/QC Sample Identification	Start of Day Time	End of Day Time	XRF operator	Check Standards		Results		Check Standards		Results		Notes - Operator Initials													
				XRF ppm	+/- ppm	XRF ppm	+/- ppm	XRF ppm	+/- ppm	XRF ppm	+/- ppm														
RCRA Pb	0941	1410	Chuck Cline		Start of Day	478	36	End of Day	458	36	4% difference														
Low Standard Pb	0942	1412	Chuck Cline		Start of Day	21	9	End of Day	25	8	19% difference														
Mid Standard Pb	0943	1413	Chuck Cline		Start of Day	39	12	End of Day	38	12	3% difference														
High Standard Pb	0944	1414	Chuck Cline		Start of Day	4671	95	End of Day	4919	98	5% difference														
QA/QC Precision for seven replicate (Rep.) samples	Time		XRF operator	Rep.1 Result	XRF ppm	+/- ppm	Rep.2 Result	XRF ppm	+/- ppm	Rep.3 Result	XRF ppm	+/- ppm	Rep.4 Result	XRF ppm	+/- ppm	Rep.5 Result	XRF ppm	+/- ppm	Rep.6 Result	XRF ppm	+/- ppm	Rep.7 Result	XRF ppm	+/- ppm	Relative Standard Deviation (RSD)
				XRF ppm	1727	54	1760	55	1778	56	1726	55	1777	56	1796	56	1768	56	RSD = 1.5% good						
				XRF ppm	21	9	13	9	14	9	15	9	19	9	16	9	19	9	RSD = 17.9 good						
				XRF ppm	80	13	85	20	83	18	83	16	69	13	88	14	84	13	RSD = 7.5% good						
Clean Quartz Sand Instrument Blank (1:20 samples)	Time		XRF operator	Results	XRF ppm	+/- ppm	Split Samples (1:20 samples)	Time	XRF operator	Results	XRF ppm	+/- ppm	Notes												
Instrument Blank	0938		Chuck Cline	<7.8	NA	G-1E (split for G-1B)	1054	Chuck Cline	1741	55	G-1B = 1727 +/- 54														
Instrument Blank	1016		Chuck Cline	<8.0	NA	G-4E (split for G-4A)	1015	Chuck Cline	395	26	G-4A = 368 +/- 25														
Instrument Blank	1038		Chuck Cline	<7.3	NA	G-7E (split for G-7C)	1036	Chuck Cline	12500	200	G-7C = 15600 +/- 200														
Instrument Blank	1328		Chuck Cline	<7.6	NA	G-16E (split for G-16D)	1327	Chuck Cline	224	19	G-16D = 229 +/- 19														
Instrument Blank	1352		Chuck Cline	<7.0	NA	G-22E (split for G-22A)	1348	Chuck Cline	80	13	G-22A = 75 +/- 13														

## RELEASE OF VALIDATED DATA

Project: Old Athens Turnpike Site, Princeton, WV  
Date: September 24, 2009  
Lab Job Number: Lancaster 1165716  
Reviewer: George A. Robertson

Validation was performed on the total lead analytical results for one sample that was collected on September 24, 2009 and analyzed by Lancaster Laboratories of Lancaster, Pennsylvania using SW-846 Method 6010C. The data validation was performed in accordance with the *Region III Modifications to National Functional Guidelines (Inorganics - 4/93)*, as applied to SW-846 methodology.

### **SAMPLE RECEIPT**

**Preservatives:** The cooler temperature upon receipt at the laboratory was within the 2-6 °C criteria.

### **METALS (total lead only)**

**Method:** SW-846 Method 6010C

**Holding Time:** The holding time requirement is 180 days for all target metals. All of the samples were analyzed within the holding times.

**Initial and Continuing Calibration Verification:** The initial calibration verifications (ICVs) and continuing calibration verifications (CCVs) met the 80-120% criteria.

**Blanks:** No target metals were detected in calibration or preparation blanks associated with the soil samples.

**ICP Interference Check:** All target metals met the inductively-coupled plasma (ICP) interference check criteria of 80-120%.

**Matrix spikes:** The matrix spike performed on sample G-34C MS was 130%, which is slightly above the 75-125% criteria. However, the results of lead in sample G-34C should be considered biased high.

**Duplicates:** The duplicate results from sample G-34C MSD which had a relative percent difference (RPD) of 11% and met the criteria of < 20%. The laboratory duplicate sample (5801846DUP) had an RPD of 7% and met the criteria.

**Laboratory Control Sample:** The laboratory control sample (LCS) associated with these samples met the 85-114% recovery criteria.

**Serial Dilution:** The serial dilution met the criteria (<10%) for results >100 times the method detection limit.

**Field Duplicates:** The duplicate pair in this data package included G-34C – G-34E. The RPD was 5% and this met the < 50% RPD or  $\pm 2X$  method detection limit (MDL) criteria.

**Raw Data Review:** Raw data review could not be performed.

**Summary:** Due slightly high spike recovery (130%), the analytical result for lead in sample G-34C should be considered biased high. This QC excursion does not result in any of the data being rejected. All of the metals results were acceptable as reported.

## RELEASE OF VALIDATED DATA

Project: Old Athens Turnpike Site, Princeton, WV  
Sample Collection Date: September 24, 2009  
Analytical Job Number: XRF 092409  
Reviewer: George A. Robertson

Validation was performed on the total lead analytical results for 12 soil samples collected at the Old Athens Turnpike Site in Princeton, West Virginia on September 24, 2009. 12 samples were analyzed using an x-ray fluorescence analyzer (XRF) Niton Model XL3t 600, Serial Number 31094. One split from the 12 samples was analyzed by Lancaster Laboratories of Lancaster, Pennsylvania using a SW-846 method. The data validation for the split sample was performed in accordance with the *Region III Modifications to National Functional Guidelines (Inorganics - 4/93)*, as applied to SW-846 methodology and reported separate from this report. Data Validation for the 12 XRF analyses was performed in accordance with USEPA Method 6200.

### **METALS (total lead only)**

**Method:** USEPA Method 6200

**Holding Time:** The holding time requirement is 180 days for metals. All of the samples were analyzed within the holding time requirement.

**Initial and Continuing Calibration Verification:** low, medium, high and lead XRF standards were analyzed at the beginning and end of the day to ensure the accuracy of the instrument, assess the stability and verify the consistency of the analyses. The initial calibration verification (ICV) and continuing calibration verification (CCV) met the 20% criterion.

**Blanks:** No target metals were detected in calibration (instrument) blanks or method blanks.

**Precision Check:** Seven replicate analyses were performed on precision samples in the low, medium and high concentration ranges. All relative standard deviations were less than 20%.

**XRF Duplicates:** The duplicate pair G-34C – G-34E had a RPD of 27% and this met the < 50% RPD or  $\pm 2X$  method detection limit (MDL) criteria.

**XRF-Laboratory Duplicates:** The lab duplicate for XRF sample G-34C had a RPD of 19% and this met the < 50% RPD or  $\pm 2X$  method detection limit (MDL) criteria.

**Correlation Analysis:** XRF-Laboratory duplicate pairs were analyzed and varied by less than an order of magnitude. Log transformation to standardize variance was not needed.

**Summary:** All of the metals results were acceptable as reported with no qualifications.





## RELEASE OF VALIDATED DATA

Project: Old Athens Turnpike Site, Princeton, WV  
Date: October 27, 2009  
Lab Job Number: Lancaster 1168576  
Reviewer: George A. Robertson

Validation was performed on the total lead analytical results for one sample that was collected on October 27, 2009 and analyzed by Lancaster Laboratories of Lancaster, Pennsylvania using SW-846 Method 6010C. The data validation was performed in accordance with the *Region III Modifications to National Functional Guidelines (Inorganics - 4/93)*, as applied to SW-846 methodology.

### **SAMPLE RECEIPT**

**Preservatives:** The cooler temperature upon receipt at the laboratory was chilled within the 2-6 °C criteria.

### **METALS (total lead only)**

**Method:** SW-846 Method 6010C

**Holding Time:** The holding time requirement is 180 days for all target metals. All of the samples were analyzed within the holding times.

**Initial and Continuing Calibration Verification:** The initial calibration verifications (ICVs) and continuing calibration verifications (CCVs) met the 90-110% criteria.

**Blanks:** No target metals were detected in calibration or preparation blanks associated with the soil samples.

**ICP Interference Check:** All target metals met the inductively-coupled plasma (ICP) interference check criteria of 80-120%.

**Matrix spikes:** The matrix spike performed on sample G-2W MS was 130%, which is slightly above the 75-125% criteria. This indicates that the results of lead in sample G-2W should be considered biased high.

**Duplicates:** The duplicate results from sample G-2W MSD which had a relative percent difference (RPD) of 2% and met the criteria of < 20%. The laboratory duplicate sample (5820118DUP) had an RPD of 18% and met the criteria.

**Laboratory Control Sample:** The laboratory control sample (LCS) associated with these samples met the 85-114% recovery criteria.

**Serial Dilution:** The serial dilution met the criteria (<10%) for results >100 times the method detection limit.

**Field Duplicates:** The duplicate pair in this data package included G-11W – G-11P. The RPD was 7% and this met the < 50% RPD or  $\pm 2X$  method detection limit (MDL) criteria.

**Raw Data Review:** Raw data review could not be performed.

**Summary:** Due slightly high spike recovery (130%), the analytical result for lead in sample G-2W should be considered biased high. This QC excursion does not result in any of the data being rejected. All of the metals results were acceptable as reported.

## RELEASE OF VALIDATED DATA

Project: Old Athens Turnpike Site, Princeton, WV  
Sample Collection Date: October 27, 2009  
Analytical Job Number: XRF 102709  
Reviewer: George A. Robertson

Validation was performed on the total lead analytical results for 14 soil samples collected at the Old Athens Turnpike Site in Princeton, West Virginia on October 27, 2009. 14 samples were analyzed using an x-ray fluorescence analyzer (XRF) Niton Model XL3t 600, Serial Number 31094. Two split from the 14 samples was analyzed by Lancaster Laboratories of Lancaster, Pennsylvania using a SW-846 method. The data validation for the two split samples was performed in accordance with the *Region III Modifications to National Functional Guidelines (Inorganics - 4/93)*, as applied to SW-846 methodology and reported separate from this report. Data Validation for the 14 XRF analyses was performed in accordance with USEPA Method 6200.

### **METALS (total lead only)**

**Method:** USEPA Method 6200

**Holding Time:** The holding time requirement is 180 days for metals. All of the samples were analyzed within the holding time requirement.

**Initial and Continuing Calibration Verification:** low, medium, high and lead XRF standards were analyzed at the beginning and end of the day to ensure the accuracy of the instrument, assess the stability and verify the consistency of the analyses. The initial calibration verification (ICV) and continuing calibration verification (CCV) met the 20% criterion.

**Blanks:** No target metals were detected in calibration (instrument) blanks or method blanks.

**Precision Check:** Seven replicate analyses were performed on precision samples in the low, medium and high concentration ranges. All relative standard deviations were less than 20%.

**XRF Duplicates:** The duplicate pairs, G-9n – G-9p and G-11w – G-11p, had RPDs of 5% and 10% and met the < 50% RPD or  $\pm 2X$  method detection limit (MDL) criteria.

**XRF-Laboratory Duplicates:** The lab duplicates for XRF samples G-9n and G-11w, had RPDs of 12% and 18% and met the < 50% RPD or  $\pm 2X$  method detection limit (MDL) criteria.

**Correlation Analysis:** XRF-Laboratory duplicate pairs were analyzed and varied by less than an order of magnitude. Log transformation to standardize variance was not needed.

**Summary:** All of the metals results were acceptable as reported with no qualifications.



*Appendix F*  
*Manifests and Certificates of Recycling/Disposal*



## CERTIFICATE OF TREATMENT AND DISPOSAL

*MAX Environmental Technologies, Inc.,  
acknowledges that the following waste was  
treated, rendered non-hazardous and  
disposed of properly in accordance with  
local state and federal regulations.*

<b>Waste Description:</b>	D008
<b>Generator Name:</b>	NORFORK SOUTHERN
<b>EPA ID #:</b>	WVP000003957
<b>Date Received:</b>	09/30/09
<b>Manifest Document #:</b>	005342899 JJK

**TSD Facility Name:**  
MAX Environmental Technologies, Inc.  
**Address:** 233 Max Lane  
Yukon, PA 15698

**EPA ID #:** PAD 004 835146  
**Phone #:** (724) 722-3500

## CERTIFICATE OF TREATMENT AND DISPOSAL

*MAX Environmental Technologies, Inc.,  
acknowledges that the following waste was  
treated, rendered non-hazardous and  
disposed of properly in accordance with  
local state and federal regulations.*

<b>Waste Description:</b>	D008	
<b>Generator Name:</b>	NORFORK SOUTHERN	
<b>EPA ID #:</b>	WVP000003957	
<b>Date Received:</b>	10/02/09	10/06/09
<b>Manifest Document #:</b>	005342900 JJK	005342903 JJK
	005342901 JJK	005342904 JJK
	005342902 JJK	005343905 JJK

**TSD Facility Name:**  
**MAX Environmental Technologies, Inc.**  
**Address: 233 Max Lane**  
**Yukon, PA 15698**

**EPA ID #: PAD 004 835146**  
**Phone #: (724) 722-3500**

# CERTIFICATE OF TREATMENT AND DISPOSAL

*MAX Environmental Technologies, Inc.,  
acknowledges that the following waste was  
treated, rendered non-hazardous and  
disposed of properly in accordance with  
local state and federal regulations.*

<b>Waste Description:</b>	D008		
<b>Generator Name:</b>	NORFORK SOUTHERN		
<b>EPA ID #:</b>	WVP000003957		
<b>Date Received:</b>	10/07/09	10/08/09	10/09/09
<b>Manifest Document #:</b>	005342906 JJK 005342907 JJK 005342908 JJK	005342909 JJK	005342910 JJK

**TSD Facility Name:**  
MAX Environmental Technologies, Inc.  
**Address:** 233 Max Lane  
Yukon, PA 15698

**EPA ID #:** PAD 004 835146  
**Phone #:** (724) 722-3500

Date		Tons	Certificate
9/30/2009	005342899 JJK	20.51	yes
10/1/2009	005342900 JJK	21.69	yes
10/2/2009	005342901 JJK	24.74	yes
10/2/2009	005342902 JJK	22.72	yes
10/6/2009	005342903 JJK	23.58	yes
10/6/2009	005342904 JJK	27.73	yes
10/6/2009	005342905 JJK	18.64	yes
10/7/2009	005342906 JJK	24.52	yes
10/7/2009	005342907 JJK	17.29	yes
10/7/2009	005342908 JJK	17.27	yes
10/8/2009	005342909 JJK	22.98	yes
10/9/2009	005342910 JJK	23.91	yes
10/12/2009	005342911 JJK	21.81	
10/12/2009	005342912 JJK	23.23	
10/12/2009	005342913 JJK	23.44	
10/13/2009	005342914 JJK	22.06	
10/13/2009	005342915 JJK	24.63	
10/13/2009	005342916 JJK	24.53	
10/13/2009	005342917 JJK	24.21	
10/14/2009	005342918 JJK	24.57	
10/14/2009	005342919 JJK	24.45	
10/14/2009	005342920 JJK	24.73	
10/19/2009	005342921 JJK	24.53	
TOTAL		527.77	

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>8004248802</b>	4. Manifest Tracking Number <b>005342921 JJK</b>	
5. Generator's Name and Mailing Address <b>Morfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>			Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4236 24042-0013</b>						
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>				U.S. EPA ID Number <b>PAD987347515</b>		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>				U.S. EPA ID Number <b>PAD004335146</b>		
Facility's Phone: <b>(724)722-3500</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>EST 23</b>	<b>Tons</b>	<b>D000</b>
14. Special Handling Instructions and Additional Information <b>GIS # 5578 ERG # 171</b>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name <b>Chuck Cline agent for NSRC</b>				Signature <i>[Signature]</i>		Month Day Year <b>11 19 09</b>
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <b>Tim Hamman</b>				Signature <i>[Signature]</i>		Month Day Year <b>10 19 09</b>
Transporter 2 Printed/Typed Name				Signature		Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: <b>Actual weight 49060 P</b>						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. <b>11111</b>	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name <b>LANA P. P. [Signature]</b>				Signature <i>[Signature]</i>		Month Day Year <b>10 17 09</b>

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342920 JJK</b>		
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company</b> <b>110 Franklin Road, SE, Box 13, Roanoke, VA</b>				Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site</b> <b>Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4238</b> <b>24042-0013</b>							
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>					U.S. EPA ID Number <b>PAD987347515</b>		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc.</b> <b>233 MAX Lane</b> <b>Yukon, PA 15693</b>					U.S. EPA ID Number <b>PAD004835146</b>		
Facility's Phone: <b>(724)722-3500</b>							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>23</b>	<b>Tons</b>	<b>D003</b>	
14. Special Handling Instructions and Additional Information <b>GIS # 5578</b> <b>ERG # 171</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <b>K G Henschel</b>				Signature <i>K G Henschel</i>		Month Day Year <b>10/14/09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.    Port of entry/exit: _____ Transporter signature (for exports only): _____    Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>Tim Hamman</b>				Signature <i>Tim Hamman</i>		Month Day Year <b>10/14/09</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: <b>49460 P</b>							
18b. Alternate Facility (or Generator) <b>490</b>						U.S. EPA ID Number	
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>101</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <b>John T. Smith</b>				Signature <i>John T. Smith</i>		Month Day Year <b>10/14/09</b>	

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>18004248802</b>	4. Manifest Tracking Number <b>005342919 JJK</b>		
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>				Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4236 24042-0013</b>							
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>					U.S. EPA ID Number <b>PAD987347515</b>		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>					U.S. EPA ID Number <b>PAD004835146</b>		
Facility's Phone: <b>(724)722-3500</b>							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, MA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>55 23</b>	<b>Tons</b>	<b>D003</b>	
14. Special Handling Instructions and Additional Information <b>GIS # 5578 ERG # 171</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name <b>KG Housh...</b>				Signature <i>KG Housh...</i>		Month Day Year <b>10   14   09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>Seth W. Hingenbeller</b>				Signature <i>Seth W. Hingenbeller</i>		Month Day Year <b>10   14   09</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: <b>Actual Weight 48900 P</b>							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>11 111</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <b>...</b>				Signature <i>...</i>		Month Day Year <b>10   14   09</b>	

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVF000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone	4. Manifest Tracking Number <b>005342918 JJK</b>	
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>			Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4236 24042-0013</b>			U.S. EPA ID Number <b>PAD907347515</b>			
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>			U.S. EPA ID Number <b>PAD004835146</b>			
Facility's Phone: <b>(724)722-3500</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>25-23</b>	<b>lbs</b>	<b>D008</b>
14. Special Handling Instructions and Additional Information <b>GIS # 5578 ERG # 171</b>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name <b>K G HAWKINS</b>			Signature <i>K G Hawkins</i>		Month Day Year <b>10 14 09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <b>Robert Mosier</b>			Signature <i>Robert Mosier</i>		Month Day Year <b>10 14 09</b>	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection <b>Item 3 should be noted out</b> Manifest Reference Number: <b>Actual weight 49140 P</b> <b>1-800-224-9302</b>						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. <b>H 111</b>		2.		3.		4.
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name <b>LANA P.../</b>			Signature <i>[Signature]</i>		Month Day Year <b>10 14 09</b>	

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone	4. Manifest Tracking Number <b>005342917 JJK</b>		
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 119 Franklin Road, SE, Box 13, Roanoke, VA</b>				Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4236 24042-0013</b>				U.S. EPA ID Number <b>PAD987347515</b>			
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>				U.S. EPA ID Number <b>PAD004835145</b>			
Facility's Phone: <b>(724)722-3500</b>							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>EST 23</b>	<b>Tons</b>	<b>14028</b>	
14. Special Handling Instructions and Additional Information <b>GIS # 5578 ERG # 171</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <b>K G HAWCHILDT</b>				Signature <i>K G Hawchildt</i>		Month Day Year <b>11 13 09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>SEM W. LINGENBELTER</b>				Signature <i>SEM W. LINGENBELTER</i>		Month Day Year <b>11 13 09</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection <b>EFF-3 SHOULD BE AN 1-800-421-3302</b> Manifest Reference Number: <b>ACTUAL WEIGHT 48420 P</b>							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>H 111</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <b>LANNY PROTEG</b>				Signature <i>LANNY PROTEG</i>		Month Day Year <b>11 13 09</b>	

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<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone	4. Manifest Tracking Number <b>005342916 JJK</b>		
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company</b> <b>110 Franklin Road, SE, Box 13, Roanoke, VA</b> Generator's Phone: <b>(540)981-4236 24042-0013</b>				Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site</b> <b>Princeton, WV 24710</b>			
6. Transporter 1 Company Name <b>U S Bulk Transport, Inc.</b>				U.S. EPA ID Number <b>PAD987347515</b>			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc.</b> <b>233 MAX Lane</b> <b>Yukon, PA 15698</b> Facility's Phone: <b>(724)722-3500</b>				U.S. EPA ID Number <b>PAD004835146</b>			
9a HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. <b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	001	DT	<b>Est 23</b>	<b>Dr</b>	<b>D008</b>	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information <b>GIS # 5578</b> <b>ERG # 171</b>							
15. <b>GENERATOR'S/OFFEROR'S CERTIFICATION:</b> I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <b>K G Hauschildt</b>				Signature <i>K G Hauschildt</i>		Month Day Year <b>10 13 09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>Robert Mestor</b>				Signature <i>Robert Mestor</i>		Month Day Year <b>10 13 09</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection <b>Item 3 shown known</b> <b>Actual weight 49060 P</b>							
18b. Alternate Facility (or Generator) Facility's Phone: _____				Manifest Reference Number: _____ U.S. EPA ID Number: _____			
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>11 111</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <b>Laura Pugh</b>				Signature <i>Laura Pugh</i>		Month Day Year <b>10 13 09</b>	

GENERATOR

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DESIGNATED FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone	4. Manifest Tracking Number <b>005342915 JJK</b>	
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>			Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4236</b>		<b>24042-0013</b>				
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>			U.S. EPA ID Number <b>PAD987347515</b>			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>			U.S. EPA ID Number <b>PAD004835146</b>			
Facility's Phone: <b>(724)722-3500</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
<b>X</b>	<b>1. RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>23</b> <b>Est</b>	<b>Tons</b>	<b>2002</b>
	<b>2.</b>					
	<b>3.</b>					
	<b>4.</b>					
14. Special Handling Instructions and Additional Information <b>GIS # 5678 ERG # 171</b>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name <b>KL HAUSCHULTZ</b>			Signature <i>KL Hauschultz</i>		Month Day Year <b>10   13   09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <b>Tim Hamman</b>			Signature <i>Tim Hamman</i>		Month Day Year <b>10   13   09</b>	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection <b>Item 3 should have actual weight 49260 lb</b>						
18b. Alternate Facility (or Generator)			Manifest Reference Number: _____ U.S. EPA ID Number			
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. <b>H 111</b>		2.		3.		4.
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name <b>LARRY PROTECH</b>			Signature <i>Larry Protech</i>		Month Day Year <b>10   13   09</b>	

GENERATOR

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DESIGNATED FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342914 JJK</b>		
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>				Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)881-4236 24042-0013</b>							
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>				U.S. EPA ID Number <b>PAD987347515</b>			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>				U.S. EPA ID Number <b>PAD004835146</b>			
Facility's Phone: <b>(724)722-3600</b>							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>EST 23</b>	<b>TONS</b>	<b>D008</b>	
14. Special Handling Instructions and Additional Information <b>GIS # 5678 ERG # 171</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name <b>KG Hauschildt</b>				Signature <i>KG Hauschildt</i>		Month Day Year <b>11/13/09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>Richard Miller</b>				Signature <i>Richard Miller</i>		Month Day Year <b>11/13/09</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input checked="" type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: <b>Actual 41120 P</b>							
18b. Alternate Facility (or Generator)						U.S. EPA ID Number	
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>H 111</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <b>LANN, Paul</b>				Signature <i>Paul LANN</i>		Month Day Year <b>11/13/09</b>	

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342913 JJK</b>		
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>				Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4236</b>		<b>24042-0013</b>					
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>					U.S. EPA ID Number <b>PAD987347515</b>		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>					U.S. EPA ID Number <b>PAD004835146</b>		
Facility's Phone: <b>(724)722-3500</b>							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>23</b>	<b>Tons</b>	<b>D008</b>	
14. Special Handling Instructions and Additional Information <b>GIS # 5578 ERG # 171</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <b>George Robertson agent for NSRC</b>				Signature <i>George Robertson for NSRC</i>		Month Day Year <b>10 12 09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>Tim Hamman</b>				Signature <i>Tim Hamman</i>		Month Day Year <b>10 12 09</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)						Manifest Reference Number: <b>Actual weight 4/6990 P</b> U.S. EPA ID Number	
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>H 111</b>		2.		3.		4.	
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <b>Larry Patel</b>				Signature <i>Larry Patel</i>		Month Day Year <b>10 12 09</b>	

GENERATOR

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DESIGNATED FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342912 JJK</b>		
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>				Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4236</b>		<b>24042-0013</b>					
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>					U.S. EPA ID Number <b>PAD987347615</b>		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>					U.S. EPA ID Number <b>PAD004835146</b>		
Facility's Phone: <b>(724)722-3500</b>							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 3, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>EST. 24</b>	<b>TONS</b>	<b>0008</b>	
14. Special Handling Instructions and Additional Information <b>GIS # 5578 ERG # 171</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <b>George Robinson agent for NSRC</b>				Signature <i>[Signature]</i>		Month Day Year <b>10   12   09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>JOE ZALLO</b>				Signature <i>[Signature]</i>		Month Day Year <b>10   12   09</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)						Manifest Reference Number: <b>Actual weight 46760 P</b> U.S. EPA ID Number	
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>H 111</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name <b>Larry Proch</b>				Signature <i>[Signature]</i>		Month Day Year <b>10   12   09</b>	

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342911 JJK</b>	
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>			Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4236 24042-0013</b>						
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>			U.S. EPA ID Number <b>PAD987347515</b>			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>			U.S. EPA ID Number <b>PAD004835146</b>			
Facility's Phone: <b>(724)722-3500</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. <b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	2016	DT	22	TON	D003
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information <b>GIS # 5678 ERG # 171</b>						
15. <b>GENERATOR'S/OFFEROR'S CERTIFICATION:</b> I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name <b>George Robertson agent for NSRC</b>			Signature <i>George Robertson for NSRC</i>		Month Day Year <b>10 12 09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <b>Richard Miller</b>			Signature <i>Richard Miller</i>		Month Day Year <b>10 12 09</b>	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: <b>Actual 43620 P WE-17</b>						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. <b>1111</b>		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name <b>Edgar Probst</b>			Signature <i>Edgar Probst</i>		Month Day Year <b>10 12 09</b>	

GENERATOR  
INT'L  
TRANSPORTER  
DESIGNATED FACILITY

MAX Environmental Technologies, Inc.

Invoice #      Company  
15304        MARS10 - MARSHALL MILLER

Manifest	Load Date	Lbs	Ton	Transporter
005342900JJK	10/02/2009	43380.000	21.690	US Bulk Transports
005342901JJK	10/02/2009	49480.000	24.740	US Bulk Transports
005342902JJK	10/02/2009	45440.000	22.720	US Bulk Transports
005342903JJK	10/06/2009	47160.000	23.580	US Bulk Transports
005342904JJK	10/06/2009	55460.000	27.730	US Bulk Transports
005342905JJK	10/06/2009	37280.000	18.640	US Bulk Transports
005342906JJK	10/07/2009	49040.000	24.520	US Bulk Transports
005342907JJK	10/07/2009	34580.000	17.290	US Bulk Transports
005342908JJK	10/07/2009	34540.000	17.270	US Bulk Transports
005342909JJK	10/08/2009	45960.000	22.980	US Bulk Transports
005342910JJK	10/09/2009	47820.000	23.910	US Bulk Transports
Total Tons.....:			245.070	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342910 JJK</b>
---	---	--------------------------	--	---

5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company</b> <b>110 Franklin Road, SE, Box 13, Roanoke, VA</b>		Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site</b> <b>Princeton, WV 24740</b>
Generator's Phone: <b>(540)981-4236</b> <b>24042-0013</b>		

6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>	U.S. EPA ID Number <b>PAD987347515</b>
---	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc.</b> <b>233 MAX Lane</b> <b>Yukon, PA 15698</b>		U.S. EPA ID Number <b>PAD004835146</b>
Facility's Phone: <b>(724)722-3500</b>		

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. <b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	001	DT	22	Tb15	D008		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information  
**GIS # 5578**  
**ERG # 171**

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offorer's Printed/Typed Name: **K.G. HAUSCHILDT**      Signature: *K.G. Hauschildt*      Month: **10** Day: **9** Year: **09**

16. International Shipments  Import to U.S.  Export from U.S.      Port of entry/exit: \_\_\_\_\_      Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name <b>Richard Miller</b>	Signature <i>Richard Miller</i>	Month: <b>10</b> Day: <b>9</b> Year: <b>09</b>
Transporter 2 Printed/Typed Name	Signature	Month:    Day:    Year:

18. Discrepancy

18a. Discrepancy Indication Space  Quantity  Type  Residue  Partial Rejection  Full Rejection

Manifest Reference Number: **Actual Wt. 47820**      U.S. EPA ID Number: **D**

18b. Alternate Facility (or Generator)      Facility's Phone: \_\_\_\_\_

18c. Signature of Alternate Facility (or Generator)      Month:    Day:    Year:   

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. <b>H 111</b>	2.	3.	4.
-----------------	----	----	----

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

Printed/Typed Name: **LANN PROT**      Signature: *LANN PROT*      Month: **10** Day: **09** Year: **09**

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

83462053

TICKET NUMBER



**THE CAT SCALE GUARANTEE**

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

**CAT SCALE  
COLLECTOR  
CARD  
INSIDE!**

**WEIGH WHAT WE SAY OR WE PAY**

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

**IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:**

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CATSCALE (1-877-228-7253).
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

**CERTIFIED  
AUTOMATED  
TRUCK  
SCALE**

CAT SCALE COMPANY  
P.O. BOX 830  
WALCOTT, IA 52773  
(563) 284-8263  
www.catscale.com

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 10-09-2009

STEER AXLE 11020 lb

DRIVE AXLE 36960 lb

TRAILER AXLE 33780 lb

GROSS WEIGHT 81760 lb

SCALE 168

LOCATION:

SMITHTON TRUCKSTOP  
I 70 EXIT 49  
SMITHTON PA

PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE  
(IF APPLICABLE)

FREIGHT ALL KINDS

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED:

US BULK

12642

12642A

COMPANY

TRAILER #

83462052

WEIGH NUMBER

2052

FEE 1.00

WEIGHMASTER OR  
WEIGHER SIGNATURE

*Rebecca A. Bach*  
REBECCA A BACH

FULL WEIGHT  
TICKET #  
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: \_\_\_\_\_

CUSTOMER COPY



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003357</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342909 JJK</b>	
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>			Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>			
Generator's Phone: <b>(540)981-4236</b>		<b>24042-0013</b>				
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>			U.S. EPA ID Number <b>PAD987347515</b>			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>			U.S. EPA ID Number <b>PAD004835146</b>			
Facility's Phone: <b>(724)722-9600</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9 NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>est. 23</b>	<b>Tons</b>	<b>0008</b>
14. Special Handling Instructions and Additional Information <b>GIS # 5578 ERG # 171</b>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name <b>K.G. HAUSCHILD</b>			Signature <i>K.G. Hauschild</i>		Month Day Year <b>10   8   09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <b>Tim Hamman</b>			Signature <i>Tim Hamman</i>		Month Day Year <b>10   8   09</b>	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: <b>Actual 45960. TP</b> U.S. EPA ID Number						
18b. Alternate Facility (or Generator)						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
<b>H 111</b>						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name <b>L.A.A.R. Protes</b>			Signature <i>[Signature]</i>		Month Day Year <b>10   08   09</b>	

# FLYING J TRAVEL PLAZA

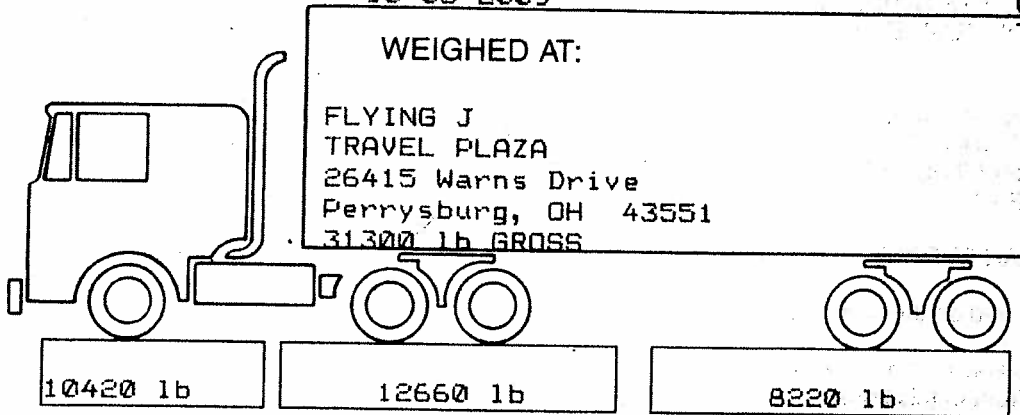
 **J-SCALE-GUARANTEED WEIGHT**

10-06-2009

Weigh Fee \$9.00

TICKET NUMBER: 066R3781

**WEIGHED AT:**  
FLYING J  
TRAVEL PLAZA  
26415 Warns Drive  
Perrysburg, OH 43551  
31300 lb GROSS

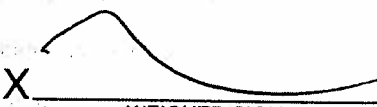


10420 lb      12660 lb      8220 lb



Our Seal Means  
"GUARANTEE"

CUSTOMER NAME: US BULK  
TRUCK NUMBER: 1274  
TRAILER NUMBER: 1274A

\$9.00 X   
COMMODITY      WEIGHER SIGNATURE

# FLYING J TRAVEL PLAZA

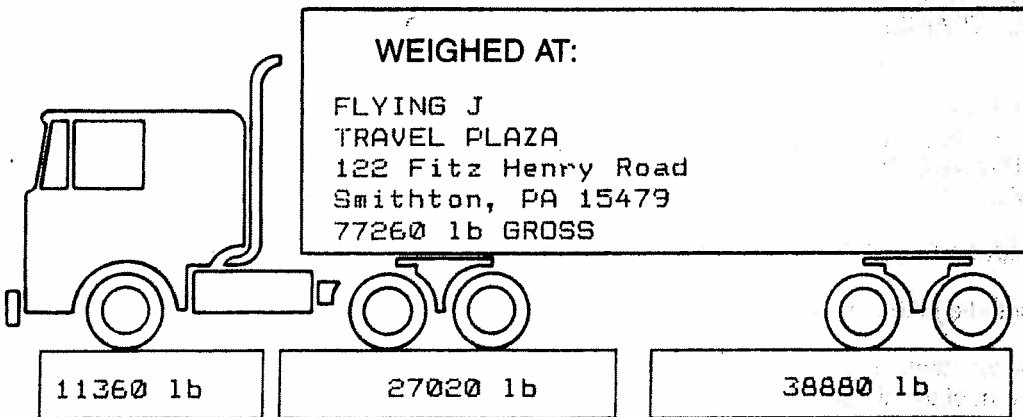
 **J-SCALE-GUARANTEED WEIGHT**

10-08-2009

Weigh Fee \$9.00

TICKET NUMBER: 211D1767

**WEIGHED AT:**  
FLYING J  
TRAVEL PLAZA  
122 Fitz Henry Road  
Smithton, PA 15479  
77260 lb GROSS

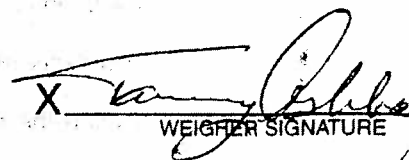


11360 lb      27020 lb      38880 lb



Our Seal Means  
"GUARANTEE"

CUSTOMER NAME: US BULK  
TRUCK NUMBER: 1274  
TRAILER NUMBER: 1274A

COMMODITY      X   
WEIGHER SIGNATURE

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342908 JJK</b>
---	---	--------------	--	---

5. Generator's Name and Mailing Address: <b>Norfolk Southern Railway Company</b> <b>110 Franklin Road, SE, Box 13, Roanoke, VA</b>		Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site</b> <b>Princeton, WV 24740</b>	
Generator's Phone: <b>(540)981-4236</b> <b>24042-0013</b>			

6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>	U.S. EPA ID Number <b>PAD987347515</b>
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address: <b>MAX Environmental Technologies, Inc.</b> <b>233 MAX Lane</b> <b>Yukon, PA 15698</b>	U.S. EPA ID Number <b>PAD004835146</b>
Facility's Phone: <b>(724)722-3500</b>	

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
<b>X</b>	<b>RD. Hazardous Waste, Solid, n.o.s., 9.</b> <b>PA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>est</b> <b>22</b>	<b>tons</b>	<b>D008</b>		

14. Special Handling Instructions and Additional Information  
**GIS # 5578**  
**ERG # 171**

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: **K.G. HAUSCHILDT**      Signature: *K.G. Hauschildt*      Month: **10** Day: **7** Year: **09**

16. International Shipments  Import to U.S.       Export from U.S.      Port of entry/exit: \_\_\_\_\_  
Transporter signature (for exports only): \_\_\_\_\_      Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name <b>BRADLEY P. SHAW</b>	Signature <i>Bradley P. Shaw</i>	Month: <b>10</b> Day: <b>07</b> Year: <b>09</b>
Transporter 2 Printed/Typed Name	Signature	Month:    Day:    Year:

18. Discrepancy

18a. Discrepancy Indication Space  Quantity       Type       Residue       Partial Rejection       Full Rejection  
**Item 11 is not within 10% of actual weight**

Manifest Reference Number: **Actual Weight 34540 P**  
U.S. EPA ID Number

18b. Alternate Facility (or Generator)      Facility's Phone: \_\_\_\_\_

18c. Signature of Alternate Facility (or Generator)      Month:    Day:    Year:   

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. <b>H 111</b>	2.	3.	4.
-----------------	----	----	----

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

Printed/Typed Name: **CARR, Peter**      Signature: *Peter Carr*      Month: **10** Day: **07** Year: **09**

# FLYING J TRAVEL PLAZA



## J-SCALE-GUARANTEED WEIGHT

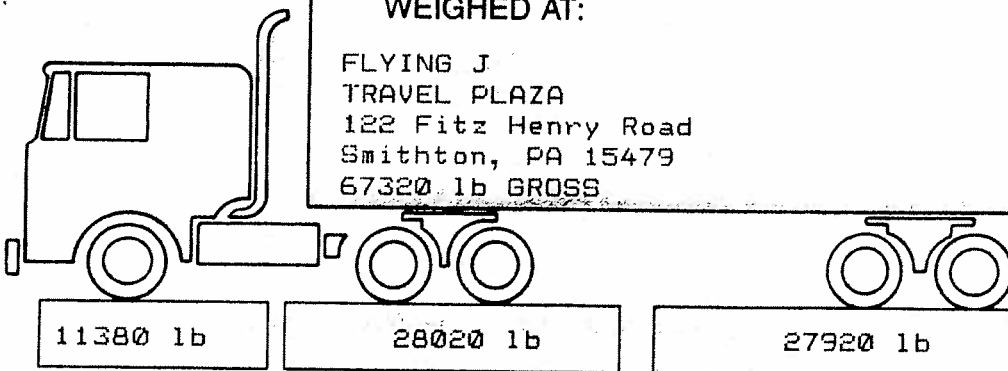
10-07-2009

Weigh Fee \$9.00

TICKET NUMBER: 211D0337

### WEIGHED AT:

FLYING J  
TRAVEL PLAZA  
122 Fitz Henry Road  
Smithton, PA 15479  
67320 1b GROSS



**GUARANTEED**



**J-SCALE**

Our Seal Means It  
"GUARANTEED"

CUSTOMER NAME: USBULK  
TRUCK NUMBER: 1281  
TRAILER NUMBER: 1281A

\_\_\_\_\_  
COMMODITY

x *Reed Jones*  
WEIGHER SIGNATURE

# FLYING J TRAVEL PLAZA

## J-SCALE-GUARANTEED WEIGHT

10-06-2009

Weigh Fee \$9.00

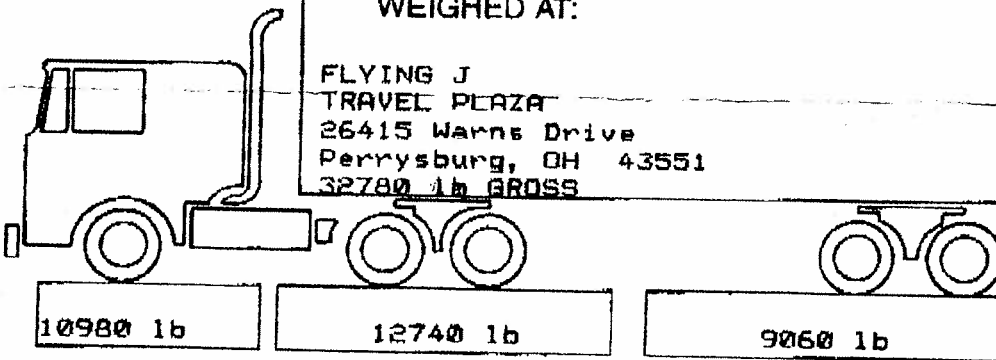
TICKET NUMBER: 066R3870

WEIGHED AT:

FLYING J  
TRAVEL PLAZA  
26415 Warns Drive  
Perrysburg, OH 43551  
32780 lb GROSS



Our Seal Means  
"GUARANTEE"



10980 lb

12740 lb

9060 lb

CUSTOMER NAME: US BULK  
TRUCK NUMBER: 1281  
TRAILER NUMBER: 1281A

\$900

COMMODITY

*x. Offuttman*

WEIGHER SIGNATURE



# FLYING J TRAVEL PLAZA

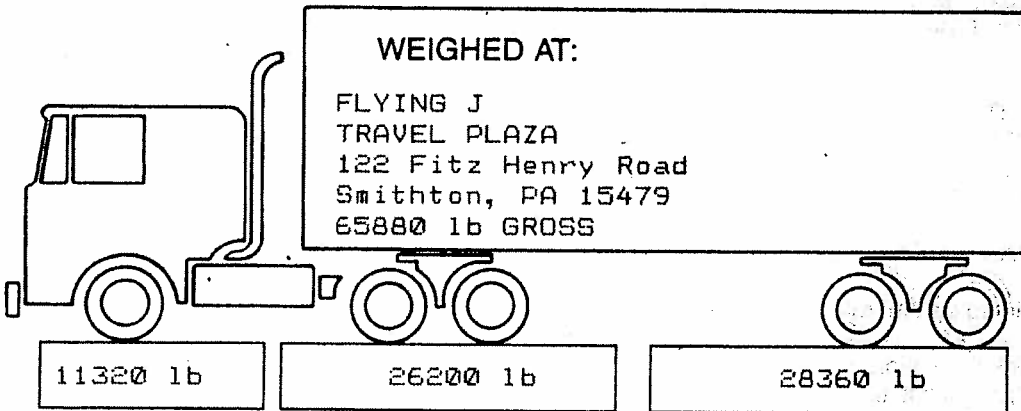


## J-SCALE-GUARANTEED WEIGHT

10-07-2009

Weigh Fee \$9.00

TICKET NUMBER: 211D0439



Our Seal Means  
"GUARANTEED"

CUSTOMER NAME: USBULK  
TRUCK NUMBER: 1274  
TRAILER NUMBER: 1274A

COMMODITY

X WEIGHER SIGNATURE

# FLYING J TRAVEL PLAZA

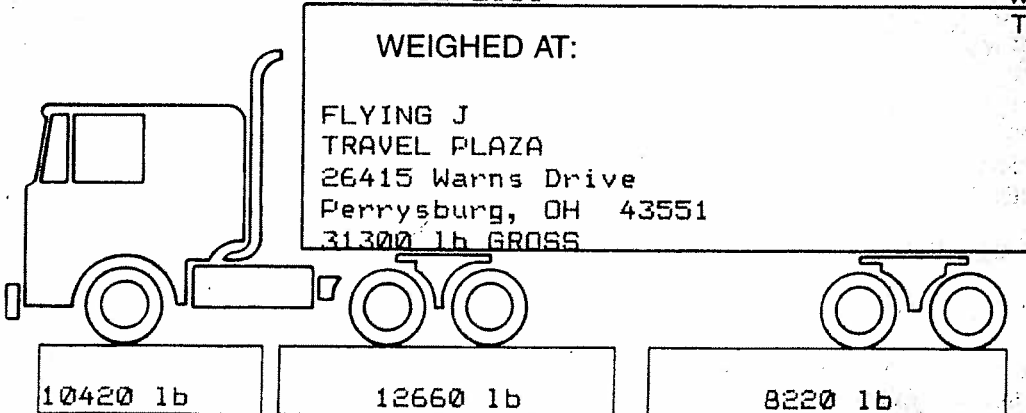


## J-SCALE-GUARANTEED WEIGHT

10-06-2009

Weigh Fee \$9.00

TICKET NUMBER: 066R3781



Our Seal Means  
"GUARANTEED"

CUSTOMER NAME: US BULK  
TRUCK NUMBER: 1274  
TRAILER NUMBER: 1274A

COMMODITY

\$9.00 X WEIGHER SIGNATURE

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of 1	3. Emergency Response Phone <b>800-424-8882</b>	4. Manifest Tracking Number <b>005342906 JJK</b>
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5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA Generator's Phone: (540)981-4236 24042-0013</b>	Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>
---	---

6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>	U.S. EPA ID Number <b>PAD987347515</b>
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address <b>PA Environmental Technologies, Inc. 233 MAY Lane Pukon, PA 15898 Facility's Phone: (724)722-3500</b>	U.S. EPA ID Number <b>PAD004835146</b>
---	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>est. 22</b>	<b>tons</b>	<b>DC08</b>			

14. Special Handling Instructions and Additional Information  
**ERG # 171**

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: **K.G. HAUSCHILD** Signature: *K.G. Hauschild* Month: **10** Day: **7** Year: **09**

16. International Shipments  Import to U.S.  Export from U.S. Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **JOE ZALLO** Signature: *Joe Zallo* Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_

Transporter 2 Printed/Typed Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_

18. Discrepancy

18a. Discrepancy Indication Space  Quantity  Type  Residue  Partial Rejection  Full Rejection

Manifest Reference Number: **Actual weight 49040 P** U.S. EPA ID Number: \_\_\_\_\_

18b. Alternate Facility (or Generator) \_\_\_\_\_

Facility's Phone: \_\_\_\_\_

18c. Signature of Alternate Facility (or Generator) \_\_\_\_\_ Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. <b>H III</b>	2.	3.	4.
-----------------	----	----	----

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

Printed/Typed Name: **KARR** Signature: *KARR* Month: **10** Day: **07** Year: **09**

GENERATOR  
TRANSPORTER INTL  
DESIGNATED FACILITY

83461989  
TICKET NUMBER



**CERTIFIED  
AUTOMATED  
TRUCK  
SCALE**

CAT SCALE COMPANY  
P.O. BOX 830  
WALCOTT, IA 52773  
(563) 284-8263  
www.catscale.com

**THE CAT SCALE COMPANY**  
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

**WEIGH WHAT WE SAY OR WE PAY**

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong OR
- (2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

**IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:**

- 1) Post bond and request a court date.
- 2) Call CAT Scale's Company direct 24 hours today at 1-877-CAT-SCALE (317-8352).
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. Accuracy is as guaranteed by CAT Scale.

DATE: 10-07-2009

STEER AXLE	11460	1b
DRIVE AXLE	32780	1b
TRAILER AXLE	36480	1b
GROSS WEIGHT	80720	1b

1135  
83461989 SCALE

LOCATION:  
SMITHTON TRUCKSTOP  
I 70 EXIT 49  
SMITHTON PA

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE  
(IF APPLICABLE)

FREIGHT ALL KINDS

LIVESTOCK PRODUCE PROPERTY COMMODITY OR ARTICLES WEIGHED  
US BULK 1277 1204A

WEIGH NUMBER  
1989

WEIGHMASTER OR  
WEIGHER: ELLEN ROBINSON  
FEE: \$9.00

TRUCKER #  
43517

TRAILER #  
FULL WEIGH  
TICKET # 1  
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE

© 1998 CAT Scale Corp

CUSTOMER COPY

# FLYING J TRAVEL PLAZA



## J-SCALE-GUARANTEED WEIGHT

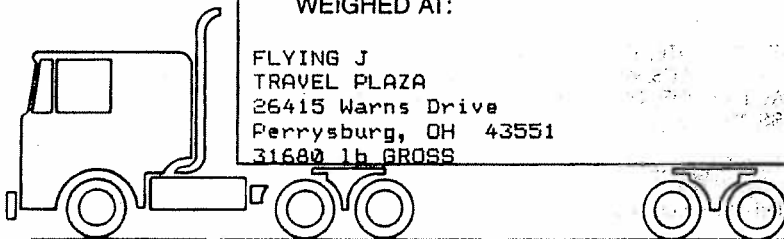
10-06-2009

Weigh Fee \$9.00

TICKET NUMBER: 066R3696

WEIGHED AT:

FLYING J  
TRAVEL PLAZA  
26415 Warns Drive  
Perrysburg, OH 43551  
31680 lb GROSS



10920 1b

12840 1b

7920 1b



Our Seal Means  
"GUARANTY"

CUSTOMER NAME: US BULK  
TRUCK NUMBER: 1277  
TRAILER NUMBER: 1204A

\$9.00 x

COMMODITY

WEIGHER SIGNATURE

ST01 (7/98)

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342905 JJK</b>			
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>			Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>					
Generator's Phone: <b>(540)981-4236 24042-0013</b>			U.S. EPA ID Number <b>PAD987347515</b>					
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>			U.S. EPA ID Number					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>			U.S. EPA ID Number <b>PAD004835146</b>					
Facility's Phone: <b>(724)722-3500</b>								
<b>GENERATOR</b>	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>	<b>est. 23</b>	<b>Tons</b>	<b>D008</b>	
14. Special Handling Instructions and Additional Information <b>GIS # 5578 ERG # 171</b>								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name <b>K.G. Hauschildt</b>		Signature <i>K.G. Hauschildt</i>		Month <b>10</b>		Day <b>6</b>		
				Year <b>09</b>				
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
<b>TRANSPORTER</b>	17. Transporter Acknowledgment of Receipt of Materials		Transporter 1 Printed/Typed Name <b>Richard Miller</b>		Signature <i>Richard Miller</i>		Month <b>10</b>	
							Day <b>6</b>	
						Year <b>09</b>		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection <b>Item 11 is not within 10% OR Actual weight</b> Manifest Reference Number: <b>WB-10 37280 P</b>								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. <b>H III</b>		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name <b>LANN</b>		Signature <i>Protel</i>		Month <b>10</b>		Day <b>06</b>		
				Year <b>09</b>				

83461971

TICKET NUMBER



**CERTIFIED  
AUTOMATED  
TRUCK  
SCALE**

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT IA 52773  
(563) 284-6263  
www.catscale.com

2034

83461971

SCALE

LOCATION:

PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE

IMPRINT SEAL HERE  
(IF APPLICABLE)

WEIGH NUMBER

1971

CUSTOMER COPY

**THE CAT SCALE GUARANTEE**

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

**WEIGH WHAT WE SAY OR WE PAY**

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweighting if our scale is wrong; OR
- (2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

**IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:**

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free)
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:	10-06-2009	STEER AXLE	11480	LB
		DRIVE AXLE	30700	LB
	168	TRAILER AXLE	28880	LB
	SMITHTON TRUCKSTOP	GROSS WEIGHT	71060	LB
	I 70 EXIT 49			
	SMITHTON PA			

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

FREIGHT ALL KINDS

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED  
US BULK

12642 12642A

COMPANY

TRACTOR #

TRAILER #

FEES 9.00

WEIGHMASTER OR  
WEIGHER SIGNATURE  
EILEEN RUBINO

FULL WEIGH  
TICKET  
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE.

**CAT SCALE  
COLLECTOR  
CARD  
INSIDE!**



83461978  
TICKET NUMBER

**CERTIFIED  
AUTOMATED  
TRUCK  
SCALE**

CAT SCALE COMPANY  
PO. BOX 680  
WALCOTT, IA 52773  
(563) 284-6263  
www.cat-scale.com

**THE CAT SCALE GUARANTEE**  
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.  
**WEIGH WHAT WE SAY OR WE PAY**  
If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:  
(1) Refund you for the cost of the overweight fine if our scale is wrong, OR  
(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

**IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:**

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- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free).
- 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company address, and phone number to CAT Scale Company Attn: Guarantee Department.

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 10-06-2009

2141

03461978 SCALE 11040 LB

168 DRIVE AXLE 15240 LB

SMITHTON TRUCKSTOP TRAILER AXLE 7500 LB

I 70 EXIT 49

SMITHTON PA \*GROSS WEIGHT 33780 LB

PUBLIC WEIGHTMASTERS LOCATION:

CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE  
(IF APPLICABLE)

WEIGH NUMBER  
1971

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED  
US BULK

FREIGHT ALL KINDS

COMPANY: \_\_\_\_\_ TRACTOR # \_\_\_\_\_ TRAILER # \_\_\_\_\_  
12642 12642A

WEIGHMASTER OR WEIGHER SIGNATURE: *William Rubino* FULL WEIGH TICKET # 83461971  
69517 (IF REWEIGH)

FEE 1.00

CUSTOMER COPY

CAT SCALE  
COLLECTOR  
CARD  
INSIDE!

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WV P 000003957	2. Page 1 of 1	3. Emergency Response Phone 800-424-8812	4. Manifest Tracking Number 005342904 JJK		
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company</b> 110 Franklin Road, SE, Box 13, Roanoke, VA				Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site</b> Princeton, WV 24740			
Generator's Phone: (540)981-4236		24042-0013					
6. Transporter 1 Company Name U.S. Bulk Transport, Inc.				U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698				U.S. EPA ID Number PAD004835146			
Facility's Phone: (724)722-3500							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)	001	DT	est 23	Tons	D008	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information GIS # 5578 ERG # 171							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name K.G. HAUSCHILDT				Signature K.G. Hauschildt		Month Day Year 10   6   09	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Bill Lutz				Signature Bill Lutz		Month Day Year 10   6   09	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Item 11 is not within 10% of actual weight Actual Weight 55460 P							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H 111		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name LARRY PROTCH				Signature		Month Day Year 10   06   09	

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

83461974

TICKET NUMBER



CERTIFIED

AUTOMATED

TRUCK

SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALDOTT, IA 52773  
(563) 284-8263  
www.cat-scale.com

2050 SCALE  
63461974 LOCATION:  
PUBLIC WEIGHMASTERS  
CERTIFICATE OF  
WEIGHT & MEASURE

- IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
- 1) Post bond and request a court date.
  - 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free).
  - 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:	10-06-2009	STEER AXLE	7280 LB
		DRIVE AXLE	9800 LB
	168	TRAILER AXLE	4720 LB
	SMITHTON TRUCKSTOP	* GROSS WEIGHT	21800 LB
	I 70 EXIT 49		
	SMITHTON PA		

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

FREIGHT ALL KINDS

UNESTOCK PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED  
US BULK

1247

1247A

IMPRINT SEAL HERE  
(IF APPLICABLE)

WEIGH NUMBER  
1967

COMPANY \_\_\_\_\_ TRACTOR # \_\_\_\_\_ TRAILER # \_\_\_\_\_  
 WEIGHMASTER OR \_\_\_\_\_ FULL WEIGH \_\_\_\_\_  
 WEIGHER SIGNATURE \_\_\_\_\_ (IF REASON)

FEE 1.00

DRIVER IN TRUCK UNLESS CHECKED HERE: \_\_\_\_\_

CUSTOMER COPY

CAT SCALE  
COLLECTOR  
CARD  
INSIDE!

0007/04771 00 0007/00/00/00 0345749

83461967

TICKET NUMBER



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
PO. BOX 630  
WALCOTT, IA 52773  
(563) 284-8263  
www.catscale.com

**THE CAT SCALE GUARANTEE**  
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

### WEIGH WHAT WE SAY OR WE PAY

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

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- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE ( toll free )
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:	10-06-2009	STEER AXLE	12020	lb
1938	SCALE	DRIVE AXLE	31580	lb
83461967	LOCATION:	TRAILER AXLE	33660	lb
	PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE	GROSS WEIGHT	77260	lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and where properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

### FREIGHT ALL KINDS

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

US BULK

1247

1247A

COMPANY

TRACTOR #

TRAILER #

FEE

9.00

WEIGHMASTER OR  
WEIGHER SIGNATURE

CELLEN RUBINO

55517

FULL WEIGHT  
TICKET #  
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE

**CAT SCALE  
COLLECTOR  
CARD  
INSIDE!**

IMPRINT SEAL HERE  
(IF APPLICABLE)

WEIGH NUMBER

1967

CUSTOMER COPY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342903 JJK</b>
---	---	--------------------------	--	---

5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>	Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>
Generator's Phone: <b>(540)981-4236 24042-0013</b>	

6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>	U.S. EPA ID Number <b>PAD987347515</b>
---	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15699</b>	U.S. EPA ID Number <b>PAD004835146</b>
Facility's Phone: <b>(724)722-3500</b>	

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	001	DT	EST. 23	Tons	D008		

14. Special Handling Instructions and Additional Information <b>GIS # 5578 ERG # 171</b>
---

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offor's Printed/Typed Name <b>K.G. HAUSCHLODT</b>	Signature <i>K.G. Hauschlot</i>	Month <b>10</b>	Day <b>6</b>	Year <b>09</b>
--	------------------------------------	--------------------	-----------------	-------------------

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: _____ Date leaving U.S.: _____
--	---

17. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name <b>Donald Beach</b>	Signature <i>Donald Beach</i>	Month <b>10</b>	Day <b>6</b>	Year <b>09</b>
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy				
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number: <b>Actual Weight 47160 P</b>				
18b. Alternate Facility (or Generator) U.S. EPA ID Number				

18c. Signature of Alternate Facility (or Generator)				
Facility's Phone: _____				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)				
1. <b>H111</b>	2.	3.	4.	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a				
Printed/Typed Name <b>LARRY PROTECH</b>	Signature <i>[Signature]</i>	Month <b>10</b>	Day <b>06</b>	Year <b>09</b>

83461966

TICKET NUMBER



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(563) 284-6263  
www.catscale.com

1934

83461966

SCALE

LOCATION:

PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE

DATE: 10-06-2009

168

SMITHTON TRUCKSTOP

I 70 EXIT 49

SMITHTON PA

STEER AXLE

11720 LB

DRIVE AXLE

33500 LB

TRAILER AXLE

33620 LB

GROSS WEIGHT

78840 LB

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

CAT SCALE  
COLLECTOR  
CARD  
INSIDE!

### THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

### WEIGH WHAT WE SAY OR WE PAY

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- (2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

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- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CATSCALE (Toll Free).
- 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

IMPRINT SEAL HERE  
(IF APPLICABLE)

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

FREIGHT ALL KINDS

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED  
US BULK

1270

1270A

COMPANY

TRACTOR #

TRAILER #

FEE 9.00

WEIGHMASTER OR  
WEIGHT SIGNER

STUBEN RUBINO

FULL WEIGHT  
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE:

© 1998 CAT Scale Company # 0270

CUSTOMER COPY

WEIGH NUMBER

1966

83461975

TICKET NUMBER



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(563) 294-8283  
WWW.CATSCALE.COM

2051 SCALE  
63461975  
PUBLIC WEIGHMASTERS  
CERTIFICATE OF  
WEIGHT & MEASURE

DATE: 10-06-2009

- IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
- 1) Post bond and request a court date.
  - 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free).
  - 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

166	STEER AXLE	11420 LB
SMITHTON TRUCKSTOP	DRIVE AXLE	12180 LB
I 70 EXIT 49	TRAILER AXLE	8080 LB
SMITHTON PA	*GROSS WEIGHT	31680 LB

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE  
(IF APPLICABLE)

WEIGH NUMBER  
1966

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED  
US BULK

FREIGHT ALL KINDS

WEIGHMASTER OR  
WEIGHER SIGNATURE  
*Steven Robbins*

TRUCK # 1270 TRAILER # 1270A

FEE 1.00

WEIGHT TICKET # 83461966

DRIVER IN TRUCK UNLESS CHECKED HERE: \_\_\_\_\_

CAT SCALE  
COLLECTOR  
CARD  
INSIDE!

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST** 1. Generator ID Number **VVVP 000003957** 2. Page 1 of 1 3. Emergency Response Phone **800-424-8802** 4. Manifest Tracking Number **005342902 JJK**

5. Generator's Name and Mailing Address  
**Norfolk Southern Railway Company**  
**110 Franklin Road, SE, Box 13, Roanoke, VA**  
Generator's Phone: **(540)981-1236 24042-0043**  
Generator's Site Address (if different than mailing address)  
**Old Athens Turnpike Site**  
**Princeton, WV 24740**

6. Transporter 1 Company Name  
**U.S. Bulk Transport, Inc.** U.S. EPA ID Number  
**PAD987347515**

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

8. Designated Facility Name and Site Address  
**MAX Environmental Technologies, Inc.** U.S. EPA ID Number  
**233 MAX Lane**  
**Yukon, PA 15698** U.S. EPA ID Number

Facility's Phone: **(724)722-3500** U.S. EPA ID Number  
**PAD004835146**

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. <b>RG Hazardous Waste Solid, n.o.s., 9, MA 3077, PGIII (lead)</b>							
	2.	001	DT	22	TRMS	D008		
	3.							
	4.							

14. Special Handling Instructions and Additional Information  
**GHS # 5076**  
**ERG # 171**

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 282.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.  
Generator's/Offeror's Printed/Typed Name  
**K.G. HAUSCHILDZ** Signature  
**K.G. Hauschildz** Month Day Year  
**10 2 09**

16. International Shipments  Import to U.S.  Export from U.S. Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_  
Transporter signature (for exports only): \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials  
Transporter 1 Printed/Typed Name  
**Ronald Patton** Signature  
**Ronald Patton** Month Day Year  
**10 2 09**  
Transporter 2 Printed/Typed Name \_\_\_\_\_ Signature \_\_\_\_\_ Month Day Year \_\_\_\_\_

18. Discrepancy  
18a. Discrepancy Indication Space  Quantity  Type  Residue  Partial Rejection  Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number: **Actual WETA 45440 P** U.S. EPA ID Number \_\_\_\_\_  
Facility's Phone: \_\_\_\_\_

18c. Signature of Alternate Facility (or Generator) \_\_\_\_\_

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) Month Day Year  
1. **H 111** 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a  
Printed/Typed Name  
**Lana Proch** Signature  
**Lana Proch** Month Day Year  
**10 02 09**

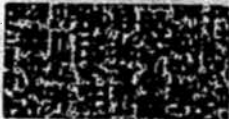
83461898

TICKET NUMBER



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 830  
WALCOTT, IA 52773  
(563) 284-6263  
www.catscale.com



PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE

DATE: 10-02-2009

SCALE: 168

LOCATION: SMITHTON TRUCKSTOP

I 70 EXIT 49

SMITHTON PA

STEER AXLE 10940 lb

DRIVE AXLE 31660 lb

TRAILER AXLE 36920 lb

GROSS WEIGHT 79420 lb

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full-length platform scale. All weights are guaranteed by CAT Scale.

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE  
(IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

US BULK

FREIGHT ALL KINDS

COMPANY

WEIGH NUMBER

9098

FEE 9.00

WEIGHMASTER OR  
WEIGHER SIGNATURE

EILEEN RUBINO

TRACTOR #

TRAILER #

FULL WEIGHT  
(TICKET NO.)  
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE

© 1998 CAT Scale Company \* 02

CUSTOMER COPY

### THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

### WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

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- (2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

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- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE.
- 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

CAT SCALE  
COLLECTOR  
CARD  
INSIDE!

83461903

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 690 WALCOTT, IA 52775 (563) 284-6263 www.catallscale.com

DATE:

10-02-2009

1902

SCALE

166

LOCATION:

SMITHTON TRUCKSTOP I 70 EXIT 49 SMITHTON PA

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER

9098

CUSTOMER COPY

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

THE CAT SCALE GUARANTEE

WEIGH WHAT WE SAY OR WE PAY! If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will: (1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR (2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

Table with 4 columns: Component, Weight, Gross Weight, and Unit. Rows include STEERAXLE (11020 lb), DRIVEAXLE (14260 lb), TRAILERAXLE (6700 lb), and GROSS WEIGHT (33980 lb).

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

Form fields for LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED (FREIGHT ALL KINDS), COMPANY (UIS BULK), FEE (1.00), WEIGHTMASTER OR WEIGHER SIGNATURE (KEVIN RODGERS), FULL WEIGHT TICKET # (8087 9098), and TRAILER # (404A).

CAT SCALE COLLECTOR CARD INSIDE!

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8902</b>	4. Manifest Tracking Number <b>005342901 JJK</b>		
5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company 110 Franklin Road, SE, Box 13, Roanoke, VA</b>			Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site Princeton, WV 24740</b>				
Generator's Phone: <b>(540)981-4236</b>		<b>24042-0013</b>					
6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>				U.S. EPA ID Number <b>PAD987347515</b>			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>MAX Environmental Technologies, Inc. 233 MAX Lane Yukon, PA 15698</b>				U.S. EPA ID Number <b>PAD004835146</b>			
Facility's Phone: <b>(724)722-3500</b>							
<b>GENERATOR</b>	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	<b>X</b>	<b>RQ, Hazardous Waste, Solid, n.o.s., 9, NA 3077, PGIII (lead)</b>	<b>001</b>	<b>DT</b>		<b>tons</b>	<b>D002</b>
14. Special Handling Instructions and Additional Information <b>ERG # 171</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name <b>K.G. HAUSCHILD</b>				Signature <i>K.G. Hauschild</i>		Month Day Year <b>10 2 09</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>Tom Hallon</b>				Signature <i>Tom Hallon</i>		Month Day Year <b>10 2 09</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)				Manifest Reference Number: <b>Actual weight 494907</b> U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>H III</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <b>L.A.M. Proctor</b>				Signature <i>L.A.M. Proctor</i>		Month Day Year <b>10 02 09</b>	

83461902

TICKET NUMBER



**CERTIFIED  
AUTOMATED  
TRUCK  
SCALE**

CAT SCALE COMPANY  
P.O. BOX 830  
WALCOTT, IA 52773  
(563) 284-6283  
www.cat-scale.com

**THE CAT SCALE GUARANTEE**  
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**WEIGH WHAT WE SAY OR WE PAY\***

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DATE: 10-02-2009

STEERAXLE	10500	LB
DRIVE AXLE	13260	LB
TRAILERAXLE	7500	LB
*GROSS WEIGHT	31260	LB

1851  
60679102 SCALE  
LOCATION:  
PUBLIC WEIGHMASTERS  
CERTIFICATE OF  
WEIGHT & MEASURE

166  
SMITHTON TRUCKSTOP  
I 70 EXIT 49  
SMITHTON PA

IMPRINT SEAL HERE  
(IF APPLICABLE)

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FREIGHT ALL KINDS

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

US BULK

COMPANY

TRACTOR # 1299-4A

WEIGHT NUMBER  
9102

FEE 9.00

WEIGHMASTER OR  
WEIGHER SIGNATURE  
KEVIN RUDENBERG

TRAILER # 1299-4A  
BILL WEIGH  
TICKET # 86335  
(IF REWEIGH)

CUSTOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE: \_\_\_\_\_

CAT SCALE  
COLLECTOR  
CARD  
INSIDE!

3 mi. Cat #  
005342901

85401090

TICKET NUMBER



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(563) 284-6263  
www.catscale.com

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

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- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free)
- 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

**COLLECTOR  
CARD  
INSIDE!**

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:	10-02-2009	STEER AXLE	11240	lb
		DRIVE AXLE	33960	lb
		TRAILER AXLE	35540	lb
		GROSS WEIGHT	80740	lb

1453  
80879096 SCALE 168

LOCATION: SMITHTON TRUCKSTOP  
I 70 EXIT 49  
SMITHTON PA

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE  
(IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

US BULK

12994A

COMPANY

TRAILER

WEIGH NUMBER

9096

FEE 9.00

WEIGHMASTER OR  
WEIGHER SIGNATURE

KEVIN RUDGERS

55335

FULL WEIGH  
TICKET #  
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: \_\_\_\_\_

© 1998 CAT Scale Company

CUSTOMER COPY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number <b>WVP000003957</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>800-424-8802</b>	4. Manifest Tracking Number <b>005342900 JJK</b>
---	---	--------------------------	--	---

5. Generator's Name and Mailing Address <b>Norfolk Southern Railway Company</b> <b>110 Franklin Road, SE, Box 13, Roanoke, VA</b>	Generator's Site Address (if different than mailing address) <b>Old Athens Turnpike Site</b> <b>Princeton, WV 24740</b>
Generator's Phone: <b>(540)981-4236</b> <b>24042-0013</b>	

6. Transporter 1 Company Name <b>U.S. Bulk Transport, Inc.</b>	U.S. EPA ID Number <b>PAD987347515</b>
---	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address <b>WAX Environmental Technologies, Inc.</b> <b>233 MAX Lane</b> <b>Yukon, PA 15898</b>	U.S. EPA ID Number <b>PAD004835146</b>
Facility's Phone: <b>(724)722-3500</b>	

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes		
		No.	Type					
X	1. <b>RQ, Hazardous Waste, Solid, n.o.s. 9, NA 3077, PGIII (lead)</b>	001	DT	22	Tons	0008		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information  
**GIS # 5578**  
**ERG # 171**

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offoror's Printed/Typed Name <b>George Robinson agent for NSRC</b>	Signature <i>[Signature]</i>	Month <b>10</b>	Day <b>1</b>	Year <b>09</b>
---	---------------------------------	--------------------	-----------------	-------------------

16. International Shipments  Import to U.S.  Export from U.S. Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name <b>US Bulk</b>	Signature <i>[Signature]</i>	Month <b>10</b>	Day <b>1</b>	Year <b>09</b>
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy

18a. Discrepancy Indication Space  Quantity  Type  Residue  Partial Rejection  Full Rejection

**Item 11. is estimated**  
**Item 17. driver should have printed name**  
**instead of writing co. name.**

18b. Alternate Facility (or Generator) \_\_\_\_\_ Manifest Reference Number: **Actual Weight 43380 P** U.S. EPA ID Number \_\_\_\_\_

18c. Signature of Alternate Facility (or Generator) \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. <b>H111</b>	2.	3.	4.
----------------	----	----	----

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a. Printed/Typed Name <b>Heather Heatley</b>	Signature <i>[Signature]</i>	Month <b>10</b>	Day <b>02</b>	Year <b>09</b>
---	---------------------------------	--------------------	------------------	-------------------



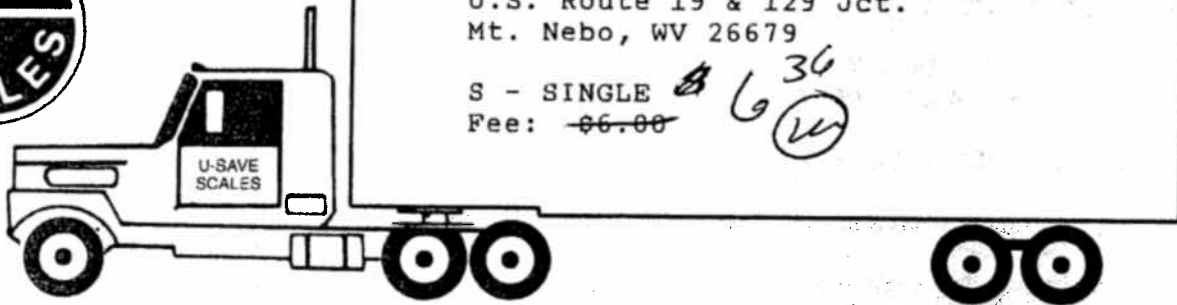
No. 072729

CERTIFIED - GUARANTEED

10/01/09 12:44:14  
Ticket #: 70407

# U-SAVE AUTOMATED SCALE SYSTEMS

U.S. ROUTE 19 & JUNCTION OF ROUTE 129 • MT. NEBO, WV 26679



12880 lb

30020 lb

33360 lb

OFFICIAL  
CERTIFIED  
PUBLIC SCALE  
  
GUARANTEED  
WEIGHT

=====  
Total Wt 76260 lb

THE GROSS WEIGHT IS THE CERTIFIED WEIGHT  
FIRST WEIGH TICKET # IF REWEIGH \_\_\_\_\_

TRACTOR NO. 1299-6

TRAILER NO. 1299-6A

WEIGHMASTER White WEIGHMASTER CERTIFICATE NO. \_\_\_\_\_ COMPANY US BULK

CHECK HERE-IF DRIVER NOT IN TRUCK DURING WEIGHING

GUARANTEE DETAILS ON REVERSE SIDE