FINAL REPORT
for
STAGE ONE PROPERTIES

NORTHWEST TRIANGLE INITIATIVE
City of York
York County, Pennsylvania

January 2010

Prepared for:

The City of York Redevelopment Authority
49 East Market Street
York, PA

Prepared by:

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(ARM Project 07214)

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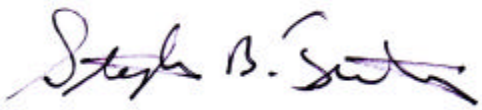
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1.0 INTRODUCTION

1.1 Project Background

This Act 2 Final Report has been prepared by ARM Group Inc. (ARM) to summarize the environmental site characterization activities conducted to date for the Stage One Properties located within the Northwest Triangle (NWT) region of the City of York, York County, Pennsylvania. This report has been prepared at the request of the City of York Redevelopment Authority (RDA), a non-profit organization that has purchased properties and is leading the initiative to remediate and redevelop properties within an approximately 14.5-acre portion of the City of York referred to as the Northwest Triangle (NWT). As shown on the attached Figure 1, the NWT is generally bounded to the north by the Codorus Creek, to the east by North Beaver Street, and to the south by West Gay Avenue. The properties are located at latitude 39° 57' 54" North and longitude 76° 43' 53" West. The goal of the NWT Initiative is to revitalize and enhance this portion of the City of York through the demolition and/or remodeling of contaminated, abandoned and/or under-utilized properties, and the establishment of new residential and commercial facilities.

Many of the properties within the NWT have been the subject of preliminary environmental site investigations, and ARM was contracted by the RDA to perform additional site sampling and characterization of these properties to further support the identification and delineation of potential contamination, and to support the development and implementation of environmental remediation plans as part of the site redevelopment activities. ARM's work was conducted in accordance with the June 2007 Supplemental Phase II Environmental Site Assessment (ESA) Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP), and the December 2007 Supplemental Phase II ESA for Stage One Properties, which were reviewed and approved by the Pennsylvania Department of Environmental Protection (PADEP). Supplemental investigation and remediation activities were completed in accordance with the applicable provisions of 25 PA Code Chapter 250 (the Act 2 Regulations).

Based on site access and redevelopment considerations, the site has been divided into separate areas for remediation purposes. This report presents the investigation and remediation results for soils at the Stage One properties. A separate report will be submitted to address the soils at the Stage Two property (i.e., the former Ohio Blenders property), and groundwater across the entire NWT site (Stage One and Stage Two).

The Stage One properties that are the subject of this report consist of the following:

1. York Rail; Pullman Apartments, LLP; and Thomas Somerville Co., North George Street, York, PA; 0.42 acres.

2. Keystone Color Works, 109-151 West Gay Street, York, PA; 0.73 acres.

3. Weaver's Auto Body, P&S Motors, and row houses, 200-236 North Beaver Street, York, PA; 1.18 acres.

4. B&C Fasteners, 146-150 North Beaver Street, York, PA; 0.47 acres.

5. Trestle Area – York Rail (Parcels 47-01 and 47-01A); 0.5 acres.

The Stage Two property currently includes the following:

1. Ohio Blenders (AlfaGreen Supreme), 260 North Beaver Street, and 132-152 North Pershing Avenue, York, PA; 2.04 acres.

1.2 Geologic Setting

The NWT site is underlain by the Conestoga Formation and the Pure Limestone Member of the Kinzers Formation. The Conestoga Formation consists of impure, gray limestone. Both units are susceptible to sinkholes and a highly irregular, pinnacled bedrock surface may occur below a deceptively smooth land surface.

The site is located within the Codorus Creek watershed, and the Creek is the receptor for local surface and groundwater. Groundwater and surface water at and in the vicinity of the site flows to the north and northwest. Groundwater is located 13 to 21 feet below the ground surface.

1.3 Previous Investigation Activities

Various phases of investigation have been conducted prior to ARM's most recent investigation activities, and these activities provided the basis for the work conducted by ARM. These previous investigation activities included the following:

- A preliminary Phase I Environmental Assessment Report that addressed all of the NWT properties of concern was completed by Edge Environmental, Inc. on June 1, 2004. This report identified historical site uses and potential environmental issues such as underground storage tanks (USTs), coal storage areas, lead-based paint, and waste oil. State and federal records were reviewed, a site reconnaissance was performed, and interviews were conducted with local officials, owners, and occupants regarding each site.

- A Revised Phase I Environmental Site Assessment of the properties of concern was completed by Pennoni Associates, Inc. on June 2, 2005. This report expanded on the Edge Environmental assessment report, and included Sanborn maps, historical aerial photographs, and an Environmental Data Resources (EDR) Report. Historical above-ground storage tanks (ASTs), two fire-proof doors, an average radon concentration determined from EPA publications, potential PCBs, PAHs, and metals associated with the railroad tracks were listed, and numerous mercury-containing thermostats were identified as conditions of potential environmental concern.

- An Interim Site Characterization Report including the Keystone Color Works and Ohio Blenders properties was completed by GTS Technologies, Inc. on December 21, 2005.

Six surface soil samples were collected along the western side of the Keystone Color Works building. Lead concentrations exceeding the PADEP Statewide Health Medium-Specific Concentration (MSC) for lead were identified in four of the samples. Three geophysical surveys, including metal detection, terrain conductivity, and ground-penetrating radar, were performed on the Ohio Blenders property, and six potential USTs were identified. Potential-PCB containing transformers were also found on the Ohio Blenders property. Thirty six (36) surface soils samples were collected on the Ohio Blenders property, and antimony, arsenic, total chromium, lead and 1,2-diphenlyhydrazine were detected in soils at concentrations that exceed the associated PADEP Statewide Health MSCs. An additional twelve (12) surface soils samples were collected from the area where utility poles had been stored. The concentrations of creosote-related compounds in these soil samples did not exceed any PADEP MSCs. Three (3) surface soil samples were collected from the area where transformers were located, and the concentrations of PCBs in these samples were below the applicable PADEP MSCs. Eight (8) geoprobe borings were also completed across the site near the suspected UST systems, and soil samples collected from these borings were analyzed for leaded gasoline parameters. One (1) sample indicated a concentration of lead in excess of the PADEP MSC, although all other results were below the applicable PADEP MSCs.

- A Site Characterization Report for Weaver's Auto Body was completed by Alliance Environmental Services, Inc. on June 14, 2006. A geophysical survey was completed at the property to identify the potential presence and location of any USTs, and one (1) abandoned-in-place UST was identified. A total of twenty four (24) soil borings were then completed on site and twelve (12) of the borings were sampled for volatile organic compounds (VOCs). Two samples were also submitted for semi-volatile organics (SVOC) analysis. While some VOCs were detected, the concentrations were below the respective PADEP MSCs.

2.0 SITE ASSESSMENT ACTIVITIES

2.1 Sampling Rationale and Methodology

Based on the results of the previous investigation activities, supplemental investigation activities were conducted by ARM to support the identification and delineation of contaminants of potential concern in soils at the site. In general, sampling locations and depths were biased towards locations of potential contamination identified from the previous investigation activities, and/or through supplemental field observations (e.g., staining, odors, proximity to potential discharge locations, and elevated VOC concentrations in air based on field-screening with a photo-ionization detector). In locations were contamination had already been identified at concentrations in excess of the PADEP Statewide Health MSCs (25 PA Code Chapter 250), additional sampling was conducted beyond these locations in an attempt to delineate the lateral and vertical extent of contamination.

All sampling and analysis was conducted in accordance with the PADEP-approved Supplemental Phase II ESA SAP and QAPP dated June 2007, the December 2007 Supplemental ESA, and all applicable PADEP regulations and guidance for the collection and analysis of environmental samples (e.g., the PADEP's Act 2 Technical Guidance Manual). Specific protocols included the decontamination of non-disposable sampling equipment prior to sample collection, and the proper preservation and chain-of-custody handling of all samples selected for laboratory analysis. All samples were analyzed by Analytical Laboratory Services, Inc. (ALSI) of Middletown, Pennsylvania.

2.2 Sampling Activities and Results

Initial sampling of the Stage One properties was conducted in June and July 2007, with supplemental delineation sampling activities conducted in November 2007 and September 2008. The sampling activities included a geophysical survey to support the identification of potential underground storage tanks (USTs), the use of hand-held sampling equipment (e.g., hand-bucket auger) to collect surface and shallow subsurface soil samples, and the use of Geoprobe direct-push equipment to facilitate the collection of deeper soil samples. In addition, two (2) heating oil USTs were removed from beneath the sidewalk in front of the B&C Fasteners property in October 2007.

The sampling activities and results are discussed in the following subsections. The sampling locations are shown on the figures that follow the text of this report, and the sampling results are summarized on the attached data summary tables. The laboratory data sheets from the analytical work are presented as Appendix B to this report.

2.2.1 York Rail, Pullman Apartments, LLP; and Thomas Somerville Co. Properties (Parcels 43-01, 43-02, 43-04, 43-05, and 127-01)

As generally depicted on the attached Figure 2, this area consists of one warehouse, one retail building, two paved parking lots, a gravel lot, and two sets of railroad tracks. One of the parking lots is on the eastern side of North George Street, with the rest of the property located on the

west side of North George Street. The western portion of the northern building was demolished in 2008.

A total of twenty two (22) surface and shallow subsurface soil samples were collected across these properties using a hand auger or Geoprobe direct-push equipment. Per the approved SAP, twelve (12) samples were initially collected and submitted for analysis of Target Compound List (TCL) VOCs, TCL SVOCs, and Resource, Conservation, and Recovery Act (RCRA) metals. Additionally, one (1) soil sample was analyzed for polychlorinated biphenyls (PCB) and another was analyzed for herbicides. Based on the results from these initial samples, ten (10) additional samples were collected and submitted for analysis of arsenic and chromium in an attempt to further delineate the horizontal and vertical extent of these constituents. The sample locations are shown on Figure 2, and the laboratory results are summarized on Table 1.

As shown on Table 1, the initial sampling and analysis activities indicated the presence of arsenic and chromium at concentrations in excess of the PADEP Residential and Non-Residential Direct Contact MSCs. No VOCs, SVOCs, herbicides or PCBs were detected at concentrations in excess of any PADEP MSCs, and no PADEP MSC exceedances were detected in the Thomas Somerville parking lot located to the east of North George Street.

Based on the PADEP MSC exceedances detected in the initial samples, ten (10) additional samples were collected from around and below the locations with the initial exceedances. Existing site features and conditions limited the additional delineation in some locations (e.g., railroad tracks). Because the initial exceedances were only for arsenic and chromium, these supplemental samples were only analyzed for arsenic and chromium. The sampling results are shown on Table 1, with the sample locations shown on Figure 2.

Based upon these results, the area was generally delineated. Contaminated soils were limited to the top two feet of soil in the area immediately south of the southern warehouse. The extent of contaminated soils is displayed on Figure 2.

2.2.2 Keystone Color Works (Parcel 46-09)

As generally depicted on the attached Figure 3, this parcel consists of the Keystone Color Works industrial building, with a small tract of gravel-covered soil along the western edge of the building. Railroad tracks mark the western property boundary.

Based on previous sampling conducted at this site, ARM collected ten (10) soil samples from the area along the western side of the Keystone Color Works building. These samples were collected from the surface or shallow subsurface using a decontaminated hand bucket-auger, and were submitted for analysis of lead. The sample locations and depths were selected to supplement the previous characterization and to support delineation of the elevated lead concentrations previously detected. As summarized on Table 2 and Figure 3, five (5) of the surface samples and one (1) of the subsurface samples had concentrations of lead exceeding the PADEP Residential Direct Contact MSC and Soil-to-Groundwater MSC. Lead was detected at a concentration at or above the Non-Residential Direct Contact MSC at two locations.

Based on the initial sampling results, supplemental sampling was conducted to refine the vertical and lateral delineation of the lead contamination. Eight (8) supplemental soil samples were collected, and the results and sample locations are shown in Table 2 and Figure 4 respectively. The PADEP MSC exceedances for lead were generally limited to the upper two feet of soil and fill along the western side of the Keystone Color Works building.

An additional 12 soil samples (samples C-SS15 [6"] through C-SS20 [18"]) were collected from six (6) test pits located in the parking lot immediately to the east of the Keystone Color Works building. The analytical results for these samples were below PADEP MSC.

Because samples demonstrated lead concentrations in excess of the Soil-to-Groundwater MSC for lead, one shallow groundwater monitoring well (MW-1S) was installed near the center of the northwestern property boundary. This well provided for the assessment of groundwater quality at this location, and will also support the site-wide assessment of groundwater quality

Monitoring well MW-1S was sampled on January 15, 2008 and February 21, 2008, and all analytical results were below PADEP MSC for all target parameters. Refer to Appendix B for laboratory analytical results, Appendix C for the well log, and Table 12 for a summary of groundwater analytical results.

2.2.3 Weaver's Auto Body, P&S Motors, and Row Houses (Parcels 46-01, 46-02, 46-03, and 46-05)

This area consisted of the Weaver's Auto Body Shop, P&S Motors building, four row houses, and two gravel lots. Railroad tracks mark the northern property boundary, North Beaver Street marks the eastern boundary, and Gay Avenue marks the southern property boundary. The Weaver's Auto Body Shop and P&S Motors buildings are depicted on Figure 4. All of the buildings on the properties were demolished in 2007 and 2008, and the property currently consists of an open lot.

Based on the existing and historic site activities, and the previous detection of petroleum hydrocarbons in soils at the site, ARM completed fourteen (14) soil borings and collected seven (7) soil samples from the north and west sides of the P&S Motors building using Geoprobe direct-push sampling equipment. The borings were advanced to depths ranging from 4 to 12.5 feet below grade. The materials were continuously collected into an acetate sleeve (macro-core sampler), and logged by the attending ARM geologist. The soils were inspected for signs of potential contamination based on odors, staining, and/or elevated readings from a hand-held photoionization detector (PID). Selected samples were submitted to the laboratory for chemical analysis. The soil boring logs from this investigation are included as Appendix C.

In accordance with the approved SAP, eight (8) borings were initially completed, and five (5) soil samples were selected for analysis. Three (3) of the samples from the outside soil borings were analyzed for TCL VOCs, TCL SVOCs, PCBs, and RCRA Metals. Of the two (2) samples collected from inside the building by the hydraulic lift, one (1) sample was analyzed for the PADEP Short List for Used Motor Oil and the other sample was analyzed for the PADEP Short List for Heavy Fuels and Lubrication Oil.

Based on the analytical results, and as summarized on Table 3 and Figure 4, benzene was the only constituent that was detected above its respective PADEP MSC. In particular, benzene was detected in sample location D-SB5 (7.5') at a concentration exceeding the PADEP Soil-to-Groundwater MSC, and also above the soil screening value for protection of residential indoor air.

Based on the sampling results from D-SB5 (7.5'), an additional series of six (6) borings was conducted to better delineate the extent of benzene in subsurface soils. No signs of contamination were detected in any of these supplemental borings, except for elevated PID readings and petroleum odors at depth at boring WADB-5. Based on these readings, samples were collected from two (2) different depths (7.5' and 11') at this boring and submitted for analysis of benzene and related VOCs. As shown on Table 3, benzene was detected at a concentration above the Soil-to-Groundwater MSC at the 7.5' depth (but at a concentration lower than at D-SB5 [7.5']), but the concentration was below the PADEP MSC at the 11' depth.

As can be seen from Figure 4, the benzene contamination at this site was relatively limited, and was generally delineated. More than twenty (20) soil borings were completed in the area to the north and west of the P&S Motors building, yet contamination was only detected in two (2) of the borings, and at concentrations only slightly above the PADEP MSC. Also, the contamination was generally limited to a relatively narrow depth interval, approximately the zone of saturated soils located immediately above the underlying bedrock (bedrock was encountered at a depth of approximately 12.5 feet below grade in this area). It is suspected that this contamination is related to a historic condition or closed UST, with some contaminant migration in the saturated zone to the locations where it was detected in the subsurface soils.

Because soil samples demonstrated benzene concentrations in excess of the Soil-to-Groundwater MSC, one shallow groundwater monitoring well (MW-2S) was installed near the center of the northwestern property boundary. This well provided for the assessment of groundwater quality at this location, and will also support the groundwater investigation scheduled to be conducted at the Ohio Blenders property to the north.

Monitoring well MW-2S was sampled on January 15, 2008 and February 21, 2008, and all analytical results were below PADEP MSC for all target parameters. A laboratory-estimated concentration of 7 micrograms per liter (ug/L) of lead was detected during the first sampling event, but lead was not detected in the well during the second or third sampling events. Refer to Appendix B for laboratory analytical results, Appendix C for the well log, and Table 12 for a summary of the groundwater analytical results.

2.2.4 B&C Fasteners Building (Parcel 45-11)

As generally depicted on Figure 5, this area consisted of the B&C Fasteners industrial building and a sidewalk. The property is bounded by North Beaver Street on the east, Gay Avenue on the north, Park Lane on the west, and a church on the south. The B&C Fasteners building was demolished in 2008 and the property currently consists of an open lot.

A ground-penetrating radar (GPR) survey of the site was initially conducted to confirm the location of a suspected UST below the sidewalk in front of the B&C Fasteners building, and also to determine the potential presence of any USTs located below the concrete floor slab of the building. The GPR survey confirmed the location of two tanks below the outside sidewalk, and also identified two anomalies beneath the floor of the building. One of the anomalies was two USTs placed closely together, while the other is believed to have been a foundation structure.

A total of fourteen (14) soil samples for B&C Fasteners were collected from beneath the building floor using Geoprobe direct-push equipment. Per the approved SAP, ten (10) borings were initially completed, and ten (10) soil samples were collected and analyzed for TCL VOCs, TCL SVOCs, and RCRA Metals. Arsenic exceedances were discovered at several locations. Sampling results are summarized in Table 4, with sample locations shown on Figure 5. Also, a lead concentration exceeding the PADEP Non-Residential and Soil-to-Groundwater MSCs was encountered at sample location E-SS8 (2.5'). To further delineate the arsenic and lead exceedances, four additional soil samples were subsequently collected from a greater depth and were analyzed for arsenic and lead.

Based on the results summarized on Table 4 and Figure 5, the lateral and vertical extent of the arsenic and lead contamination was generally delineated, with the contamination limited to the fill materials and soils in the upper three feet (approximately) below the floor slab in the locations where exceedances were detected.

2.2.5 Trestle Area – York Rail (Parcels 47-01 and 47-01A)

This area consisted of a railroad trestle where railroad cars were loaded and unloaded. The trestles were removed and stockpiles of soil and debris were placed in the area. Composite samples collected from the stockpile area indicated contaminants above PADEP MSC in the northern half of the property.

Based on the results summarized on Table 6 and Figure 6, the lateral and vertical extent of the contamination was generally delineated, with excavation limited by a concrete pad approximately three feet below ground surface.

3.0 EXPOSURE ASSESSMENT

3.1 Direct Contact Exposures

As presented in Section 4.0, all identified impacted soils above the PADEP Residential Statewide Health MSCs have been removed from the site. Based upon the removal of these soils, there are no current or future direct contact exposure pathways or associated risks.

3.2 Ecological Screening

In accordance with Sections 250.311 and 250.404, current and future potential exposures to site-related conditions by environmental receptors were evaluated. The site has historically been used for industrial and commercial activities with no sensitive environmental habitats on site. The Codorous Creek forms the northern boundary of the York Rail property, but is located over 300 feet from the nearest soils above PADEP Residential MSC. In addition, there are no wetlands present at the site. Because all identified impacted soils have been removed, the potential for exposure to sensitive environmental receptors in the future has been eliminated.

3.3 Vapor Screening

Potential inhalation exposure pathways associated with the site were evaluated. Because soils impacted above the PADEP Residential MSCs were removed, there are no existing vapor pathways and no potential for indoor air quality issues. Additionally, none of the concentrations detected exceeded any of the PADEP default screening values for potential vapor intrusion risks, and the constituents of concern were largely metals, which do not present vapor intrusion risks.

4.0 SITE REMEDIATION ACTIVITIES

4.1 Remediation Activities and Results

A Notice of Intent to Remediate (NIR) was filed with PADEP and local newspapers in September 2008 for the Stage One Properties. A copy of the NIR and proofs of publication are included in Appendix H. Selected project photographs are provided in Appendix F.

A general summary of the remedial activities follows:

- Soils with arsenic, benzene, benzo(a)pyrene, chromium, and lead concentrations above the applicable PADEP MSCs were excavated and removed from the NWT Stage I Properties. These soils were sent to Clean Earth Landfill in Hagerstown, MD for disposal.

- Backfill was placed and compacted in the excavated areas to restore the areas to their original grades. Backfill materials were suitable on-site or off-site materials meeting the definition of Clean Fill as presented in the PADEP Management of Fill Policy document (April 2004). Backfill consisted of relatively homogeneous natural soils or aggregates that were free of debris, foreign objects, and organics, and no particles larger than 3 inches. Backfill was spread and compacted in loose lifts of no greater than 8 inches. All backfill was compacted to no less than 95% of the maximum dry density, at a moisture content within +/- 3% of the optimum moisture content, as determined by the Standard Proctor Compaction Test (ASTM D698).

- All laboratory results for the post-excavation sampling are included in the attached Appendix D, with supporting figures presented in Appendix E. Copies of all waste manifests, bills of lading, weigh tickets, and other information documenting the proper off-site disposal or reuse of all materials removed from the site are included in Appendix G.

4.1.1 York Rail, Pullman Apartments, LLP; and Thomas Somerville Co. Properties (Parcels 43-01, 43-02, 43-04, 43-05, and 127-01)

Based upon the sampling results and the anticipated site redevelopment plans, soils were excavated from the upper two feet (approximately) in the areas where arsenic and chromium were detected at concentrations above the Residential MSCs.

Post-excavation soil sampling was completed using a systematic random sampling grid. The sample locations are shown on Figure 1 of Appendix E. Post-excavation sample results indicate that the excavation meets PADEP Residential MSC. Three post-excavation samples exceeded the PADEP MSC for Arsenic. The remaining 11 samples were below PADEP MSC. The excavation meets 75/10x requirements for demonstration of attainment. Refer to Table 7 for the analytical results summary.

All removed soils were sent to Clean Earth Landfill for proper disposal or treatment/recycling, and the excavated areas were backfilled with clean fill.

4.1.2 Keystone Color Works (Parcel 46-09)

Soil was excavated from along the western side of the Keystone Color Works building to a depth of up to approximately two feet in the areas where PADEP MSC exceedances were detected. No excavation was conducted within 15 feet of the center line of the active rail line.

Following soil excavation, post-excavation confirmatory soil sampling using a systematic random grid was conducted. Sample locations are shown on the Figure 3 of Appendix E. All post-excavation sample results were below the applicable PADEP Residential MSCs. Refer to Table 8 for the analytical results summary.

All removed soils were sent to Clean Earth Landfill for proper disposal or treatment/recycling, and the excavated areas were backfilled with clean fill. Railroad ties were removed from a 67 foot long railroad spur and sent to Modern Landfill for disposal.

4.1.3 Weaver's Auto Body, P&S Motors, and Row Houses (Parcels 46-01, 46-02, 46-03, and 46-05)

Based upon the sampling results, subsurface soils located between six and nine feet below grade were excavated from the two separate locations shown on Figure 4. These subsurface soils are suspected to have been contaminated from a leak in a former heating oil UST adjacent to this area. The groundwater table has been encountered at approximately 12 to 13 feet below grade in this location.

Post-excavation samples were collected using a random systematic sampling grid. Sample locations are shown on the attached Figure 2 of Appendix E. Eight samples were collected from each excavation, and all analytical results were below the applicable PADEP MSCs. The soils located shallower than approximately six feet below grade were not contaminated, and were backfilled on site following removal of the contaminated soils and receipt of acceptable post-excavation soil sampling results. Refer to Table 9 for the analytical results summaries.

All removed soil was properly disposed of at Clean Earth Landfill, and the excavated areas were backfilled with clean fill.

4.1.3.1 Weaver's Auto Body Underground Storage Tanks

One underground heating oil storage tank (estimated 15,000-gal size, previously closed-in-place and filled with sand) located at the Weavers Auto Body property (as approximately shown on Figure 4) was removed. The tank was transported off-site as scrap to J&K Salvage of York, PA.

ARM Group collected post-excavation soil samples and soil stockpile samples, which were analyzed for constituents of concern. All results were below the applicable PADEP MSCs. The

sand from the interior of the UST and the soils located immediately adjacent to the UST were taken to Clean Earth Landfill for disposal. Refer to Table 9 for the analytical results summary.

Two railroad spurs measuring a total of 408 feet were removed from the Weaver's Auto Body property. The rail ties were taken to Modern Landfill in York, PA for disposal.

4.1.4 B&C Fasteners Building (Parcel 45-11)

Based upon the sampling results, shallow soils were excavated from below the floor slab of the building to a depth of approximately three feet where PADEP MSC exceedances were detected. These activities were conducted following demolition of the structure, and removal of the floor slab. Three separate excavations were completed, as shown on Figure 5.

Following soil excavation, post-excavation confirmatory soil sampling was conducted using a systematic random sampling grid. Sample locations are shown on Figures 7 and 9 of Appendix E. In the western excavation, one sample exceeded the PADEP MSC for arsenic. The remaining 12 samples were below PADEP MSC. The western excavation meets the 75/10x PADEP requirement for demonstration of attainment.

In the northern excavation, one sample also exceeded the PADEP MSC for Arsenic. The remaining 7 samples were below PADEP MSC. Therefore, the northern excavation also meets the 75/10x PADEP requirement for demonstration of attainment. Refer to Table 10 for the analytical results summary.

All removed soil was properly reused or disposed of at Clean Earth Landfill, and the excavated areas were backfilled with clean fill. Waste manifest summaries are included in Appendix G.

4.1.4.1 B&C Fasteners Underground Storage Tanks

Two heating oil USTs were removed from beneath the sidewalk on the east side of the B&C Fasteners building on October 18, 2007. Environmental Waste Minimization Inc. (EWMI) from Northampton, PA, performed the UST removal activities under ARM's supervision. The results of these removals were reported in the Interim Phase II report.

Two 500-gallon underground heating oil or steam storage tanks were removed from beneath the building following demolition of the building on site. The tanks were transported off site as scrap to J&K Salvage of York, PA. ARM Group collected post-excavation soil samples beneath the heating oil tank, and analyzed them for constituents of concern (see Figure 8 of Appendix E). All eight samples collected from the South Excavation were below applicable PADEP MSCs. The UST excavation was backfilled with clean fill and compacted. Refer to Table 11 for the analytical results summary.

4.1.5 Trestle Area – York Rail (Parcels 47-01 and 47-01A)

The contaminated soil and debris located in the northern half of the trestle area (see Figure 6) were excavated and removed for off-site recycling and/or disposal.

With respect to the fill materials located within the southern half of the trestle area, the contractor screened the materials and removed all railroad ties and other debris from the soils. These materials were removed and recycled or disposed of at Modern Landfill (railroad ties) or Clean Earth Landfill (impacted soils), and replaced with imported backfill.

Post-excavation samples were collected using a systematic random sampling grid. Sample locations are shown on Figures 4, 5 and 6 of Appendix E. Two rounds of attainment samples were collected from the northern excavation. Several samples from the initial round of sampling exceeded PADEP MSC for Arsenic during the first round of sampling. Additional excavation was completed in the northern excavation and the area was resampled. All 12 samples from the second round of sampling were below PADEP MSC. Refer to Table 11 for the analytical results summaries.

Additional delineation samples were collected from the southern half of the Trestle Area following railroad tie and waste material removal. These samples indicated that arsenic exceeded PADEP MSC. Additional soils were then excavated from this area.

Following excavation, post-delineation samples were collected using a systematic random sampling grid. One sample was above PADEP MSC for arsenic in the southern excavation. The remaining 11 samples in the southern excavation were below PADEP MSC. The southern excavation meets the 75/10x PADEP requirement for demonstration of attainment. Refer to Tables 11 for the analytical results summaries.

All soil removed from the trestle area was properly reused or disposed of at Clean Earth Landfill, and the excavated areas were backfilled with clean fill to a level, free-draining surface even with the surrounding land.

5.0 DEMONSTRATION OF ATTAINMENT

5.1 Introduction

This section summarizes site information to demonstrate attainment of the Act 2 Residential Statewide Health Standards (SHSs) for organic and inorganic constituents detected in soils at the site. In general, attainment of the SHS has been attained through site remediation activities. The attainment demonstration has been completed in accordance with the provisions of Sections 250.703 and 250.704 of the Chapter 250 requirements, and a formal release of liability for the constituents detected in the soils at the Stage One Properties (i.e., arsenic, benzene, benzo(a)pyrene, chromium, and lead) is requested in accordance with the provisions of Act 2.

5.2 Soils

When excavation activities were completed in any designated area, ARM collected post-excavation soil samples to confirm attainment of the statewide health MSCs for residential and non-residential sites. In accordance with 25 Pa Code Chapter 250, Section 703, and based on a material volume of less than 3,000 cubic yards, a minimum of 8 post-excavation soil samples were collected from excavations less than 125 cubic yards (B&C Fasteners North and South Excavations, Keystone Color Works Excavation, and the Weavers Auto Body East and West Excavations), and 12 post-excavation soil samples were collected from the remaining excavations within the boundaries defined by the delineation sampling results. The sampling locations were initially selected using a systematic random procedure developed from PADEP guidance (including the Systematic Random Sampling Workbook, PADEP, January 26, 2000; see Appendix E for the established coordinate points), although additional samples were collected to further delineate the excavations. To further confirm attainment of the MSCs, sidewall sampling locations were also collected around the perimeter of the large excavation using a generally random approach, but focused to locations where initial delineation samples were less frequent.

Sampling protocols were consistent with PADEP guidance for such work, and the analytical suite for all samples included all of the constituents that had been detected above their respective statewide health MSCs during the investigation activities (i.e., arsenic, benzene, benzo(a)pyrene, chromium, and lead). Post-excavation sampling results are summarized on Tables 7 through 11 and Figures 1 through 10 in Appendix E, and the laboratory data sheets are presented in Appendix D.

Based on the results presented in Tables 7 through 11, the removal activities and associated sampling demonstrates attainment of the statewide health MSCs for residential sites pursuant to the requirements of Act 2. Because more than 75% of the final sample results are below the MSC, and no one sample is more than 10 times the MSC, attainment of the residential statewide health MSCs for arsenic, benzene, benzo(a)pyrene, chromium, and lead has been demonstrated in accordance with the provisions of Section 250.707(b)(1)(i).

5.3 Conclusions

Based on the conclusions presented above, and through the submittal of this Final Report, PADEP confirmation of the release of liability afforded under Act 2 for the metals and organics detected in the soils at the Stage One Properties in the Northwest Triangle of the City of York is requested. Finally, and because no additional engineering or institutional controls are required to maintain a cleanup standard, and in accordance with Section 250.312(e), a post-closure care plan in not required and has not been included.

6.0 REFERENCES

A. PA Department of Environmental Protection. Act 2 Land Recycling Program Manual. June 2002.

B. Various Reports and Letters by others as follows:

1. June 1, 2004, Environmental Assessment, Edge Environmental Inc.

2. December 23, 2004, rev. June 2, 2005, Phase I Environmental Site Assessment, Southern Parcel of the Northwest Triangle, Pennoni Associates, Inc.

3. December 21, 2005, Interim Site Characterization, Keystone Color Works and Ohio Blenders, GTS Technologies, Inc.

4. June 14, 2006, Site Characterization Report, Weaver's Auto Body, Alliance Environmental Services, Inc.

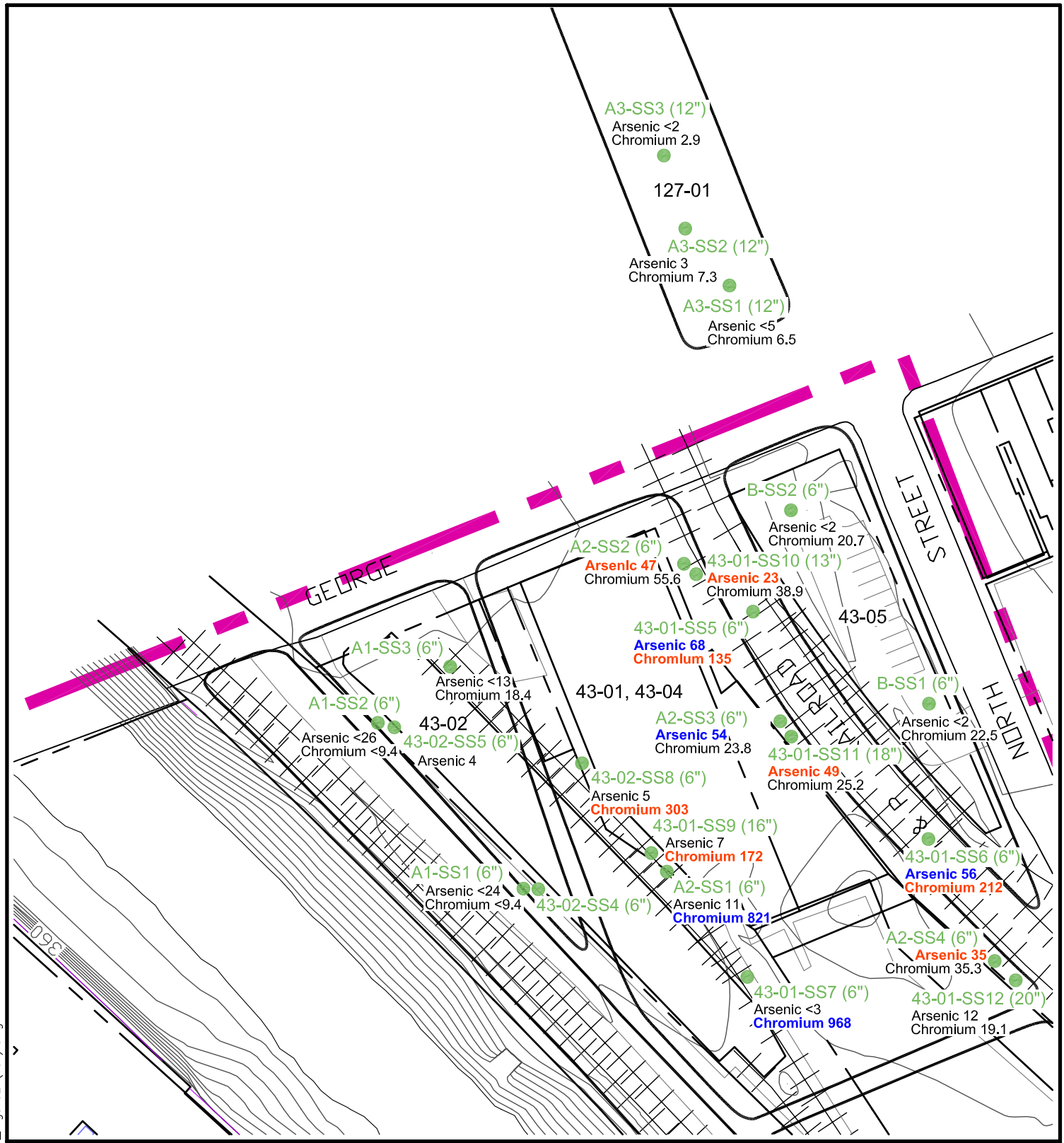
5. December, 2007. Interim Phase II Environmental Site Assessment Report, ARM Group, Inc.

FIGURES



T:\07214 NWT Act 2 Project_Drwg\07214_Figure1.dwg

ARM Group Inc. Earth Resource Engineers and Consultants 1129 West Governor Road • Hershey, PA 17033-0797	**Site Layout** Northwest Triangle Initiative City of York York County, PA	December 2007 1" = 200' 07214	Figure **1**



LEGEND

A1-SS1 — Surface Soil Sampling Location

Arsenic <26 — Result in Milligrams per Kilogram (mg/Kg)

Arsenic 47 — Exceeds Residential Direct Contact Standard

Chromium 821 — Exceeds Non-Residential Direct Contact Standard

0 100 200 300

SCALE IN FEET

Soil Sampling Summary For York Rail Property

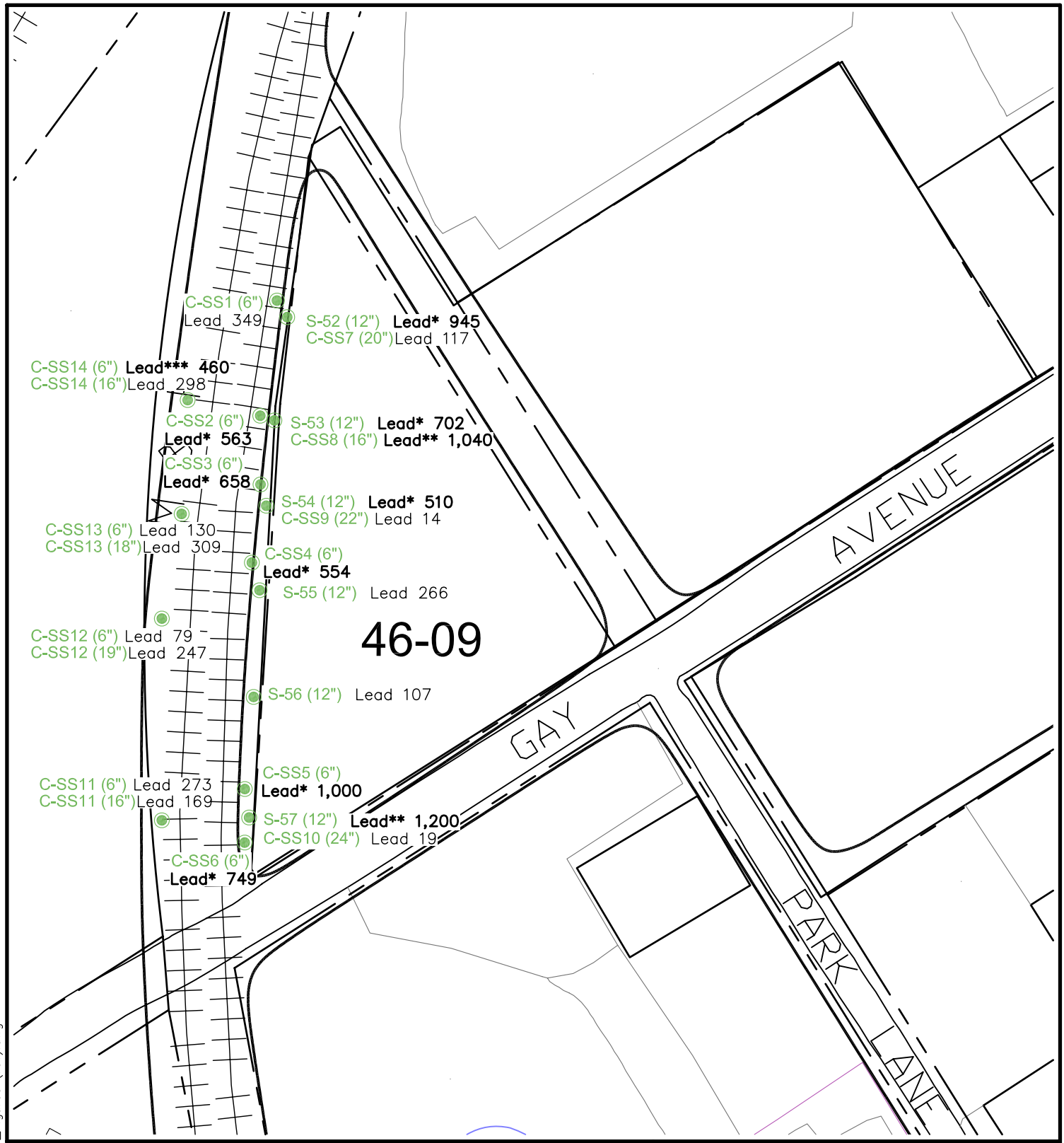
Northwest Triangle Initiative
City of York, PA

December 2007	Scale: 1" = 100'	07214

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Figure 2

T:\07214 NWT Act 2 Project_Drwg\07214_Figure2 (rev).dwg



LEGEND

C-SS1 (6") – Sample Location

Lead 107 – Result in Milligrams per Kilogram (mg/Kg)
Lead* – Result exceeds Residential Direct Contact and Soil to Groundwater Standard
Lead** – Result exceeds Non–Residential Direct Contact and Soil to Groundwater Standard
Lead*** – Result exceeds Soil to Groundwater Standard

0 50 100 150
SCALE IN FEET

Soil Sampling Summary For Keystone Color Works

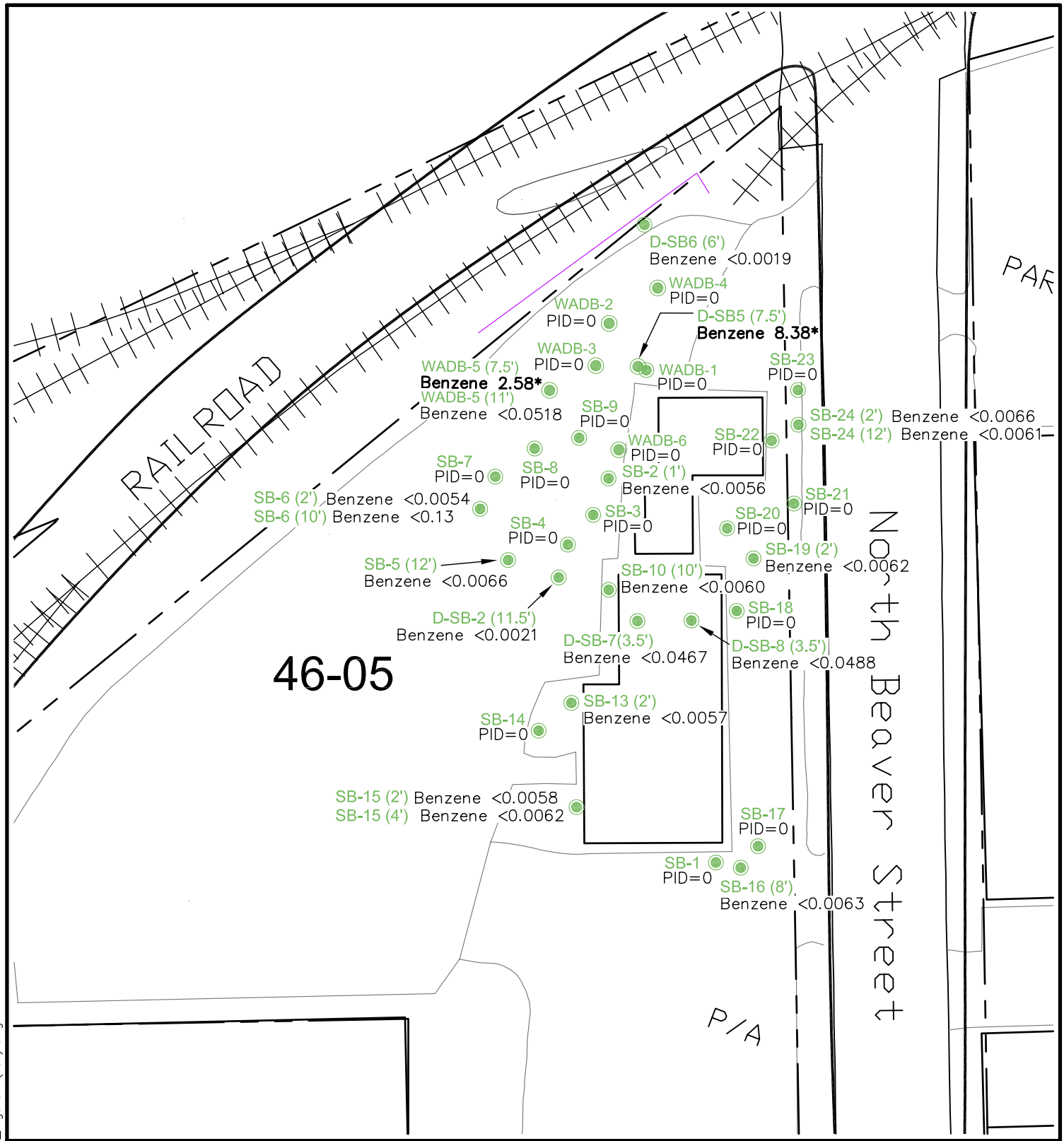
Northwest Triangle Initiative
City of York, PA

December 2007	Scale: 1" = 50'	07214

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Earth Resource Engineers and Consultants
1129 West Governor Road • Hershey, PA 17033-0797

Figure 3

T:\07214 NWT Act 2 Project_Drwg\07214_Figure3 (rev).dwg



LEGEND

◉ D-SS5 (7.5') – Sample Location

Benzene <0.0019 – Result in Milligrams per Kilogram (mg/Kg)

Benzene* – Result exceeds Soil to Groundwater Standards

PID=0 Photo–ionization detector result in parts per million

0 50 100 150

SCALE IN FEET

Soil Sampling Summary For Weavers Auto Body

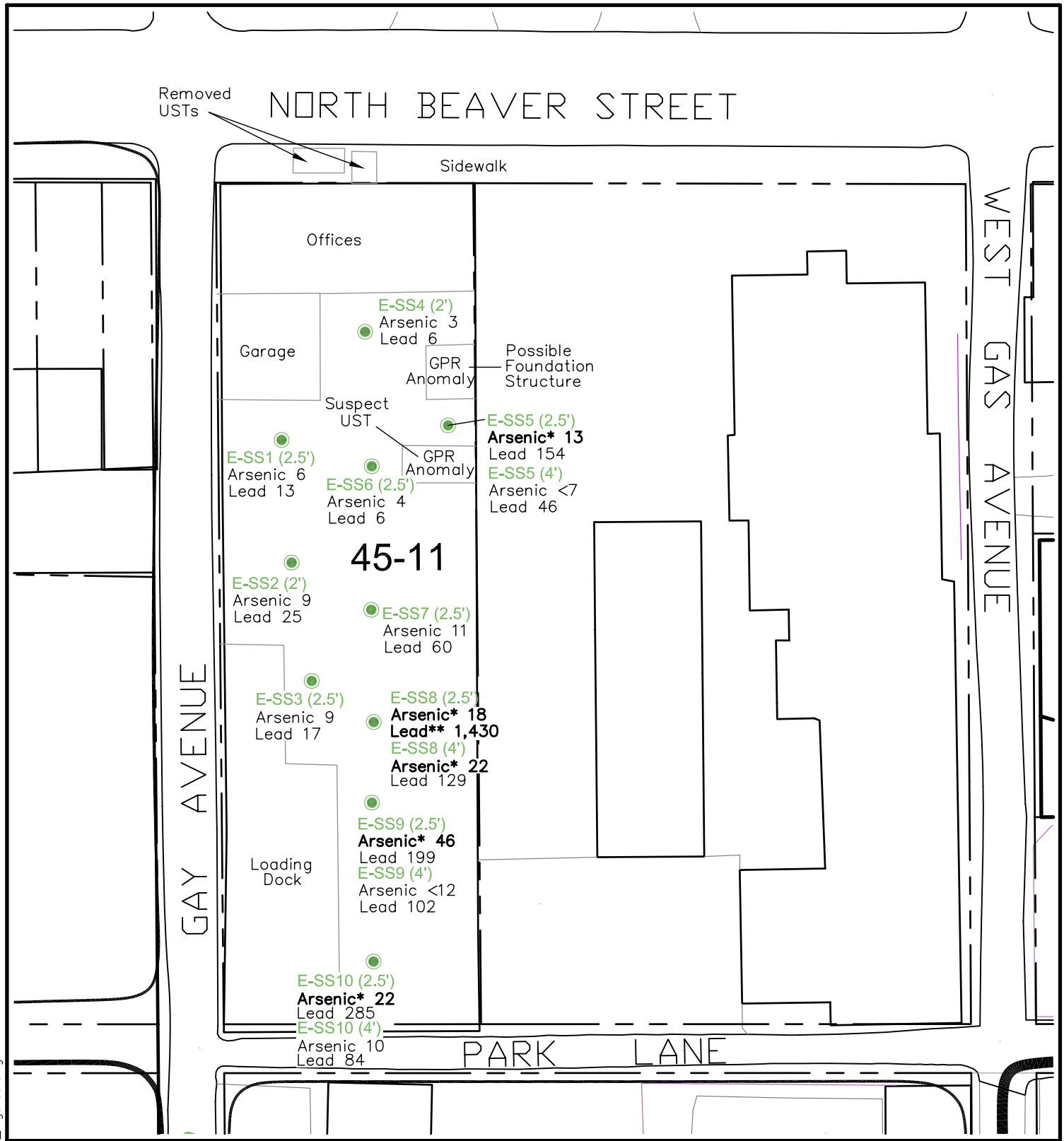
Northwest Triangle Initiative
City of York, PA

December 2007	Scale: 1" = 50'	07214

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Figure 4

T:\07214 NWT Act 2 Project_Drwg\07214_Figure4 (rev).dwg



LEGEND

E-SS1 (2.5') – Sample Location

Arsenic – Result in Milligrams per Kilogram (mg/Kg)
Arsenic* – Result exceeds Residential Direct Contact Standard
Lead** – Result exceeds Residentia Direct Contactl and Soil to Groundwater Standard

0 50 100 150
SCALE IN FEET

Soil Sampling Summary For B&C Fasteners

Northwest Triangle Initiative
City of York, PA

November 2007	Scale: 1" = 50'	07214

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Figure 5

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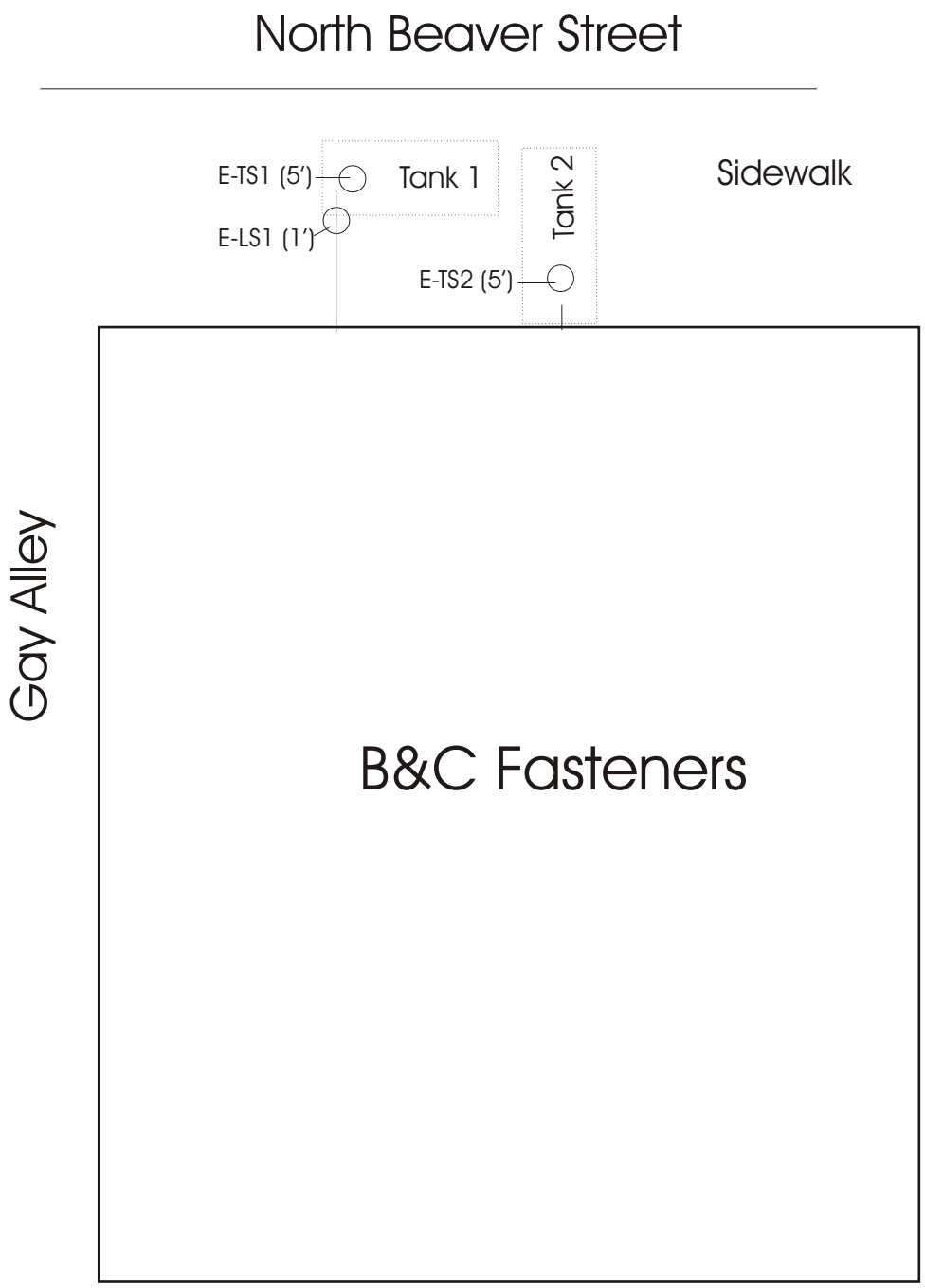


Figure 6

N

B&C Fasteners
150 North Beaver St
York, PA

B&C Fasteners UST
Sample Location Map

Northwest Triangle
York City, York Co., PA

November, 2007

07214

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TABLES

Table 1
Summary of Soil Sample Results for the York Rail Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Volatile/Semi-Volatile/PCBs/Herbicides Analytical Results
Sample Date July 17-20, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	A1-SS1 (6")	A1-SS2 (6")	A1-SS3 (6")	A2-SS1 (6")	A2-SS2 (6")	A2-SS3 (6")	A2-SS4 (6")	A3-SS1 (1.0')	A3-SS2 (1.0')	A3-SS3 (1.0')	B-SS1 (6")	B-SS2 (6")
Acetone	**10,000**	**10,000**	**41**	<0.0234	**0.033**	<0.0298	**0.0206**	**0.253**	**0.909**	**0.640**	<0.0264	<0.021	<0.0262	**1.140**	**0.188**
Benzene	**41**	**210**	**0.5**	<0.0019	<0.0016	<0.0024	<0.0016	<0.0025	<0.0026	**0.0028**	<0.0021	<0.0016	<0.0021	<0.0536	<0.0022
2-Butanone	**10,000**	**10,000**	**580**	<0.0094	**0.0125**	<0.0119	<0.0082	<0.0123	<0.0131	<0.00137	<0.0105	<0.0080	<0.0105	**0.0209**	**0.0196**
Carbon Disulfide	**10,000**	**10,000**	**160**	<0.0019	<0.0016	**0.0042**	<0.0016	<0.0025	<0.0026	<0.0027	<0.0021	<0.0016	<0.0021	<0.0019	<0.0022
Ethylbenzene	**10,000**	**10,000**	**70**	<0.0019	<0.0016	<0.0024	<0.0016	<0.0025	<0.0026	<0.0027	<0.0021	<0.0016	<0.0021	**0.0025**	<0.0022
Toluene	**7,600**	**10,000**	**100**	<0.0019	**0.0154**	<0.0024	<0.0016	<0.0025	<0.0026	**0.0028**	<0.0021	<0.0016	<0.0021	<0.0019	<0.0022
Total Xylenes	**8,000**	**10,000**	**1,000**	<0.0056	<0.0049	<0.0072	<0.0049	<0.0074	<0.0079	**0.0084**	<0.0063	<0.0048	<0.0063	**0.0141**	<0.0066
o-Xylene	-	-	-	<0.0019	<0.0016	<0.0024	<0.0016	<0.0025	<0.0026	<0.0027	<0.0021	<0.0016	<0.0021	**0.0030**	<0.0022
mp-Xylene	-	-	-	<0.0038	<0.0033	<0.0048	<0.0033	<0.0049	**0.0065**	**0.0068**	<0.0042	<0.0032	<0.0042	**0.0111**	<0.0044
Acenaphthene	**13,000**	**170,000**	**2,700**	<0.143	<0.071	<0.076	<0.293	<0.151	<0.075	<0.306	<0.074	**0.228**	**0.140**	<0.072	<0.074
Acenaphthylene	**13,000**	**170,000**	**2,500**	**0.315**	**0.071**	<0.076	**1.280**	**0.378**	**0.309**	**1.180**	**0.075**	**0.251**	**0.136**	<0.072	<0.074
Anthracene	**66,000**	**190,000**	**350**	<0.143	<0.071	<0.076	**0.524**	**0.221**	**0.149**	**1.010**	**0.153**	**0.772**	**0.441**	<0.072	<0.074
Benzo(a)anthracene	**25**	**110**	**79**	**0.528**	**0.142**	**0.114**	**2.830**	**0.554**	**0.670**	**3.930**	**0.654**	**2.470**	**1.390**	<0.072	<0.074
Benzo(a)pyrene	**2.5**	**11**	**46**	**0.893**	**0.236**	**0.163**	**2.930**	**0.787**	**0.925**	**5.080**	**0.620**	**2.650**	**1.460**	<0.072	<0.074
Benzo(b)fluoranthene	**250**	**1,100**	**120**	**0.766**	**0.241**	**0.246**	**3.110**	**1.130**	**1.170**	**5.900**	**0.826**	**3.060**	**1.990**	<0.072	<0.074
Benzo(g,h,i)perylene	**13,000**	**170,000**	**180**	**0.609**	**0.077**	**0.095**	**1.960**	**0.593**	**0.143**	**3.220**	<0.074	**0.309**	**0.118**	<0.072	<0.074
Benzo(k)fluoranthene	**250**	**1,100**	**610**	**0.806**	**0.285**	**0.252**	**3.460**	**0.829**	**1.170**	**4.730**	**0.918**	**2.960**	**1.910**	<0.072	<0.074
Chrysene	**2,500**	**11,000**	**230**	**0.647**	**0.210**	**0.196**	**2.940**	**0.876**	**0.998**	**4.870**	**0.720**	**2.780**	**1.580**	<0.072	<0.074
Dibenzo(a,h)anthracene	**2.5**	**11**	**41**	**0.190**	<0.071	<0.076	**0.651**	**0.240**	**0.096**	**1.420**	<0.074	**0.272**	**0.100**	<0.072	<0.074
bis(2-Ethylhexyl)phthalate	**1,300**	**5,700**	**130**	<0.205	<0.101	<0.108	<0.418	**0.639**	<0.107	<0.437	<0.105	<0.202	<0.101	<0.103	<0.105
Fluoranthene	**8,800**	**110,000**	**3,200**	**0.709**	**0.253**	**0.155**	**4.240**	**0.901**	**1.240**	**6.620**	**1.590**	**4.660**	**3.260**	<0.072	<0.074
Fluorene	**8,800**	**110,000**	**3,000**	<0.143	<0.071	<0.076	<0.293	<0.151	<0.075	<0.306	<0.074	**0.247**	**0.135**	<0.072	<0.074
Indeno(1,2,3-cd)pyrene	**25**	**110**	**7,000**	**0.668**	**0.108**	**0.128**	**2.300**	**0.651**	**0.277**	**3.920**	**0.093**	**0.579**	**0.223**	<0.072	<0.074
2-Methylnaphthalene	**4,400**	**10,000**	**8,000**	<0.143	<0.071	<0.076	<0.293	**0.179**	<0.075	<0.306	<0.074	<0.141	<0.071	<0.072	<0.074
Phenanthrene	**66,000**	**190,000**	**2,200**	**0.173**	**0.085**	<0.076	**0.371**	**0.452**	**0.470**	**2.580**	**0.819**	**3.380**	**2.160**	<0.072	<0.074
Pyrene	**6,600**	**84,000**	**2,200**	**0.810**	**0.254**	**0.152**	**4.130**	**0.826**	**1.040**	**5.590**	**1.260**	**4.090**	**2.670**	<0.072	<0.074
Aroclor-1260	**30**	**130**	**500**	<0.034	<0.034	<0.036	<0.035	**0.086**	**0.039**	**0.217**	<0.036	<0.032	<0.034	<0.034	<0.035
2,4-DB	-	-	-	NA	NA	<0.016	NA	**0.030**	NA	NA	NA	NA	NA	NA	NA

Notes:
All results in milligrams per kilogram (mg/kg)
Sample depths are shown in parenthesis as part of the sample name
MSC = PADEP Statewide Health Medium Specific Concentration (blank space indicates that no MSC has been established for that parameter)
NA = Not Analyzed

Table 1 (cont.)
Summary of Soil Sample Results for the York Rail Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Total Metals Analytical Results
Sample Date July 17-20, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	A1-SS1 (6")	A1-SS2 (6")	A1-SS3 (6")	A2-SS1 (6")	A2-SS2 (6")	A2-SS3 (6")	A2-SS4 (6")	A3-SS1 (1.0')	A3-SS2 (1.0')	A3-SS3 (1.0')	B-SS1 (6")	B-SS2 (6")
Arsenic	**12**	**53**	**150**	<24	<26	<13	**11**	**47**	**54**	**35**	<5	**3**	<2	<2	<2
Barium	**15,000**	**190,000**	**8,200**	**12**	**39**	**1,110**	**543**	**144**	**110**	**106**	**58**	**33**	**19**	**76**	**56**
Cadmium	**47**	**210**	**38**	<4.7	<5.1	**1.1**	**4.4**	**2.2**	**1.2**	**2.1**	**0.9**	<0.3	<0.4	**0.8**	**0.9**
Chromium	**94**	**420**	**8,200**	<9.4	<10.3	**18.4**	**821**	**55.6**	**23.8**	**35.3**	**6.5**	**7.3**	**2.9**	**22.5**	**20.7**
Lead	**500**	**1,000**	**450**	**55**	**42**	<1	**122**	**362**	**164**	**266**	**14**	**34**	**15**	**9**	**10**
Mercury	**66**	**840**	**10**	<0.19	<0.19	<0.20	<0.19	<0.20	**0.24**	<0.19	<0.18	<0.19	<0.18	**0.18**	<0.19

Soil Arsenic and Chromium Analytical Results
Sample Date November 2, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	43-02-SS4 (6")	43-02-SS5 (6")	43-01-SS5 (6")	43-01-SS6 (6")	43-01-SS7 (6")	43-01-SS8 (6")	43-01-SS9 (16")	43-01-SS10 (13")	43-01-SS11 (18")	43-01-SS12 (20")
Arsenic	**12**	**53**	**150**	**4**	**3**	**68**	**56**	<3	**5**	**7**	**23**	**49**	**12**
Chromium	**94**	**420**	**8,200**	NA	NA	**135**	**212**	**968**	**303**	**172**	**38.9**	**25.2**	**19.1**

Notes:
All results in milligrams per kilogram (mg/kg)
Sample depths are shown in parenthesis as part of the sample name
MSC = PADEP Statewide Health Medium Specific Concentration
821 Result exceeds PADEP MSC
NA = Not Analyzed

Table 2
Summary of Soil Sample Results for the Keystone Color Works Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Lead Analytical Results
Sample Date July 18, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	C-SS1 (6")	C-SS2 (6")	C-SS3 (6")	C-SS4 (6")	C-SS5 (6")	C-SS6 (6")	C-SS7 (20")	C-SS8 (16")	C-SS9 (22")	C-SS10 (24")
Lead	500	1,000	450	349	563	658	554	1,000	749	17	1,040	14	19

Soil Lead Analytical Results
Sample Date November 1, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	C-SS11 (6")	C-SS11 (16")	C-SS12 (6")	C-SS12 (19")	C-SS13 (6")	C-SS13 (18")	C-SS14 (6")	C-SS14 (16")
Lead	500	1,000	450	273	169	79	247	130	309	460	295

Notes:
All results in milligrams per kilogram (mg/kg)
Sample depths are shown in parenthesis as part of the sample name
MSC = PADEP Statewide Health Medium Specific Concentration
1,000 Result exceeds PADEP MSC

Table 3
Summary of Soil Sample Results for the Weaver's Auto Body Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Volatile/Semi-Volatile/PCBs Analytical Results
Sample Date July 19-20 and November 1, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (2-15')	Unsaturated Soil to Groundwater MSC	Saturated Soil to Groundwater MSC	D-SB2 (11.5')	D-SB5 (7.5')	D-SB6 (6')	D-SB7 (3.5')	D-SB8 (3.5')	WADB-5 (7.5')	WADB-5 (11')
Acetone	**10,000**	**10,000**	**370**	**370**	**0.0450**	<0.522	**0.0339**	NA	NA	<0.488	<0.518
Benzene*	**41**	**210**	**0.5**	**0.5**	<0.0021	**8.380**	<0.0019	<0.0467	<0.0488	**2.580**	<0.0518
n-Butylbenzene	**8,800**	**10,000**	**950**	**950**	NA	NA	NA	NA	NA	**0.526**	<0.0518
sec-Butylbenzene	**8,800**	**10,000**	**350**	**350**	NA	NA	NA	NA	NA	**0.443**	**0.185**
Cumene	**7,300**	**10,000**	**780**	**780**	NA	NA	NA	NA	NA	**0.0690**	<0.0518
Cyclohexane	-	-	-	-	NA	NA	NA	NA	NA	**0.0748**	<0.0518
Ethylbenzene	**10,000**	**10,000**	**70**	**70**	<0.0021	**3.860**	<0.0019	<0.0467	NA	**0.655**	<0.0518
Hexane	**3,800**	**10,000**	**500**	**500**	NA	NA	NA	NA	NA	**0.607**	<0.0518
Methylene Chloride	**680**	**4,000**	**0.076**	**0.076**	**0.0028**	<0.0522	<0.0019	NA	NA	<0.0488	<0.0518
Methyl cyclohexane	-	-	-	-	NA	NA	NA	NA	NA	**0.418**	<0.0518
Octane	-	-	-	-	NA	NA	NA	NA	NA	**0.393**	<0.155
Pentane	-	-	-	-	NA	NA	NA	NA	NA	**0.585**	<0.104
n-Propylbenzene	**8,800**	**10,000**	**290**	**290**	NA	NA	NA	NA	NA	**0.212**	<0.0518
Toluene	**7,600**	**10,000**	**100**	**100**	<0.0021	**8.110**	<0.0019	<0.0467	NA	**1.980**	<0.0518
1,2,4-Trimethylbenzene	**110**	**360**	**9**	**9**	NA	NA	NA	NA	NA	**0.642**	<0.0518
1,3,5-Trimethylbenzene	**110**	**360**	**2.8**	**2.8**	NA	NA	NA	NA	NA	**0.106**	<0.0518
Total Xylenes	**8,000**	**10,000**	**1,000**	**1,000**	<0.0063	**9.670**	<0.0056	NA	NA	**1.470**	<0.155
o-Xylene	-	-	-	-	<0.0021	**1.750**	<0.0019	NA	NA	**0.245**	<0.0518
mp-Xylene	-	-	-	-	<0.0042	**7.920**	<0.0037	NA	NA	**1.220**	<0.0518
Acenaphthene	**13,000**	**170,000**	**2,700**	**2,700**	<0.093	**0.347**	<0.086	NA	NA	NA	NA
Acenaphthylene	**13,000**	**170,000**	**2,500**	**250**	<0.093	**0.104**	<0.086	NA	NA	NA	NA
Anthracene	**66,000**	**190,000**	**350**	**35**	<0.093	**0.174**	<0.086	NA	<0.0594	NA	NA
Chrysene	**2,500**	**11,000**	**230**	**23**	<0.093	<0.083	<0.086	<0.557	**0.0723**	NA	NA
Dibenzofuran	-	-	-	-	<0.132	**0.227**	<0.123	NA	NA	NA	NA
Fluorene	**8,800**	**110,000**	**3,000**	**300**	<0.093	**0.627**	<0.086	NA	<0.0594	NA	NA
2-Methylnaphthalene	**4,400**	**10,000**	**73**	**7.3**	<0.093	**8.280**	<0.086	NA	NA	NA	NA
Naphthalene	**4,400**	**190,000**	**25**	**10**	<0.093	**0.512**	<0.086	**0.169**	<0.0975	NA	NA
N-Nitrososodiphenylamine	**3,700**	**190,000**	**83**	**2**	<0.093	**0.670**	<0.123	NA	NA	NA	NA
Phenanthrene	**66,000**	**190,000**	**2,200**	**220**	<0.093	**2.080**	<0.086	NA	**0.238**	NA	NA
Pyrene	**6,600**	**84,000**	**2,200**	**220**	<0.093	**0.195**	<0.086	NA	**0.106**	NA	NA

Notes:
All results in milligrams per kilogram (mg/kg)
Sample depths are shown in parenthesis as part of the sample name
MSC = PADEP Statewide Health Medium Specific Concentration (blank space indicates that no MSC has been established for that parameter)
8.38 Result exceeds PADEP MSC
NA = Not Analyzed
* Note: The PADEP's soil screening value for protection of residential indoor air is 0.37 mg/kg for benzene.

Table 3 (cont.)
Summary of Soil Sample Results for the Weaver's Auto Body Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Total Metals Analytical Results
Sample Date July 19-20, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	D-SB2 (11.5')	D-SB5 (7.5')	D-SB6 (6')	D-SB7 (3.5')	D-SB8 (3.5')
Arsenic	**12**	**190,000**	**150**	**4**	**6**	**5**	NA	NA
Barium	**15,000**	**190,000**	**8,200**	**20**	**51**	**151**	NA	NA
Cadmium	**47**	**190,000**	**38**	**1.3**	**1.2**	**0.8**	NA	NA
Chromium	**94**	**190,000**	**8,200**	**7.0**	**20.3**	**19.6**	NA	NA
Lead	**500**	**190,000**	**450**	**19**	**13**	**36**	**18**	NA
Mercury	**66**	**190,000**	**10**	<0.22	<0.21	**0.24**	NA	NA

Notes:
All results in milligrams per kilogram (mg/kg)
Sample depths are shown in parenthesis as part of the sample name
MSC = PADEP Statewide Health Medium Specific Concentration
NA = Not Analyzed

Table 4
Summary of Soil Sample Results for the B&C Fasteners Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Volatile/Semi-Volatile Analytical Results
Sample Date July 26, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	E-SS1 (2.5')	E-SS2 (2')	E-SS3 (2.5')	E-SS4 (2')	E-SS5 (2.5')	E-SS6 (2.5')	E-SS7 (2.5')	E-SS8 (2.5')	E-SS9 (2.5')	E-SS10 (2.5')
Acetone	**10,000**	**10,000**	**10,000**	**41**	<0.0173	**0.0268**	<0.024	**0.0300**	**0.0406**	<0.0193	**0.0263**	<0.027	<0.0229	<0.0207
Methylene Chloride	**680**	**3,500**	**4,000**	**0.5**	<0.0014	<0.0019	<0.0019	<0.0019	**0.0030**	**0.0022**	**0.0024**	<0.0022	<0.0018	<0.0017
Benzo(a)anthracene	**25**	**110**	**190,000**	**79**	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	**0.107**	**0.155**	**0.154**
Benzo(a)pyrene	**2.5**	**11**	**190,000**	**46**	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	**0.100**	**0.188**	**0.162**
Benzo(b)fluoranthene	**250**	**1,100**	**190,000**	**120**	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	**0.101**	**0.189**	**0.216**
Benzo(g,h,i)perylene	**13,000**	**170,000**	**190,000**	**180**	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	<0.083	**0.163**	<0.076
Benzo(k)fluoranthene	**250**	**1,100**	**190,000**	**610**	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	**0.120**	**0.192**	**0.146**
Chrysene	**2,500**	**11,000**	**11,000**	**230**	<0.084	<0.072	<0.087	<0.080	**0.103**	<0.073	<0.083	**0.189**	**0.263**	**0.259**
Fluoranthene	**8,800**	**110,000**	**190,000**	**3,200**	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	**0.240**	**0.401**	**0.390**
Indeno(1,2,3-cd)pyrene	**25**	**110**	**190,000**	**7,000**	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	<0.083	**0.138**	<0.076
Phenanthrene	**66,000**	**190,000**	**190,000**	**2,200**	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	**0.235**	**0.271**	**0.285**
Pyrene	**6,600**	**84,000**	**84,000**	**2,200**	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	**0.0083**	**0.234**	**0.470**	**0.363**

Notes:
All results in milligrams per kilogram (mg/kg)
Sample depths are shown in parenthesis as part of the sample name
MSC = PADEP Statewide Health Medium Specific Concentration

Table 4 (cont.)
Summary of Soil Sample Results for the B&C Fasteners Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Total Metals Analytical Results
Sample Dates July 26 and November 1, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	E-SS1 (2.5')	E-SS2 (2')	E-SS3 (2.5')	E-SS4 (2')	E-SS5 (2.5')	E-SS5 (4')	E-SS6 (2.5')	E-SS7 (2.5')	E-SS8 (2.5')	E-SS8 (4')	E-SS9 (2.5')	E-SS9 (4')	E-SS10 (2.5')	E-SS10 (4')
Arsenic	**12**	**53**	**190,000**	**150**	**6**	**9**	**9**	**3**	**13**	<7	**4**	**11**	**18**	**22**	**46**	<12	**22**	**10**
Barium	**15,000**	**190,000**	**190,000**	**8,200**	**60**	**62**	**100**	**38**	**117**	NA	**29**	**96**	**84**	NA	**98**	NA	**91**	NA
Cadmium	**47**	**210**	**190,000**	**38**	<0.5	<0.4	<0.5	<0.5	<0.3	NA	<0.4	<0.6	<0.5	NA	**0.6**	NA	**0.9**	NA
Chromium	**94**	**420**	**190,000**	**8,200**	**29.5**	**19.7**	**40.2**	**8.3**	**11.7**	NA	**10.3**	**26.4**	**19.7**	NA	**37.0**	NA	**32.4**	NA
Lead	**500**	**1,000**	**190,000**	**450**	**13**	**25**	**17**	**6**	**154**	**46**	**6**	**60**	**1,430**	**129**	**199**	**102**	**285**	**84**

Notes:
All results in milligrams per kilogram (mg/kg)
Sample depths are shown in parenthesis as part of the sample name
MSC = PADEP Statewide Health Medium Specific Concentration
13 Result exceeds PADEP MSC
NA = Not Analyzed

Table 5
Summary of Soil Sample Results for Underground Storage Tank Removal
at the B&C Fasteners Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Analytical Results
Sample Date October 18, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	E-TS1 (5')	E-TS2 (5')	E-LS1 (1')
Benzene	**41**	**210**	**240**	**0.5**	<0.0533	<0.0452	<0.272
Ethylbenzene	**10,000**	**10,000**	**10,000**	**70**	<0.0533	<0.0452	<0.272
Isopropylbenzene (Cumene)	**7,300**	**10,000**	**10,000**	**780**	<0.0533	<0.0452	<0.272
Naphthalene	**4,400**	**56,000**	**190,000**	**25**	<0.107	<0.0905	<0.545
Toluene	**7,600**	**10,000**	**10,000**	**100**	<0.0533	<0.0452	<0.272
Fluorene	**8,800**	**110,000**	**190,000**	**3,000**	<0.118	<0.110	<0.115
Phenanthrene	**66,000**	**190,000**	**190,000**	**10,000**	<0.118	<0.110	<0.115

Notes:
All results in milligrams per kilogram (mg/kg)
Sample depths are shown in parenthesis as part of the sample name
MSC = PADEP Statewide Health Medium Specific Concentration

Table 6
Summary of Soil Sample Results for the Trestle Area Property
Northwest Triangle Initiative
York City, York County, Pennsylvania

Soil Total Metals Analytical Results
Sample Date September 11, 2008

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	Y-S1 (3')	Y-S3 (3')	Y-S3 (5')	Y-S6 (4')
Arsenic	**12**	**190,000**	**150**	**10**	**18**	**18**	**9**
Barium	**15,000**	**190,000**	**8,200**	**117**	**107**	**73**	**92**
Cadmium	**47**	**190,000**	**38**	**0.6**	**1.1**	**0.5**	**1.8**
Chromium	**94**	**190,000**	**190,000**	**14.2**	**29.9**	**11.6**	**37.0**
Lead	**500**	**190,000**	**450**	**67**	**121**	**54**	**145**
Mercury	**66**	**190,000**	**10**	<0.2	<0.22	**0.31**	**0.51**
Silver	**1,100**	**190,000**	**100**	<0.5	<0.6	**0.6**	**1**

All results in parts per million (ppm)
MSC = PADEP Statewide Health Medium Specific Concentration
NA = Not Analyzed

Table 6 (cont.)
Summary of Soil Sample Results for the Trestle Area Property
Northwest Triangle Initiative
York City, York County, Pennsylvania
Trestle Area Property

Soil Semi-Volatile Analytical Results
Sample Date September 11, 2008

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	Y-S1 (3')	Y-S3 (5')
Acenaphthene	**13,000**	**170,000**	**2,700**	<0.395	<0.096
Acenaphthylene	**13,000**	**170,000**	**2,500**	**1.160**	<0.096
Anthracene	**66,000**	**190,000**	**350**	**0.832**	<0.096
Benzo(a)anthracene	**25**	**110**	**79**	**2.470**	**0.422**
Benzo(a)pyrene	**2.5**	**11**	**46**	**3.490**	**0.337**
Benzo(b)fluoranthene	**250**	**1,100**	**120**	**4.780**	**0.488**
Benzo(g,h,i)perylene	**13,000**	**170,000**	**180**	**2.460**	**0.310**
Benzo(k)fluoranthene	**250**	**1,100**	**610**	**4.200**	**0.429**
Chrysene	**2,500**	**11,000**	**230**	**3.750**	**0.511**
Dibenzo(a,h)anthracene	**2.5**	**11**	**41**	**0.701**	<0.96
bis(2-Ethylhexyl)phthalate	**1,300**	**5,700**	**130**	<0.564	<0.137
Fluoranthene	**8,800**	**110,000**	**3,200**	**5.600**	**0.889**
Fluorene	**8,800**	**110,000**	**3,000**	<0.395	<0.096
Indeno(1,2,3-cd)pyrene	**25**	**110**	**7,000**	**2.420**	**0.310**
2-Methylnaphthalene	**4,400**	**10,000**	**8,000**	<0.395	<0.096
Phenanthrene	**66,000**	**190,000**	**2,200**	**1.470**	**0.252**
Pyrene	**6,600**	**84,000**	**2,200**	**4.360**	**0.738**

All results in parts per million (ppm)
MSC = PADEP Statewide Health Medium Specific Concentration
NA = Not Analyzed

Table 7

Northwest Triangle
City of York, York County, Pennsylvania
York Rail Property

Post-Excavation Sampling Results
Sample Dates March 4 and March 16, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	York Rail S1	York Rail S2	York Rail S3	York Rail S4	York Rail S5	York Rail S6	York Rail S7	York Rail S8	York Rail S9	York Rail S10	York Rail S11	York Rail S12	York Rail X1 (9") 3-09	York Rail X2 (6") 3-09
Arsenic	**12**	**53**	**15**	6.7	11.6	9.6	**15.8**	10.5	8.4	9.7	10.9	8.6	6.4	8.8	10.6	**53.7**	**37.3**
Lead	**500**	**1,000**	**450**	22.7	29.2	229	269	305	149	123	24.3	228	130	53.4	94.5	NA	NA

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration
NA = Not Analyzed
15.8 = Result exceeds PADEP MSC

Table 8

Northwest Triangle
City of York, York County, Pennsylvania
Keystone Color Works

Post-Excavation Sample Results
Sample Dates March 10 - 11, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	KCW2-S1 (1') 3-09	KCW2-S2 (1') 3-09	KCW2-S3 (6") 3-09	KCW2-S4 (6") 3-09	KCW2-S5 (1') 3-09	KCW2-S6 (8") 3-09	KCW2-S7 (1') 3-09	KCW2-S8 (1') 3-09	KCW-X1 (1') 3-09
Lead	**500**	**1,000**	**450**	74.3	32.1	275	144	75.2	110	24.1	28.4	171

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration

Table 9

Northwest Triangle
City of York, York County, Pennsylvania
Weaver's Auto Body

West Excavation Post-Excavation Sampling Results
Sample Date March 9, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	WAB-X1 (7') 3-09	WAB-X2 (9') 3-09	WAB-X3 (7') 3-09	WAB-X4 (9') 3-09	WAB-X5 (9') 3-09	WAB-X6 (9') 3-09	WAB-X7 (7') 3-09	WAB-X8 (9') 3-09
Benzene	**41**	**210**	**240**	**0.5**	<0.0675	<0.0807	<0.0619	<0.0678	<0.0805	<0.0690	<0.0613	<0.0619

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration

Table 9 (cont.)

Northwest Triangle
City of York, York County, Pennsylvania
Weaver's Auto Body

East Excavation Post-Excavation Sampling Results
Sample Date March 9, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	WAB-S1 (7') 3-09	WAB-S2 (9') 3-09	WAB-S3 (7') 3-09	WAB-S4 (9') 3-09	WAB-S5 (7') 3-09	WAB-S6 (7') 3-09	WAB-S7 (9') 3-09	WAB-S8 (9') 3-09
Benzene	**41**	**210**	**240**	**0.5**	<0.112	<0.0520	<0.0581	<0.0579	<0.0542	<0.0541	<0.0632	<0.0738

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration

Table 9 (cont.)

Northwest Triangle
City of York, York County, Pennsylvania
Weaver's Auto Body

Underground Storage Tank Sampling Results
Sample Date March 6, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	WAB-UST1 (12')	WAB-UST2 (12')	WAB Stockpile 1	WAB Stockpile 2
Benzene	**41**	**210**	**240**	**0.5**	<0.0595	<0.0633	<0.0577	<0.0655
Ethylbenzene	**10,000**	**10,000**	**10,000**	**70**	<0.0595	<0.0633	<0.0577	<0.0655
Cumene	**7,300**	**10,000**	**10,000**	**110**	<0.0595	<0.0633	<0.0577	<0.0655
Methyl-Tert-Butyl-Ether (MTBE)	**620**	**3,200**	**3,700**	**2**	<0.0595	<0.0633	<0.0577	<0.0655
Naphthalene	**4,400**	**56,000**	**190,000**	**10**	0.358	0.127	<0.115	0.541
Toluene	**7,600**	**10,000**	**10,000**	**100**	0.167	<0.0633	0.0614	<0.0655
1,2,4-Trimethylbenzene	**110**	**320**	**360**	**1.6**	0.278	<0.0633	0.0903	0.457
1,3,5-Trimethylbenzene	**110**	**320**	**360**	**1.6**	<0.0595	<0.0633	<0.0577	0.146

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration

Table 10

Northwest Triangle
City of York, York County, Pennsylvania
B&C Fasteners

West Excavation Post-Excavation Sampling Results
Sample Dates February 27 and March 11, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	BC-S1 (3') 2-09	BC-S2 (3') 2-09	BC-S3 (3') 2-09	BC-S4 (3') 2-09	BC-S5 (3') 2-09	BC-S6 (3') 2-09	BC-S7 (3') 2-09	BC-S8 (3') 2-09	BC-S9 (3') 2-09	BC-S10 (3') 2-09	BC-S11 (3') 2-09	BC-S12 (3') 2-09	BC-X1 (2') 3-09
Arsenic	**12**	**53**	**15**	9.4	<3.3	6.0	5.9	4.7	8.9	5.7	5.8	<3.7	4.2	10.6	**17.9**	4.8
Lead	**500**	**1,000**	**450**	18.1	2.2	13.9	14.1	20.1	9.7	15.2	19.5	12.1	12.3	170	10.7	NA

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration
17.9 Result exceeds PADEP MSC
NA = Not Analyzed

Table 10 (cont.)

Northwest Triangle
City of York, York County, Pennsylvania
B&C Fasteners

North Excavation Post-Excavation Sampling Results
Sample Date March 3, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	BC2-S1 (6") 3-09	BC2-S2 (10") 3-09	BC2-S3 (6") 3-09	BC2-S4 (10") 3-09	BC2-S5 (10") 3-09	BC2-S6 (6") 3-09	BC2-S7 (6") 3-09	BC2-S8 (10") 3-09
Arsenic	**12**	**53**	**15**	**45.6**	6.0	6.6	5.5	7.7	7.1	10.8	**18.6**

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration
18.6 Result exceeds PADEP MSC

Table 10 (cont.)

Northwest Triangle
City of York, York County, Pennsylvania
B&C Fasteners

South Excavation Post-Excavation Sampling Results
Sample Date March 6, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	BC3-S1 (4') 3-09	BC3-S2 (3') 3-09	BC3-S3 (4') 3-09	BC3-S4 (2') 3-09	BC3-S5 (2') 3-09	BC3-S6 (2') 3-09	BC3-S7 (3') 3-09	BC3-S8 (3') 3-09
Arsenic	**12**	**53**	**15**	9.3	8.5	5.9	5.6	7.9	11.2	5.4	5.2

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration

Table 11

Northwest Triangle
City of York, York County, Pennsylvania
Trestle Area Property

Post-Excavation Sampling Results
Sample Date February 26, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	Trestle-S1 (8') 2-09	Trestle-S2 (6') 2-09	Trestle-S3 (8') 2-09	Trestle-S4 (8') 2-09	Trestle-S5 (9') 2-09	Trestle-S6 (9') 2-09	Trestle-S7 (9') 2-09	Trestle-S8 (9') 2-09	Trestle-S9 (4') 2-09	Trestle-S10 (9') 2-09	Trestle-S11 (9') 2-09	Trestle-S12 (9') 2-09
Arsenic	**12**	**53**	**15**	10.2	11.1	**46.1**	6.4	**17.3**	**16.5**	**13.0**	11.3	**15.8**	5.4	8.7	7.6
Benzo(a)pyrene	**2.5**	**11**	**4.6**	0.181	<0.121	1.080	0.178	1.960	0.403	0.522	0.320	<0.0554	0.404	<0.0608	0.113

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration

Table 11 (cont.)

Northwest Triangle
City of York, York County, Pennsylvania
Trestle Area Property

Post-Excavation Sampling Results
Sample Date March 2, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	Trestle-S1 (11') 3-09	Trestle-S2 (8') 3-09	Trestle-S3 (11') 3-09	Trestle-S4 (9') 3-09	Trestle-S5 (9') 3-09	Trestle-S6 (8') 3-09	Trestle-S7 (8') 3-09	Trestle-S8 (9') 3-09	Trestle-S9 (9') 3-09	Trestle-S10 (9') 3-09	Trestle-S11 (9') 3-09	Trestle-S12 (9') 3-09
Arsenic	**12**	**53**	**15**	9.0	8.1	5.7	6.6	6.3	6.7	6.8	5.8	9.8	4.4	4.5	7.3

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration

Table 11 (cont.)

Northwest Triangle
City of York, York County, Pennsylvania
Trestle Area Property - Southern Side

Post-Excavation Sampling Results
Sample Date March 17, 2009

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	Trestle-S1	Trestle-S2	Trestle-S3	Trestle-S4	Trestle-S5	Trestle-S6	Trestle-S7	Trestle-S8	Trestle-S9	Trestle-S10	Trestle-S11	Trestle-S12
Arsenic	**12**	**53**	**15**	5.6	6.0	7.2	4.6	5.7	4.8	4.5	**12.6**	5.2	4.7	5.4	7.4

All results in milligrams per kilogram (mg/kg)
MSC = PADEP Statewide Health Medium Specific Concentration

Table 12

Northwest Triangle Initiative
City of York, County of York, Pennsylvania

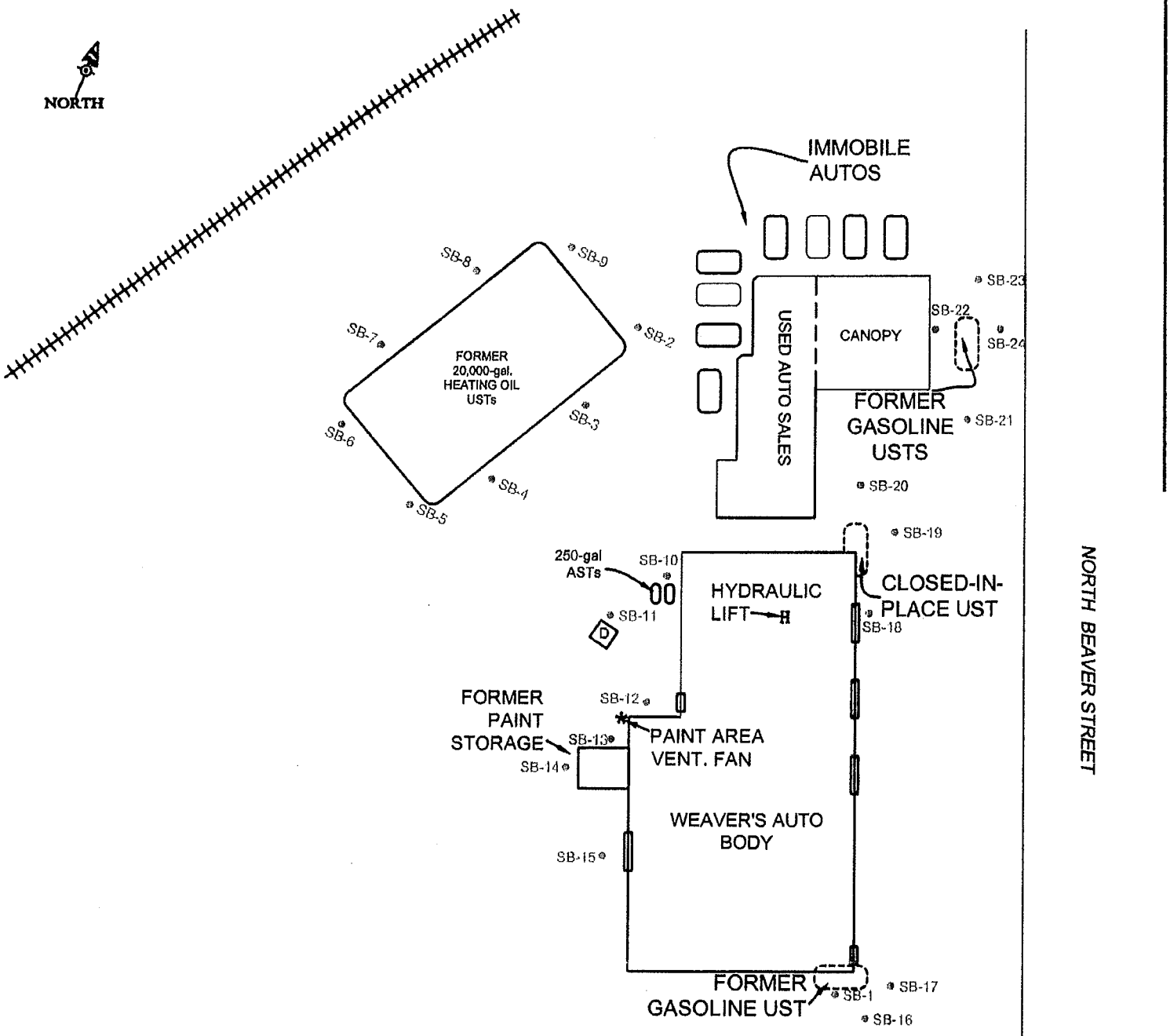
Groundwater Analytical Results

Parameter	PADEP Residential Used Aquifer MSC	PADEP Residential Non-Use Aquifer MSC	MW-1S			MW-2S			Trip Blank	
			1/15/2008	2/21/2008	9/10/2008	1/15/2008	2/21/2008	7/27/2009	2/21/2008	7/27/2009
VOLATILES										
Acetone	**3,700**	**37,000**	8.3J	7.0J	NA	<10.0	7.0J	NA	<10.0	<10.0
2-Butanone	**2,800**	**280,000**	<10.0	<10.0	NA	<10.0	<10.0	NA	<10.0	<10.0
Carbon Disulfide	**1,900**	**1,900**	1.6	0.27J	NA	<1.0	<1.0	NA	<1.0	<1.0
Chloroform	**100**	**1,000**	<1.0	0.23J	NA	<1.0	<1.0	NA	<1.0	<1.0
1,1-Dichloroethane	**27**	**270**	<1.0	<1.0	NA	<1.0	<1.0	NA	<1.0	<1.0
cis-1,2-Dichloroethene	**70**	**700**	<1.0	0.98J	NA	<1.0	<1.0	NA	<1.0	<1.0
Methylene Chloride	**5**	**500**	<1.0	1.2	NA	<1.0	1.0	NA	<1.0	<1.0
Tetrachloroethene	**5**	**50**	<1.0	0.62J	NA	<1.0	<1.0	NA	<1.0	<1.0
1,1,1-Trichloroethane	**200**	**2,000**	<1.0	<1.0	NA	<1.0	<1.0	NA	<1.0	<1.0
Trichloroethene	**5**	**50**	<1.0	0.30J	NA	<1.0	<1.0	NA	<1.0	<1.0
SEMIVOLATILES										
Acenaphthene	**2,200**	**3,800**	NA	<2.9	<2.9	3.2	1.7J	NA	NA	NA
Di-n-Butylphthalate	**-**	**-**	NA	<2.9	<2.9	0.60J	<2.8	NA	NA	NA
bis(2-Ethylhexyl)phthalate	**6**	**290**	NA	0.92J	<2.9	<2.9	<2.8	NA	NA	NA
Fluorene	**1,500**	**1,900**	NA	<1.9	<1.9	3.8	2.0	NA	NA	NA
Phenanthrene	**1,100**	**1,100**	NA	<1.4	<1.4	1.6	<1.4	NA	NA	NA
Pyrene	**130**	**130**	NA	<1.4	<1.4	<1.4	<1.4	NA	NA	NA
METALS										
Arsenic	**10**	**50,000**	<10	3J	NA	7J	7J	8.3	NA	NA
Chromium	**100**	**100,000**	47	7	NA	<5	<5	2.3J	NA	NA
Copper	**1,000**	**1,000,000**	<10	12	NA	<10	<10	<10	NA	NA
Lead	**5**	**5,000**	<2	<2	NA	**7J**	<2	<2	NA	NA
Nickel	**100**	**100,000**	3J	2J	NA	<20	<20	<20	NA	NA
Zinc	**2,000**	**2,000,000**	6J	390	NA	5J	<20	<20	NA	NA

All values in micrograms per liter (ug/L)
MSC = PADEP Statewide Health Medium Specific Concentration (25 PA Code Chapter 250)
7 Result exceeds PADEP Used Aquifer MSC
NA = Not Analyzed
J = indicates concentration estimated by laboratory

APPENDIX A

AES/GTS Results



LEGEND

SB-1 SOIL BORING LOCATION AND ID

D DUMPSTER

0 10 20 30 60

APPROX. SCALE IN FEET
(1 INCH = 30 FEET)

WEAVER'S AUTOBODY

SOIL BORING LOCATION MAP
MAY 2006

208 & 236 NORTH BEAVER STREET
YORK COUNTY, PENNSYLVANIA

Alliance
Environmental Services, Inc.
www.alliance-env.com

REVISIONS	DRAWN BY	CHECKED BY	APPROVED BY	FIGURE
	SSN	DEW	PEN	4
	DATE	PROJECT No.	CAD FILE No.	
	MAY 2006	06-126.010	06-126.01-2	

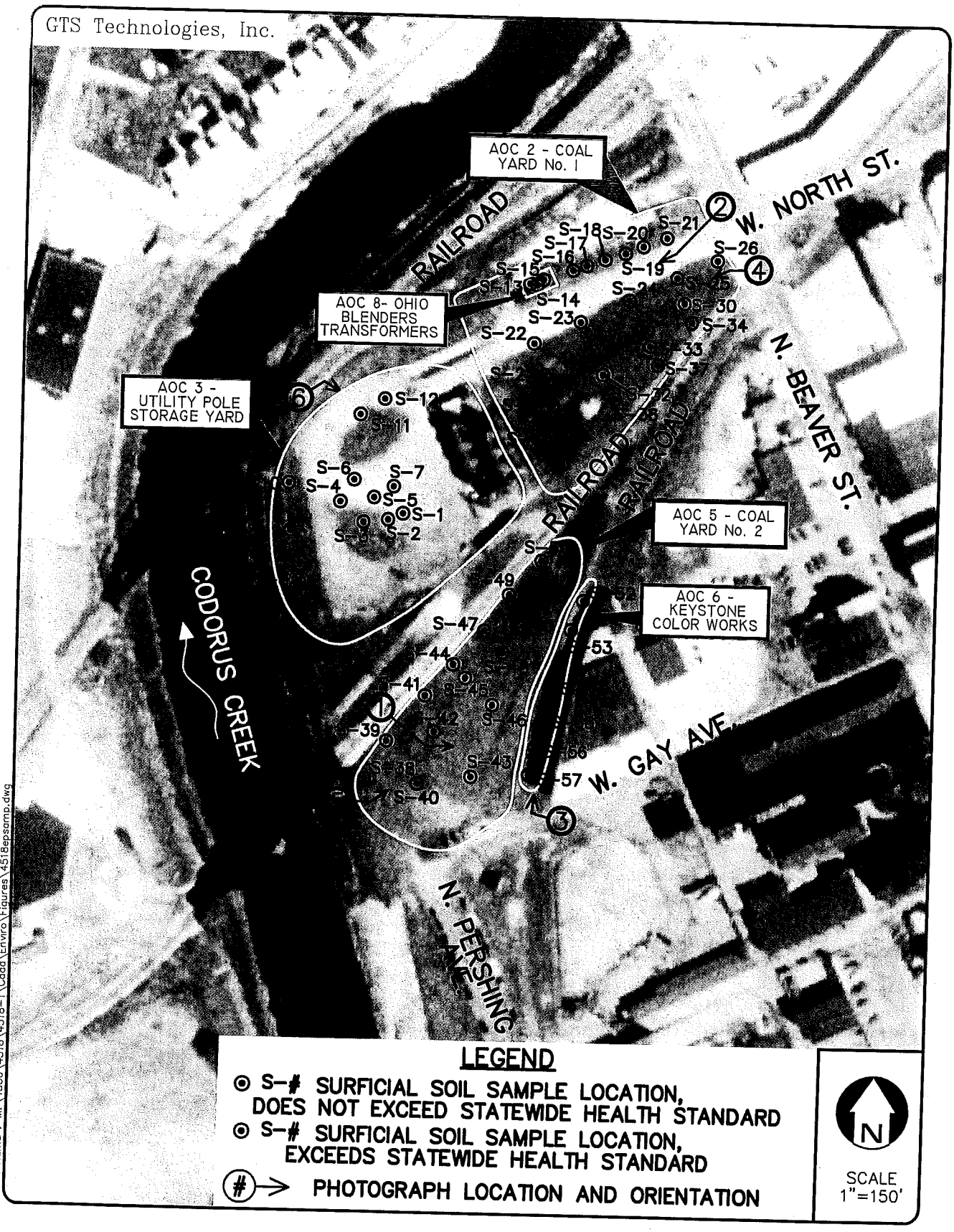
TABLE 2. DETECTED ANALYTES IN SOIL
WEAVER'S AUTO BODY
208-236 NORTH BEAVER STREET, YORK PENNSYLVANIA

Analyte	Units	Residential Screening Criteria				Sample Identification/Sample Depth (feet)/Date				
		Direct Contact Residential	Soil To Groundwater MSC		Protection of Indoor Air	SB-2	SB-5	SB-6S	SB-6D	SB-10
			100X GW MSC	Generic Value		1	12	2	10	2
						4/10/2006	4/10/2006	4/10/2006	4/10/2006	4/10/2006
Volatile Organic Compounds										
n-Butylbenzene	mg/kg	8800	150	950	NOC	ND	0.073	ND	2.679	ND
sec-Butylbenzene	mg/kg	8800	150	350	NOC	ND	0.039	ND	ND	ND
tert-Butylbenzene	mg/kg	8800	150	270	NOC	ND	ND	ND	0.307	ND
Cumene	mg/kg	7300	110	780	360	ND	0.028	ND	0.925	ND
Ethylbenzene	mg/kg	10000	70	46	5.7	0.010	ND	ND	ND	ND
Naphthalene	mg/kg	4400	10	25	64	ND	ND	ND	0.494	ND
n-Propylbenzene	mg/kg	8800	150	290	93	ND	0.030	ND	2.798	ND
1,2,3-Trichloropropane	mg/kg	0.16	4	3.2	0.094	ND	ND	ND	ND	0.006
Toluene	mg/kg	7600	100	44	76	5.85	0.028	0.011	ND	ND
Total Xylenes	mg/kg	8000	1000	990	55	0.033	ND	ND	ND	ND

NOTES/COMMENTS:

ND = Not Detected
NOC = Not of Concern
MSC = Medium Specific Concentration
Direct Contact Numeric Values for Soil as presented in Table 3A of Appendix A of Title 25 Chapter 250
Soil to Groundwater Numeric Values as presented in Table 3B of Appendix A of Title 25 Chapter 250
Results screened to the higher value of 100XGW MSC or Generic Value Soil to Ground Water MSCs per Act 2 § 6026.303
Protection of Indoor Air from Table 4 (Soil Screening Values for Protection of Indoor Air – Residential) of the Final Guidance on Vapor Intrusion into Buildings from Groundwater and Soil Under the Act 2 Statewide Health Standards dated January 24, 2004

GTS Technologies, Inc.



LEGEND

- ⊙ S-# SURFICIAL SOIL SAMPLE LOCATION, DOES NOT EXCEED STATEWIDE HEALTH STANDARD
- ⊙ S-# SURFICIAL SOIL SAMPLE LOCATION, EXCEEDS STATEWIDE HEALTH STANDARD
- (#)→ PHOTOGRAPH LOCATION AND ORIENTATION

N

SCALE 1"=150'

User Name : MLiverin/SFreistok
File Name : M:\4500\4518\4518-1\Cadd\Enviro\Figures\4518epsamp.dwg

SURFICIAL SOIL SAMPLE LOCATION MAP

KEYSTONE COLOR WORKS AND OHIO BLENDERS
CITY OF YORK
YORK COUNTY, PENNSYLVANIA

NOV. 2005

FIGURE
4

TABLE 1
SUMMARY OF SAMPLE RESULTS
SOILS UNDERLYING EXTERIOR WINDOWS

Analyte	Sample Location Sample Depth (ft.)						Statewide Health Standard for Residential Use (mg/kg)	Statewide Health Standard for Non-Residential Use (mg/kg)
	S-52 1.0	S-53 1.0	S-54 1.0	S-55 1.0	S-56 1.0	S-57 1.0		
	Result (mg/kg)							
Lead	**945**	**702**	**510**	266	107	**1,200**	450	450

Notes:

945 = One or more Statewide Health Standard exceeded for analyte.

TABLE 2
SUMMARY OF SAMPLE RESULTS
SOILS WITHIN FORMER COAL STORAGE AREAS

Analyte	Sample Location / Sample Depth (ft.)												Statewide Health Standard for Residential Use (mg/kg)	Statewide Health Standard for Non-Residential Use (mg/kg)
	S-16 1.0	S-17 1.0	S-18 1.0	S-19 0.8	S-20 1.0	S-21 0.8	S-22 0.7	S-23 0.7	S-24 0.7	S-25 0.5	S-26 0.5	S-27 0.8		
PPL Metals	Result (mg/kg)													
Antimony	4.0	BDL	4.6	3.4	BDL	BDL	BDL	BDL	**48.7**	BDL	BDL	BDL	27	27
Arsenic	**38.9**	**12.7**	**36.6**	**345**	2.9	**87.0**	9.4	8.7	10.3	**14.4**	11.1	**23.2**	12	53
Beryllium	1.4	0.57	1.3	0.56	0.54	1.4	1.3	2.0	1.3	1.3	1.1	1.2	320	320
Cadmium	5.2	1.9	3.6	1.4	0.54	4.1	2.4	3.2	2.9	2.9	2.6	2.8	38	38
Chromium	29.3	7.0	16.1	21.8	12.8	24.8	23.4	23.8	21.6	26.2	22.2	23.3	94[1]	190[1]
Copper	117.	20.4	110	74.0	26.4	81.8	22.2	21.4	50.1	35.4	35.9	29.6	8,200	36,000
Lead	**868.**	81.1	**790**	**3,450**	40.3	**2,140**	56.4	43.8	121.	220.	195.	90.1	450	450
Mercury	1.3	0.41	1.2	7.1	BDL	1.3	0.34	0.24	0.88	2.0	2.2	2.2	10	10
Nickel	39.7	10.6	25.1	12.9	16.5	31.2	18.5	20.5	18.8	21.1	20.0	26.2	650	650
Selenium	BDL	4.4	12.2	9.3	BDL	BDL	6.4	BDL	10.8	BDL	BDL	7.4	26	26
Silver	BDL	BDL	BDL	3.7	BDL	BDL	BDL	8.5	BDL	BDL	BDL	BDL	84	84
Thallium	5.2	BDL	4.0	6.8	BDL	4.8	BDL	5.0	BDL	BDL	BDL	2.9	14	14
Zinc	392.	29.2	101	324	28.2	223	75.9	69.0	141.	119.	155.	179	12,000	12,000
PPL SVOCs														
Acenaphthene	BDL	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	2,700	4,700
Acenaphthylene	0.150	BDL	NA	NA	NA	NA	NA	BDL	0.389	BDL	BDL	NA	2,500	6,900
Anthracene	0.0997	BDL	NA	NA	NA	NA	NA	BDL	0.178	BDL	BDL	NA	350	350
Benzo(a)anthracene	0.533	BDL	NA	NA	NA	NA	NA	BDL	2.810	0.143	0.107	NA	25	110
Benzo(a)pyrene	0.379	BDL	NA	NA	NA	NA	NA	BDL	1.550	0.106	0.0900	NA	2.5	11
Benzo(b)fluoranthene	0.523	BDL	NA	NA	NA	NA	NA	BDL	2.310	0.172	0.152	NA	25	110
Benzo(g,h,i)perylene	0.563	BDL	NA	NA	NA	NA	NA	BDL	1.440	BDL	BDL	NA	180	180
Benzo(k)fluoranthene	0.391	BDL	NA	NA	NA	NA	NA	BDL	2.100	0.133	0.130	NA	250	610
Bis(2-Ethylhexyl)phthalate	BDL	BDL	NA	NA	NA	NA	NA	BDL	0.195	BDL	BDL	NA	130	130
Carbazole	0.101	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	21	83
Chrysene	1.010	BDL	NA	NA	NA	NA	NA	BDL	4.450	0.314	2.77	NA	230	230
Dibenzo(a,h)anthracene	BDL	BDL	NA	NA	NA	NA	NA	BDL	0.164	BDL	BDL	NA	2.5	11
Dibenzofuran	BDL	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	*	*
Diphenylhydrazine, 1,2-	BDL	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	0.15	0.58
Fluoranthene	1.130	BDL	NA	NA	NA	NA	NA	BDL	7.830	0.376	0.315	NA	3,200	3,200
Fluorene	BDL	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	3,000	3,800
Indeno(1,2,3-cd)pyrene	0.427	BDL	NA	NA	NA	NA	NA	BDL	1.440	0.100	0.965	NA	25	110
Methylnaphthalene, 2-	BDL	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	2,900	8,000
Naphthalene	BDL	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	25	25
Phenanthrene	0.629	BDL	NA	NA	NA	NA	NA	BDL	0.457	0.172	0.156	NA	10,000	10,000
Pyrene	1.080	BDL	NA	NA	NA	NA	NA	BDL	6.760	3.330	0.268	NA	2,200	2,200

Notes: BDL = The reported result is Below the laboratory Detection Limit. NA = Not Analyzed. * = No Statewide Health Standard has been established for this analyte.
1 = No Statewide Health Standard values for total chromium have been established. This value for chromium VI has been used, as it is more restrictive than the value for chromium III.
38.9 = One or more Statewide Health Standard exceeded for analyte.

TABLE 2 (continued)
SUMMARY OF SAMPLE RESULTS
SOILS WITHIN FORMER COAL STORAGE AREAS

Analyte	Sample Location / Sample Depth (ft.)												Statewide Health Standard for Residential Use (mg/kg)	Statewide Health Standard for Non-Residential Use (mg/kg)
	S-28 0.8	S-29 0.7	S-30 0.7	S-31 0.7	S-32 0.8	S-33 0.7	S-34 0.7	S-35 0.7	S-36 0.7	S-37 0.7	S-38 0.7	S-39 0.8		
	Result (mg/kg)													
PPL Metals														
Antimony	17.9	BDL	BDL	BDL	BDL	3.2	BDL	BDL	BDL	4.6	BDL	BDL	27	27
Arsenic	**59.8**	**15.6**	5.6	**22.9**	6.4	**20.7**	**31.5**	9.7	**13.2**	**31.2**	5.2	10.8	12	53
Beryllium	1.1	1.5	0.88	4.9	0.54	1.3	0.88	0.58	0.79	0.84	1.2	1.4	320	320
Cadmium	3.8	3.4	2.0	5.5	1.4	3.1	2.1	2.3	2.0	1.9	3.1	3.2	38	38
Chromium	54.5	73.5	15.6	35.6	9.9	29.9	33.5	8.9	12.4	28.9	19.4	39.2	94[1]	190[1]
Copper	122.	32.2	24.1	54.6	19.3	41.2	23.9	18.5	29.3	43.5	44.4	41.2	8,200	36,000
Lead	218.	90.3	67.8	147.	65.2	126.	51.8	61.3	89.0	112.	97.5	127.	450	450
Mercury	0.95	0.78	0.73	2.3	0.77	1.1	1.2	0.19	1.2	0.79	1.3	1.4	10	10
Nickel	108.	45.2	11.0	44.3	13.1	38.7	20.0	8.9	14.9	27.6	25.3	50.1	650	650
Selenium	13.8	12.6	BDL	BDL	BDL	10.4	8.3	BDL	6.1	BDL	11.3	BDL	26	26
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	84	84
Thallium	3.5	BDL	BDL	BDL	BDL	3.0	3.6	BDL	BDL	BDL	BDL	3.3	14	14
Zinc	234.	112.	108.	349.	101.	204.	62.5	71.1	116.	97.4	135.	142.	12,000	12,000
PPL SVOCs														
Acenaphthene	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	2,700	4,700
Acenaphthylene	0.218	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	2,500	6,900
Anthracene	0.330	NA	NA	BDL	BDL	0.0861	BDL	BDL	BDL	BDL	BDL	NA	350	350
Benzo(a)anthracene	0.365	NA	NA	0.184	BDL	0.435	0.0910	BDL	BDL	0.490	0.232	NA	25	110
Benzo(a)pyrene	0.324	NA	NA	0.154	BDL	0.333	0.0760	BDL	BDL	0.348	0.161	NA	2.5	11
Benzo(b)fluoranthene	0.760	NA	NA	0.174	BDL	0.405	0.100	BDL	0.0730	0.500	0.185	NA	25	110
Benzo(g,h,i)perylene	0.686	NA	NA	0.0980	BDL	0.353	BDL	BDL	BDL	0.342	0.143	NA	180	180
Benzo(k)fluoranthene	0.527	NA	NA	0.176	BDL	0.340	0.0920	BDL	BDL	0.424	0.189	NA	250	610
Bis(2-Ethylhexyl)phthalate	BDL	NA	NA	BDL	0.425	BDL	BDL	BDL	BDL	BDL	0.306	NA	130	130
Carbazole	0.0950	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	21	83
Chrysene	1.540	NA	NA	0.267	0.0922	0.702	0.140	0.103	0.114	1.020	0.436	NA	230	230
Dibenzo(a,h)anthracene	0.129	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	2.5	11
Dibenzofuran	0.404	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	*	*
Diphenylhydrazine, 1,2-	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	**0.184**	BDL	NA	0.15	0.58
Fluoranthene	1.540	NA	NA	0.450	0.133	0.989	0.176	0.111	0.146	1.280	0.645	NA	3,200	3,200
Fluorene	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	3,000	3,800
Indeno(1,2,3-cd)pyrene	BDL	NA	NA	0.103	BDL	0.339	BDL	BDL	BDL	0.347	0.144	NA	25	110
Methylnaphthalene, 2-	0.448	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	0.116	BDL	NA	2,900	8,000
Naphthalene	0.340	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	25	25
Phenanthrene	1.330	NA	NA	0.333	BDL	0.353	0.0900	BDL	0.0960	0.632	0.338	NA	10,000	10,000
Pyrene	1.120	NA	NA	0.370	0.114	0.882	0.147	0.123	0.131	1.120	0.581	NA	2,200	2,200

Notes: BDL = The reported result is Below the laboratory Detection Limit. NA = Not Analyzed. * = No Statewide Health Standard has been established for this analyte.
1 = No Medium Specific Concentration value for total chromium has been established. This value for chromium VI will been used, as it is more restrictive than the value for chromium III.
59.8 = One or more Statewide Health Standard exceeded for analyte.

TABLE 2 (continued)
SUMMARY OF SAMPLE RESULTS
SOILS WITHIN FORMER COAL STORAGE AREAS

Analyte	Sample Location / Sample Depth (ft.)												Statewide Health Standard for Residential Use (mg/kg)	Statewide Health Standard for Non-Residential Use (mg/kg)
	S-40 0.7	S-41 0.7	S-42 0.7	S-43 1.0	S-44 0.7	S-45 1.0	S-46 0.7	S-47 0.7	S-48 0.8	S-49 0.8	S-50 1.0	S-51 1.0		
	Result (mg/kg)													
PPL Metals														
Antimony	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	27	27
Arsenic	**15.2**	10.7	7.2	6.5	6.4	7.3	7.2	**12.0**	**15.0**	7.7	**12.0**	8.6	12	53
Beryllium	1.2	1.4	1.5	1.1	1.0	1.2	1.3	2.3	1.3	1.1	1.3	1.4	320	320
Cadmium	2.8	3.1	3.4	2.7	2.1	2.7	2.7	3.7	3.2	2.4	3.3	3.0	38	38
Chromium	31.9	29.8	**177.**	22.2	21.5	23.7	30.1	29.3	22.6	18.2	26.4	26.9	94[1]	190[1]
Copper	37.3	40.4	41.9	59.9	47.4	23.9	28.9	43.1	52.3	37.8	35.0	38.7	8,200	36,000
Lead	98.1	65.9	86.4	217.	73.7	47.6	49.0	88.4	61.4	89.0	98.5	66.1	450	450
Mercury	0.89	1.2	0.76	2.5	0.86	0.50	0.45	0.66	0.94	0.36	0.91	0.86	10	10
Nickel	45.5	26.5	19.7	19.1	17.9	16.1	19.0	21.8	28.3	15.8	21.5	20.9	650	650
Selenium	10.4	9.3	BDL	9.1	BDL	8.0	BDL	BDL	BDL	BDL	BDL	BDL	26	26
Silver	BDL	BDL	5.5	BDL	BDL	1.6	BDL	10.5	9.6	BDL	9.7	BDL	84	84
Thallium	BDL	BDL	BDL	3.1	BDL	BDL	BDL	4.5	4.5	BDL	BDL	3.6	14	14
Zinc	121.	75.9	94.3	151.	60.8	50.9	61.3	126.	65.2	91.5	88.9	95.2	12,000	12,000
PPL SVOCs														
Acenaphthene	BDL	BDL	NA	BDL	BDL	0.723	BDL	NA	BDL	BDL	BDL	BDL	2,700	4,700
Acenaphthylene	BDL	BDL	NA	BDL	BDL	BDL	0.290	NA	BDL	BDL	BDL	BDL	2,500	6,900
Anthracene	BDL	BDL	NA	0.106	0.293	1.180	0.304	NA	0.0758	0.147	BDL	BDL	350	350
Benzo(a)anthracene	0.175	0.262	NA	0.441	0.723	1.550	1.580	NA	0.183	0.533	0.143	0.186	25	110
Benzo(a)pyrene	0.146	0.258	NA	0.307	0.557	0.999	0.820	NA	0.160	0.538	0.128	0.132	2.5	11
Benzo(b)fluoranthene	0.172	0.272	NA	0.337	0.455	0.708	1.040	NA	0.181	0.456	0.169	0.127	25	110
Benzo(g,h,i)perylene	0.169	0.165	NA	0.246	0.520	0.710	0.413	NA	0.230	0.569	0.185	0.0982	180	180
Benzo(k)fluoranthene	0.165	0.242	NA	0.264	0.432	0.793	0.867	NA	0.194	0.428	0.133	0.132	250	610
Bis(2-Ethylhexyl)phthalate	1.690	BDL	NA	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	130	130
Carbazole	BDL	BDL	NA	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	21	83
Chrysene	0.371	0.354	NA	0.758	1.470	2.900	1.840	NA	0.407	1.210	0.370	0.309	230	230
Dibenzo(a,h)anthracene	BDL	BDL	NA	BDL	BDL	0.0850	BDL	NA	BDL	BDL	BDL	BDL	2.5	11
Dibenzofuran	BDL	BDL	NA	BDL	BDL	0.0916	BDL	NA	BDL	BDL	BDL	BDL	*	*
Diphenylhydrazine, 1,2-	BDL	BDL	NA	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	0.15	0.58
Fluoranthene	0.455	0.443	NA	1.210	1.270	2.530	2.560	NA	0.500	0.944	0.500	0.322	3,200	3,200
Fluorene	BDL	BDL	NA	BDL	BDL	0.788	BDL	NA	BDL	BDL	BDL	BDL	3,000	3,800
Indeno(1,2,3-cd)pyrene	0.164	0.154	NA	0.214	0.457	0.634	0.461	NA	0.193	0.498	0.159	0.0894	25	110
Methylnaphthalene, 2-	BDL	BDL	NA	BDL	BDL	0.370	BDL	NA	BDL	BDL	BDL	BDL	2,900	8,000
Naphthalene	BDL	BDL	NA	BDL	BDL	0.0983	BDL	NA	BDL	BDL	BDL	BDL	25	25
Phenanthrene	0.273	0.226	NA	1.140	0.887	3.380	0.497	NA	0.370	0.422	0.384	0.376	10,000	10,000
Pyrene	0.438	0.518	NA	1.250	1.920	3.790	2.070	NA	0.454	1.420	0.458	0.121	2,200	2,200

Notes: BDL = The reported result is Below the laboratory Detection Limit. NA = Not Analyzed. * = No Statewide Health Standard has been established for this analyte.
1 = No Statewide Health Standard values for total chromium have been established. This value for chromium VI has been used, as it is more restrictive than the value for chromium III.
15.2 = One or more Statewide Health Standard exceeded for analyte.

TABLE 3
SUMMARY OF SAMPLE RESULTS
SOILS WITHIN FORMER UTILITY POLE STORAGE AREA

Analyte	Sample Location / Sample Depth (ft.)													
	S-1 0.7	S-2 0.7	S-3 0.7	S-4 0.8	S-5 0.8	S-6 0.8	S- 7 0.8	S-8 1.0	S-9 1.0	S-10 1.0	S-11 0.7	S-12 1.0	Statewide Health Standard for Residential Use (mg/kg)	Statewide Health Standard for Non-Residential Use (mg/kg)
	Result (mg/kg)													
Acenaphthylene	BDL	0.218	0.090	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2,500	6,900
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.088	BDL	BDL	BDL	BDL	350	350
Benzo(a)anthracene	0.325	0.363	0.110	BDL	0.179	0.221	BDL	0.367	0.151	BDL	BDL	BDL	25	110
Benzo(a)pyrene	0.231	0.324	0.206	BDL	0.171	0.180	BDL	0.301	0.161	BDL	BDL	BDL	2.5	11
Benzo(b)fluoranthene	0.419	0.582	0.410	BDL	0.246	0.295	BDL	0.590	0.233	0.081	BDL	BDL	25	110
Benzo(g,h,i)perylene	0.134	0.268	0.361	BDL	0.099	0.141	BDL	0.278	0.229	0.088	BDL	BDL	180	180
Benzo(k)fluoranthene	0.325	0.439	0.314	BDL	0.212	0.214	BDL	0.406	0.177	0.085	BDL	BDL	250	610
Chrysene	0.625	0.767	0.731	0.113	0.295	0.411	BDL	0.902	0.464	0.216	0.159	BDL	230	230
Fluoranthene	0.699	0.561	0.402	0.119	0.287	0.366	BDL	0.866	0.515	0.273	0.111	BDL	3,200	3,200
Indeno(1,2,3-cd)pyrene	0.149	0.291	0.347	BDL	0.112	0.140	BDL	0.275	0.209	0.087	BDL	BDL	25	110
Phenanthrene	0.186	0.225	0.171	BDL	0.081	0.199	BDL	0.361	0.288	0.227	0.075	BDL	10,000	10,000
Pyrene	0.708	0.526	0.307	0.107	0.256	0.318	BDL	0.841	0.446	0.240	0.111	BDL	2,200	2,200

Notes: BDL = The reported result is Below the laboratory Detection Limit.

TABLE 4
SUMMARY OF SAMPLE RESULTS
SOILS UNDERLYING TRANSFORMERS

Analyte	Sample Location Sample Depth (ft.)			Statewide Health Standard for Residential Use (mg/kg)	Statewide Health Standard for Non-Residential Use (mg/kg)
	S-13 1.0	S-14 0.8	S-15 1.0		
	Result mg/kg				
Aroclor 1260	BDL	0.12	0.16	30	130

Notes: BDL = Below Detection Limit.

TABLE 5
SUMMARY OF SAMPLE RESULTS
SOILS WITHIN AREA OF HISTORIC GASOLINE USTS

Analyte	Sample Location Sample Depth (ft.) B-1 6-8	B-2 10-12	B-3 12-13	B-4 16-18	B-5 13-15	B-6 14-15	B-7 12-14	B-8 13-14.7	Statewide Health Standard for Residential Use (mg/kg)	Statewide Health Standard for Non-Residential Use (mg/kg)
	Result mg/kg									
Benzene	0.0813	BDL	BDL	BDL	BDL	BDL	0.0078	BDL	0.5	0.5
Cumene (Synonym: Isopropylbenzene)	BDL	BDL	BDL	BDL	0.224	BDL	BDL	0.141	780	1,600
Lead	**541**	50.7	23.4	16.2	25.9	21.1	46.8	27.7	450	450
Naphthalene	0.587	0.092	BDL	BDL	BDL	BDL	BDL	BDL	25	25
Toluene	0.133	BDL	BDL	BDL	BDL	BDL	0.0017	BDL	100	100
Xylenes, Total	252.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,000	1,000

Notes: BDL = Below Detection Limit.
450 = One or more Statewide Health Standard exceeded for analyte

APPENDIX B

Delineation Laboratory Analytical Results

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9693983**

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214

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Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis. Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan.

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

Qualifier Flags - These flags may follow individual results for a specific analyte
- U - Indicates that the analyte was not detected
- J - Indicates an estimated value between the MDL and PQL

Note: This cover letter and the attached Chain-of-Custody document is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager

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August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983001**
Received: 07/17/07 16:30
Discard: 08/15/07
Page: 2 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	23.4	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Benzene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Bromomethane	ND	ug/kg	3.8	8260/5035	07/19/07 02:25	07/17/07	ECR	B
2-Butanone	ND	ug/kg	9.4	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	9.4	8260/5035	07/19/07 02:25	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.4	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Styrene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Toluene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	5.6	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	3.8	8260/5035	07/19/07 02:25	07/17/07	ECR	B

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Page: 4 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Acenaphthylene	315	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Anthracene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(a)anthracene	528	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(a)pyrene	893	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(b)fluoranthene	766	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(g,h,i)perylene	609	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(k)fluoranthene	806	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Bromophenyl-phenylether	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Butylbenzylphthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Carbazole	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Chloro-3-methylphenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Chloroaniline	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Chloronaphthalene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Chlorophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Chlorophenyl-phenylether	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Chrysene	647	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
o-Cresol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Di-n-Butylphthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Di-n-Octylphthalate	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Dibenzo(a,h)anthracene	190	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Dibenzofuran	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
1,2-Dichlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
1,3-Dichlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
1,4-Dichlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
3,3-Dichlorobenzidine	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4-Dichlorophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Diethylphthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4-Dimethylphenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Dimethylphthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4-Dinitrophenol	ND	ug/kg	1100	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4-Dinitrotoluene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,6-Dinitrotoluene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Fluoranthene	709	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Fluorene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983001**
Received: 07/17/07 16:30
Discard: 08/15/07
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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Hexachlorobutadiene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Hexachlorocyclopentadiene	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Hexachloroethane	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Indeno(1,2,3-cd)pyrene	668	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Isophorone	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Methylnaphthalene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Naphthalene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Nitroaniline	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
3-Nitroaniline	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Nitroaniline	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Nitrobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Nitrophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Nitrophenol	ND	ug/kg	1100	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
N-Nitrosodiphenylamine	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Pentachlorophenol	ND	ug/kg	1100	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Phenanthrene	173	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Phenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2

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PO#: 07214
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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	810	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
1,2,4-Trichlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4,5-Trichlorophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4,6-Trichlorophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	2.9	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	97.1	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	24	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Barium, Total	12	mg/kg	9	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Cadmium, Total	ND	mg/kg	4.7	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Chromium, Total	ND	mg/kg	9.4	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Lead, Total	55	mg/kg	9	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 20:52	07/27/07	AGM	D3
Selenium, Total [1]	ND	mg/kg	47	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Silver, Total	ND	mg/kg	4.7	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2150	ug/kg	65.0%	(24 - 130)
1,2-Dichloroethane-d4	23.7	ug/kg	87.0%	(56 - 124)
Dibromofluoromethane	23.6	ug/kg	86.0%	(62 - 123)
Toluene-d8	25	ug/kg	92.0%	(59 - 131)
Decachlorobiphenyl	.084	mg/kg	101.0%	(30 - 150)
2-Fluorobiphenyl	1080	ug/kg	65.0%	(40 - 113)
2-Fluorophenol	2000	ug/kg	60.0%	(25 - 110)
Nitrobenzene-d5	1030	ug/kg	62.0%	(36 - 113)
Phenol-d5	2180	ug/kg	66.0%	(28 - 111)
4-Bromofluorobenzene	26.3	ug/kg	96.0%	(51 - 128)

1 - The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	**Result**	**Units**	**Recovery**	**Limits**
Tetrachloro-m-xylene	.092	mg/kg	111.0%	(30 - 136)
Terphenyl-d14	1120	ug/kg	68.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**
Date Collected: 07/17/07 14:15
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	33.0	ug/kg	20.5	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Benzene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Bromoform	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Bromomethane	ND	ug/kg	3.3	8260/5035	07/19/07 02:56	07/17/07	ECR	B
2-Butanone	12.5	ug/kg	8.2	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chloroform	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.3	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B

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Date Collected: 07/17/07 14:15
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	8.2	8260/5035	07/19/07 02:56	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	8.2	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Styrene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Toluene	15.4	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	4.9	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
o-Xylene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	3.3	8260/5035	07/19/07 02:56	07/17/07	ECR	B

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Date Collected: 07/17/07 14:15
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Acenaphthylene	71	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Anthracene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(a)anthracene	142	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(a)pyrene	236	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(b)fluoranthene	241	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(g,h,i)perylene	77	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(k)fluoranthene	285	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Bromophenyl-phenylether	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Butylbenzylphthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Carbazole	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Chloro-3-methylphenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Chloroaniline	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Chloronaphthalene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Chlorophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Chlorophenyl-phenylether	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Chrysene	210	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
o-Cresol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Di-n-Butylphthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Di-n-Octylphthalate	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Dibenzo(a,h)anthracene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Dibenzofuran	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
1,2-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
1,3-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
1,4-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
3,3-Dichlorobenzidine	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4-Dichlorophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Diethylphthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4-Dimethylphenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Dimethylphthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4-Dinitrophenol	ND	ug/kg	545	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4-Dinitrotoluene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,6-Dinitrotoluene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Fluoranthene	253	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Fluorene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983002**
Received: 07/17/07 16:30
Discard: 08/15/07
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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**
Matrix: Solid
Date Collected: 07/17/07 14:15
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Hexachlorobutadiene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Hexachlorocyclopentadiene	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Hexachloroethane	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Indeno(1,2,3-cd)pyrene	108	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Isophorone	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Methylnaphthalene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Naphthalene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Nitroaniline	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
3-Nitroaniline	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Nitroaniline	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Nitrobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Nitrophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Nitrophenol	ND	ug/kg	545	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
N-Nitrosodiphenylamine	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Pentachlorophenol	ND	ug/kg	545	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Phenanthrene	85	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Phenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	254	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
1,2,4-Trichlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4,5-Trichlorophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4,6-Trichlorophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	3.6	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	96.4	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**
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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	26	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Barium, Total	39	mg/kg	10	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Cadmium, Total	ND	mg/kg	5.1	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Chromium, Total	ND	mg/kg	10.3	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Lead, Total	42	mg/kg	10	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 20:56	07/27/07	AGM	D5
Selenium, Total	ND	mg/kg	51	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Silver, Total	ND	mg/kg	5.1	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2020	ug/kg	62.0%	(24 - 130)
1,2-Dichloroethane-d4	20.3	ug/kg	85.0%	(56 - 124)
Dibromofluoromethane	20.3	ug/kg	86.0%	(62 - 123)
Toluene-d8	22.5	ug/kg	95.0%	(59 - 131)
Decachlorobiphenyl	.074	mg/kg	90.0%	(30 - 150)
2-Fluorobiphenyl	966	ug/kg	59.0%	(40 - 113)
2-Fluorophenol	1870	ug/kg	58.0%	(25 - 110)
Nitrobenzene-d5	984	ug/kg	61.0%	(36 - 113)
Phenol-d5	2060	ug/kg	63.0%	(28 - 111)
4-Bromofluorobenzene	25.2	ug/kg	106.0%	(51 - 128)

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**
Date Collected: 07/17/07 14:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	**Result**	**Units**	**Recovery**	**Limits**
Tetrachloro-m-xylene	.082	mg/kg	101.0%	(30 - 136)
Terphenyl-d14	997	ug/kg	61.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**
Date Collected: 07/17/07 14:30
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	29.8	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Benzene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Bromomethane	ND	ug/kg	4.8	8260/5035	07/19/07 03:27	07/17/07	ECR	B
2-Butanone	ND	ug/kg	11.9	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Carbon Disulfide	4.2	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	11.9	8260/5035	07/19/07 03:27	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	11.9	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Styrene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Toluene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	7.2	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	4.8	8260/5035	07/19/07 03:27	07/17/07	ECR	B

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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Acenaphthylene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Anthracene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(a)anthracene	114	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(a)pyrene	163	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(b)fluoranthene	246	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(g,h,i)perylene	95	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(k)fluoranthene	252	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Bromophenyl-phenylether	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Butylbenzylphthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Carbazole	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Chloro-3-methylphenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Chloroaniline	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Bis(2-Chloroethoxy)methane	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Bis(2-Chloroethyl)ether	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
bis(2-Chloroisopropyl)ether	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Chloronaphthalene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Chlorophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Chlorophenyl-phenylether	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Chrysene	196	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**
Matrix: Solid
Date Collected: 07/17/07 14:30
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
o-Cresol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Di-n-Butylphthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Di-n-Octylphthalate	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Dibenzo(a,h)anthracene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Dibenzofuran	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
1,2-Dichlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
1,3-Dichlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
1,4-Dichlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
3,3-Dichlorobenzidine	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4-Dichlorophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Diethylphthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4-Dimethylphenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Dimethylphthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4-Dinitrophenol	ND	ug/kg	583	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4-Dinitrotoluene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,6-Dinitrotoluene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
bis(2-Ethylhexyl)phthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Fluoranthene	155	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Fluorene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983003**
Received: 07/17/07 16:30
Discard: 08/15/07

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PO#: 07214
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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Hexachlorobutadiene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Hexachlorocyclopentadiene	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Hexachloroethane	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Indeno(1,2,3-cd)pyrene	128	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Isophorone	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Methyl-4,6-dinitrophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Methylnaphthalene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Naphthalene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Nitroaniline	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
3-Nitroaniline	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Nitroaniline	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Nitrobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Nitrophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Nitrophenol	ND	ug/kg	583	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
N-Nitroso-di-n-propylamine	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
N-Nitrosodiphenylamine	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Pentachlorophenol	ND	ug/kg	583	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Phenanthrene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Phenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **A-1-SS3[6]**
Matrix: Solid
Date Collected: 07/17/07 14:30
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	152	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
1,2,4-Trichlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4,5-Trichlorophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4,6-Trichlorophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
PCB'S								
Aroclor-1016	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
HERBICIDES								
2,4-D	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
2,4-DB	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
Dalapon	ND	ug/kg	48	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
Dicamba	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
Dichloroprop	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2

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Page: 24 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**
Date Collected: 07/17/07 14:30
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
HERBICIDES (continued)								
Dinoseb	ND	ug/kg	32	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
MCPA	ND	ug/kg	5300	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
MCPP	ND	ug/kg	5300	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
4-Nitrophenol	ND	ug/kg	32	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
Pentachlorophenol	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
2,4,5-T	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
2,4,5-TP	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
WET CHEMISTRY								
Moisture	8.0	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	92.0	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
METALS								
Arsenic, Total	ND	mg/kg	13	SW846 6010B	07/27/07 13:52	07/25/07	JWK	D
Barium, Total	1110	mg/kg	1	SW846 6010B	07/26/07 16:48	07/25/07	JWK	D
Cadmium, Total	1.1	mg/kg	0.5	SW846 6010B	07/26/07 16:48	07/25/07	JWK	D
Chromium, Total	18.4	mg/kg	1.0	SW846 6010B	07/26/07 16:48	07/25/07	JWK	D
Lead, Total	ND	mg/kg	1	SW846 6010B	07/26/07 16:48	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.20	SW846 7471B	07/29/07 21:11	07/27/07	AGM	D4
Selenium, Total	ND	mg/kg	26	SW846 6010B	07/27/07 13:52	07/25/07	JWK	D

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Matrix: Solid
Date Collected: 07/17/07 14:30
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS (continued)								
Silver, Total	ND	mg/kg	2.6	SW846 6010B	07/27/07 13:52	07/25/07	JWK	D

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	1590	ug/kg	48.0%	(24 - 130)
1,2-Dichloroethane-d4	28.8	ug/kg	88.0%	(56 - 124)
Dibromofluoromethane	29.1	ug/kg	88.0%	(62 - 123)
2,4-Dichlorophenylacetic acid	133	ug/kg	81.0%	(52 - 148)
Toluene-d8	30.2	ug/kg	92.0%	(59 - 131)
Decachlorobiphenyl	.05	mg/kg	60.0%	(30 - 150)
2-Fluorobiphenyl	778	ug/kg	47.0%	(40 - 113)
2-Fluorophenol	1520	ug/kg	46.0%	(25 - 110)
Nitrobenzene-d5	775	ug/kg	47.0%	(36 - 113)
Phenol-d5	1710	ug/kg	52.0%	(28 - 111)
4-Bromofluorobenzene	27.6	ug/kg	84.0%	(51 - 128)
Tetrachloro-m-xylene	.057	mg/kg	69.0%	(30 - 136)
Terphenyl-d14	887	ug/kg	54.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Lab ID #: **9693983004**
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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**
Date Collected: 07/17/07 14:40

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	20.6	ug/kg	20.5	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Benzene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Bromoform	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Bromomethane	ND	ug/kg	3.3	8260/5035	07/19/07 03:58	07/17/07	ECR	B
2-Butanone	ND	ug/kg	8.2	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chloroform	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.3	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	8.2	8260/5035	07/19/07 03:58	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	8.2	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Styrene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Toluene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	4.9	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
o-Xylene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	3.3	8260/5035	07/19/07 03:58	07/17/07	ECR	B

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Acenaphthylene	1280	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Anthracene	524	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(a)anthracene	2830	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(a)pyrene	2930	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(b)fluoranthene	3110	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(g,h,i)perylene	1960	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(k)fluoranthene	3460	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Bromophenyl-phenylether	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Butylbenzylphthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Carbazole	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Chloro-3-methylphenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Chloroaniline	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Chloronaphthalene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Chlorophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Chlorophenyl-phenylether	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Chrysene	2940	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983004**
Received: 07/17/07 16:30
Discard: 08/15/07
Page: 29 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**
Date Collected: 07/17/07 14:40
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
o-Cresol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Di-n-Butylphthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Di-n-Octylphthalate	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Dibenzo(a,h)anthracene	651	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Dibenzofuran	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
1,2-Dichlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
1,3-Dichlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
1,4-Dichlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
3,3-Dichlorobenzidine	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4-Dichlorophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Diethylphthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4-Dimethylphenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Dimethylphthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4-Dinitrophenol	ND	ug/kg	2260	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4-Dinitrotoluene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,6-Dinitrotoluene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Fluoranthene	4240	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Fluorene	ND	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**
Date Collected: 07/17/07 14:40
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Hexachlorobutadiene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Hexachlorocyclopentadiene	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Hexachloroethane	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Indeno(1,2,3-cd)pyrene	2300	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Isophorone	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Methylnaphthalene	ND	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Naphthalene	ND	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Nitroaniline	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
3-Nitroaniline	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Nitroaniline	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Nitrobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Nitrophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Nitrophenol	ND	ug/kg	2260	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
N-Nitrosodiphenylamine	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Pentachlorophenol	ND	ug/kg	2260	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Phenanthrene	371	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Phenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	4130	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
1,2,4-Trichlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4,5-Trichlorophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4,6-Trichlorophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	5.4	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	94.6	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D

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Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	11	mg/kg	3	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Barium, Total	543	mg/kg	1	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Cadmium, Total	4.4	mg/kg	0.5	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Chromium, Total	821	mg/kg	1.0	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Lead, Total	122	mg/kg	1	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 21:22	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	51	SW846 6010B	07/27/07 15:30	07/25/07	JWK	D
Silver, Total	ND	mg/kg	5.1	SW846 6010B	07/27/07 15:30	07/25/07	JWK	D

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2060	ug/kg	62.0%	(24 - 130)
1,2-Dichloroethane-d4	20.2	ug/kg	87.0%	(56 - 124)
Dibromofluoromethane	20.6	ug/kg	89.0%	(62 - 123)
Toluene-d8	21.3	ug/kg	91.0%	(59 - 131)
Decachlorobiphenyl	.045	mg/kg	55.0%	(30 - 150)
2-Fluorobiphenyl	1060	ug/kg	64.0%	(40 - 113)
2-Fluorophenol	1830	ug/kg	56.0%	(25 - 110)
Nitrobenzene-d5	941	ug/kg	57.0%	(36 - 113)
Phenol-d5	2080	ug/kg	63.0%	(28 - 111)
4-Bromofluorobenzene	20.4	ug/kg	88.0%	(51 - 128)

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Page: 33 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**
Date Collected: 07/17/07 14:40

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	**Result**	**Units**	**Recovery**	**Limits**
Tetrachloro-m-xylene	.053	mg/kg	64.0%	(30 - 136)
Terphenyl-d14	1210	ug/kg	73.0%	(35 - 135)

Comments:

Several compounds were recovered below quality control criteria in the 8260 matrix spike of this sample.
The LCS had acceptable recoveries, satisfying method criteria.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Page: 34 Of 76
PO#: 07214
COC Number:

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **A-2-SS2[6]**
Matrix: Solid
Date Collected: 07/17/07 15:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	253	ug/kg	30.7	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Benzene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Bromomethane	ND	ug/kg	4.9	8260/5035	07/19/07 04:28	07/17/07	ECR	B
2-Butanone	ND	ug/kg	12.3	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **A-2-SS2[6]**
Matrix: Solid
Date Collected: 07/17/07 15:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	12.3	8260/5035	07/19/07 04:28	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	12.3	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Styrene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Toluene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	7.4	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	4.9	8260/5035	07/19/07 04:28	07/17/07	ECR	B

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**
Date Collected: 07/17/07 15:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Acenaphthylene	378	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Anthracene	221	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(a)anthracene	554	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(a)pyrene	787	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(b)fluoranthene	1130	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(g,h,i)perylene	593	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(k)fluoranthene	829	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Bromophenyl-phenylether	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Butylbenzylphthalate	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Carbazole	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Chloro-3-methylphenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Chloroaniline	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Bis(2-Chloroethoxy)methane	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Bis(2-Chloroethyl)ether	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
bis(2-Chloroisopropyl)ether	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Chloronaphthalene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Chlorophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Chlorophenyl-phenylether	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Chrysene	876	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983005**
Received: 07/17/07 16:30
Discard: 08/15/07
Page: 37 Of 76
PO#: 07214

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **A-2-SS2[6]**
Matrix: Solid
Date Collected: 07/17/07 15:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
o-Cresol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Di-n-Butylphthalate	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Di-n-Octylphthalate	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Dibenzo(a,h)anthracene	240	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Dibenzofuran	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
1,2-Dichlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
1,3-Dichlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
1,4-Dichlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
3,3-Dichlorobenzidine	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4-Dichlorophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Diethylphthalate	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4-Dimethylphenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Dimethylphthalate	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4-Dinitrophenol	ND	ug/kg	1160	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4-Dinitrotoluene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,6-Dinitrotoluene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
bis(2-Ethylhexyl)phthalate	639	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Fluoranthene	901	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Fluorene	ND	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5

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Page: 38 Of 76
PO#: 07214

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **A-2-SS2[6]**
Matrix: Solid
Date Collected: 07/17/07 15:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Hexachlorobutadiene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Hexachlorocyclopentadiene	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Hexachloroethane	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Indeno(1,2,3-cd)pyrene	651	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Isophorone	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Methyl-4,6-dinitrophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Methylnaphthalene	179	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Naphthalene	ND	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Nitroaniline	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
3-Nitroaniline	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Nitroaniline	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Nitrobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Nitrophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Nitrophenol	ND	ug/kg	1160	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
N-Nitroso-di-n-propylamine	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
N-Nitrosodiphenylamine	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Pentachlorophenol	ND	ug/kg	1160	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Phenanthrene	452	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Phenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**
Matrix: Solid
Date Collected: 07/17/07 15:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	826	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
1,2,4-Trichlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4,5-Trichlorophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4,6-Trichlorophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
PCB'S								
Aroclor-1016	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1260	0.086	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
HERBICIDES								
2,4-D	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
2,4-DB	30	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
Dalapon [1]	ND	ug/kg	49	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2

1 - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983005**
Received: 07/17/07 16:30
Discard: 08/15/07
Page: 40 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**
Matrix: Solid
Date Collected: 07/17/07 15:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
HERBICIDES (continued)								
Dicamba [2]	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
Dichloroprop	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
Dinoseb	ND	ug/kg	32	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
MCPA	ND	ug/kg	5400	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
MCPP	ND	ug/kg	5400	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
4-Nitrophenol	ND	ug/kg	32	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
Pentachlorophenol [3]	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
2,4,5-T [4]	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
2,4,5-TP [5]	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
WET CHEMISTRY								
Moisture	8.4	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	91.6	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D

2 - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.
3 - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.
4 - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.
5 - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983005**
Received: 07/17/07 16:30
Discard: 08/15/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**
Matrix: Solid
Date Collected: 07/17/07 15:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	47	mg/kg	2	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Barium, Total	144	mg/kg	0.9	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Cadmium, Total	2.2	mg/kg	0.5	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Chromium, Total	55.6	mg/kg	0.9	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Lead, Total	362	mg/kg	0.9	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.20	SW846 7471B	07/29/07 21:26	07/27/07	AGM	D6
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2320	ug/kg	71.0%	(24 - 130)
1,2-Dichloroethane-d4	31.6	ug/kg	94.0%	(56 - 124)
Dibromofluoromethane	31.5	ug/kg	93.0%	(62 - 123)
2,4-Dichlorophenylacetic acid	96	ug/kg	58.0%	(52 - 148)
Toluene-d8	36.2	ug/kg	107.0%	(59 - 131)
Decachlorobiphenyl	.063	mg/kg	76.0%	(30 - 150)
2-Fluorobiphenyl	1210	ug/kg	74.0%	(40 - 113)
2-Fluorophenol	1940	ug/kg	59.0%	(25 - 110)
Nitrobenzene-d5	1100	ug/kg	67.0%	(36 - 113)
Phenol-d5	2240	ug/kg	68.0%	(28 - 111)

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**
Date Collected: 07/17/07 15:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	**Result**	**Units**	**Recovery**	**Limits**
4-Bromofluorobenzene	39.7	ug/kg	118.0%	(51 - 128)
Tetrachloro-m-xylene	.068	mg/kg	82.0%	(30 - 136)
Terphenyl-d14	1220	ug/kg	74.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Lab ID #: **9693983006**
Received: 07/17/07 16:30
Discard: 08/15/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Date Collected: 07/17/07 15:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	909	ug/kg	32.9	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Benzene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Bromomethane	ND	ug/kg	5.3	8260/5035	07/19/07 04:59	07/17/07	ECR	B
2-Butanone	ND	ug/kg	13.1	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
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COC Number:

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Date Collected: 07/17/07 15:10
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	13.1	8260/5035	07/19/07 04:59	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	13.1	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Styrene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Toluene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	7.9	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
mp-Xylene	6.5	ug/kg	5.3	8260/5035	07/19/07 04:59	07/17/07	ECR	B

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983006**
Received: 07/17/07 16:30
Discard: 08/15/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Date Collected: 07/17/07 15:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Acenaphthylene	309	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Anthracene	149	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(a)anthracene	670	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(a)pyrene	925	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(b)fluoranthene	1370	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(g,h,i)perylene	143	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(k)fluoranthene	1170	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Bromophenyl-phenylether	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Butylbenzylphthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Carbazole	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Chloro-3-methylphenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Chloroaniline	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Chloronaphthalene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Chlorophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Chlorophenyl-phenylether	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Chrysene	998	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Matrix: Solid
Date Collected: 07/17/07 15:10
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
o-Cresol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Di-n-Butylphthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Di-n-Octylphthalate	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Dibenzo(a,h)anthracene	96	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Dibenzofuran	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
1,2-Dichlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
1,3-Dichlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
1,4-Dichlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
3,3-Dichlorobenzidine	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4-Dichlorophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Diethylphthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4-Dimethylphenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Dimethylphthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4-Dinitrophenol	ND	ug/kg	576	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4-Dinitrotoluene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,6-Dinitrotoluene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Fluoranthene	1240	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Fluorene	ND	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Matrix: Solid
Date Collected: 07/17/07 15:10
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Hexachlorobutadiene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Hexachlorocyclopentadiene	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Hexachloroethane	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Indeno(1,2,3-cd)pyrene	277	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Isophorone	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Methylnaphthalene	ND	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Naphthalene	ND	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Nitroaniline	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
3-Nitroaniline	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Nitroaniline	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Nitrobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Nitrophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Nitrophenol	ND	ug/kg	576	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
N-Nitrosodiphenylamine	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Pentachlorophenol	ND	ug/kg	576	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Phenanthrene	470	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Phenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2

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PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Matrix: Solid
Date Collected: 07/17/07 15:10
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	1040	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
1,2,4-Trichlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4,5-Trichlorophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4,6-Trichlorophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1260	0.039	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	6.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	93.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
PO#: 07214
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **A-2-SS3[6]**
Matrix: Solid
Date Collected: 07/17/07 15:10
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	54	mg/kg	3	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Barium, Total	110	mg/kg	1	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Cadmium, Total	1.2	mg/kg	0.5	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Chromium, Total	23.8	mg/kg	1.0	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Lead, Total	164	mg/kg	1	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Mercury, Total	0.24	mg/kg	0.20	SW846 7471B	07/29/07 21:29	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2240	ug/kg	67.0%	(24 - 130)
1,2-Dichloroethane-d4	34.8	ug/kg	95.0%	(56 - 124)
Dibromofluoromethane	41.1	ug/kg	112.0%	(62 - 123)
Toluene-d8 [1]	53	ug/kg	144.0%	(59 - 131)
Decachlorobiphenyl	.059	mg/kg	71.0%	(30 - 150)
2-Fluorobiphenyl	1060	ug/kg	64.0%	(40 - 113)
2-Fluorophenol	1820	ug/kg	55.0%	(25 - 110)
Nitrobenzene-d5	987	ug/kg	59.0%	(36 - 113)
Phenol-d5	2070	ug/kg	62.0%	(28 - 111)
4-Bromofluorobenzene	32.2	ug/kg	87.0%	(51 - 128)

1 - The surrogate recovery was outside of the established control limits.

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Lab ID #: **9693983006**
Received: 07/17/07 16:30
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Page: 50 Of 76
PO#: 07214
COC Number:

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **A-2-SS3[6]**
Date Collected: 07/17/07 15:10
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Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.066	mg/kg	81.0%	(30 - 136)
Terphenyl-d14	1000	ug/kg	60.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards and surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Lab ID #: **9693983007**
Received: 07/17/07 16:30
Discard: 08/15/07
Page: 51 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Date Collected: 07/17/07 15:25
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	640	ug/kg	34.4	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Benzene	2.8	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Bromomethane	ND	ug/kg	5.5	8260/5035	07/19/07 05:30	07/17/07	ECR	B
2-Butanone	ND	ug/kg	13.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **A-2-SS4[6]**
Matrix: Solid
Date Collected: 07/17/07 15:25
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	13.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	13.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Styrene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Toluene	2.8	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Total Xylenes	8.4	ug/kg	8.2	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
mp-Xylene	6.8	ug/kg	5.5	8260/5035	07/19/07 05:30	07/17/07	ECR	B

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983007**
Received: 07/17/07 16:30
Discard: 08/15/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Matrix: Solid
Date Collected: 07/17/07 15:25
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Acenaphthylene	1180	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Anthracene	1010	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(a)anthracene	3930	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(a)pyrene	5080	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(b)fluoranthene	5900	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(g,h,i)perylene	3220	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(k)fluoranthene	4730	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Bromophenyl-phenylether	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Butylbenzylphthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Carbazole	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Chloro-3-methylphenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Chloroaniline	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Chloronaphthalene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Chlorophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Chlorophenyl-phenylether	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Chrysene	4870	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2

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Page: 54 Of 76
PO#: 07214

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **A-2-SS4[6]**
Matrix: Solid
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Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
o-Cresol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Di-n-Butylphthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Di-n-Octylphthalate	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Dibenzo(a,h)anthracene	1420	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Dibenzofuran	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
1,2-Dichlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
1,3-Dichlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
1,4-Dichlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
3,3-Dichlorobenzidine	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4-Dichlorophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Diethylphthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4-Dimethylphenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Dimethylphthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4-Dinitrophenol	ND	ug/kg	2360	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4-Dinitrotoluene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,6-Dinitrotoluene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Fluoranthene	6620	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Fluorene	ND	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2

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PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Matrix: Solid
Date Collected: 07/17/07 15:25
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Hexachlorobutadiene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Hexachlorocyclopentadiene	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Hexachloroethane	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Indeno(1,2,3-cd)pyrene	3920	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Isophorone	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Methylnaphthalene	ND	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Naphthalene	ND	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Nitroaniline	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
3-Nitroaniline	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Nitroaniline	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Nitrobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Nitrophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Nitrophenol	ND	ug/kg	2360	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
N-Nitrosodiphenylamine	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Pentachlorophenol	ND	ug/kg	2360	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Phenanthrene	2580	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Phenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Matrix: Solid
Date Collected: 07/17/07 15:25
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	5590	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
1,2,4-Trichlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4,5-Trichlorophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4,6-Trichlorophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1260	0.217	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	10.6	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	89.4	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Matrix: Solid
Date Collected: 07/17/07 15:25
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	35	mg/kg	3	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Barium, Total	106	mg/kg	1	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Cadmium, Total	2.1	mg/kg	0.5	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Chromium, Total	35.3	mg/kg	1.1	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Lead, Total	266	mg/kg	1	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 21:33	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2360	ug/kg	72.0%	(24 - 130)
1,2-Dichloroethane-d4	31.7	ug/kg	86.0%	(56 - 124)
Dibromofluoromethane	36.4	ug/kg	99.0%	(62 - 123)
Toluene-d8 [1]	52	ug/kg	141.0%	(59 - 131)
Decachlorobiphenyl	.072	mg/kg	87.0%	(30 - 150)
2-Fluorobiphenyl	1170	ug/kg	72.0%	(40 - 113)
2-Fluorophenol	2030	ug/kg	62.0%	(25 - 110)
Nitrobenzene-d5	1100	ug/kg	68.0%	(36 - 113)
Phenol-d5	2270	ug/kg	70.0%	(28 - 111)
4-Bromofluorobenzene	44.3	ug/kg	120.0%	(51 - 128)

1 - The surrogate recovery was outside of the established control limits.

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Date Collected: 07/17/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	**Result**	**Units**	**Recovery**	**Limits**
Tetrachloro-m-xylene	.07	mg/kg	84.0%	(30 - 136)
Terphenyl-d14	1200	ug/kg	74.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards and surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Lab ID #: **9693983008**
Received: 07/17/07 16:30
Discard: 08/15/07
Page: 59 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**
Date Collected: 07/17/07 15:35
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	1140	ug/kg	536	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Benzene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Benzene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Bromoform	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Bromoform	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Bromomethane	ND	ug/kg	3.8	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Bromomethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
2-Butanone	20.9	ug/kg	9.5	8260/5035	07/19/07 06:31	07/17/07	ECR	B
2-Butanone	ND	ug/kg	536	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983008**
Received: 07/17/07 16:30
Discard: 08/15/07
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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**
Date Collected: 07/17/07 15:35
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
Chlorodibromomethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Chloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chloroform	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Chloroform	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Chloromethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	376	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B

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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Ethylbenzene	2.5	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
2-Hexanone	ND	ug/kg	9.5	8260/5035	07/19/07 06:31	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	268	8260/5035	07/24/07 10:32	07/17/07	JAH	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.5	8260/5035	07/19/07 06:31	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	268	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Styrene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Styrene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **B-SS1[6]**
Matrix: Solid
Date Collected: 07/17/07 15:35
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
Tetrachloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Toluene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Toluene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Total Xylenes	14.1	ug/kg	5.7	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	161	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
o-Xylene	3.0	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
o-Xylene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
mp-Xylene	11.1	ug/kg	3.8	8260/5035	07/19/07 06:31	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	107	8260/5035	07/24/07 10:32	07/17/07	JAH	A

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **B-SS1[6]**
Matrix: Solid
Date Collected: 07/17/07 15:35
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Acenaphthylene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Anthracene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(a)anthracene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(a)pyrene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(b)fluoranthene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(g,h,i)perylene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(k)fluoranthene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Bromophenyl-phenylether	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Butylbenzylphthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Carbazole	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Chloro-3-methylphenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Chloroaniline	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Chloronaphthalene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Chlorophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Chlorophenyl-phenylether	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Chrysene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
o-Cresol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Di-n-Butylphthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Di-n-Octylphthalate	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Dibenzo(a,h)anthracene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Dibenzofuran	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
1,2-Dichlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
1,3-Dichlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
1,4-Dichlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
3,3-Dichlorobenzidine	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4-Dichlorophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Diethylphthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4-Dimethylphenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Dimethylphthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4-Dinitrophenol	ND	ug/kg	558	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4-Dinitrotoluene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,6-Dinitrotoluene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Fluoranthene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Fluorene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2

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SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Hexachlorobutadiene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Hexachlorocyclopentadiene	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Hexachloroethane	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Indeno(1,2,3-cd)pyrene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Isophorone	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Methylnaphthalene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Naphthalene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Nitroaniline	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
3-Nitroaniline	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Nitroaniline	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Nitrobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Nitrophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Nitrophenol	ND	ug/kg	558	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
N-Nitrosodiphenylamine	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Pentachlorophenol	ND	ug/kg	558	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Phenanthrene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Phenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2

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SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
1,2,4-Trichlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4,5-Trichlorophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4,6-Trichlorophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	4.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	95.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**
Date Collected: 07/17/07 15:35
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	2	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Barium, Total	76	mg/kg	1	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Cadmium, Total	0.8	mg/kg	0.5	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Chromium, Total	22.5	mg/kg	1	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Lead, Total	9	mg/kg	1	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.18	SW846 7471B	07/29/07 21:37	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	1850	ug/kg	56.0%	(24 - 130)
1,2-Dichloroethane-d4	24.1	ug/kg	88.0%	(56 - 124)
1,2-Dichloroethane-d4	1660	ug/kg	108.0%	(71 - 146)
Dibromofluoromethane	24	ug/kg	88.0%	(62 - 123)
Dibromofluoromethane	1850	ug/kg	120.0%	(42 - 143)
Toluene-d8	23.5	ug/kg	86.0%	(59 - 131)
Toluene-d8	1990	ug/kg	130.0%	(54 - 141)
Decachlorobiphenyl	.061	mg/kg	74.0%	(30 - 150)
2-Fluorobiphenyl	924	ug/kg	56.0%	(40 - 113)
2-Fluorophenol	1830	ug/kg	56.0%	(25 - 110)

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983008**
Received: 07/17/07 16:30
Discard: 08/15/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
PO#: 07214
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **B-SS1[6]**
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Surrogates (continued)	Result	Units	Recovery	Limits
Nitrobenzene-d5	979	ug/kg	60.0%	(36 - 113)
Phenol-d5	1940	ug/kg	59.0%	(28 - 111)
4-Bromofluorobenzene	24.9	ug/kg	91.0%	(51 - 128)
4-Bromofluorobenzene	1660	ug/kg	108.0%	(46 - 138)
Tetrachloro-m-xylene	.07	mg/kg	86.0%	(30 - 136)
Terphenyl-d14	1040	ug/kg	63.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **B-SS2[6]**
Date Collected: 07/17/07 15:45
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	188	ug/kg	27.6	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Benzene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Bromomethane	ND	ug/kg	4.4	8260/5035	07/19/07 06:00	07/17/07	ECR	B
2-Butanone	19.6	ug/kg	11.0	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B

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COC Number:

Sample ID: **B-SS2[6]**
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Date Collected: 07/17/07 15:45
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	11.0	8260/5035	07/19/07 06:00	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	11.0	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Styrene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Toluene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	6.6	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	4.4	8260/5035	07/19/07 06:00	07/17/07	ECR	B

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Acenaphthylene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Anthracene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(a)anthracene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(a)pyrene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(b)fluoranthene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(g,h,i)perylene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(k)fluoranthene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Bromophenyl-phenylether	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Butylbenzylphthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Carbazole	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Chloro-3-methylphenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Chloroaniline	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Chloronaphthalene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Chlorophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Chlorophenyl-phenylether	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Chrysene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
o-Cresol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Di-n-Butylphthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Di-n-Octylphthalate	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Dibenzo(a,h)anthracene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Dibenzofuran	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
1,2-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
1,3-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
1,4-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
3,3-Dichlorobenzidine	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4-Dichlorophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Diethylphthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4-Dimethylphenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Dimethylphthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4-Dinitrophenol	ND	ug/kg	569	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4-Dinitrotoluene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,6-Dinitrotoluene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Fluoranthene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Fluorene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2

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SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Hexachlorobutadiene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Hexachlorocyclopentadiene	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Hexachloroethane	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Indeno(1,2,3-cd)pyrene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Isophorone	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Methylnaphthalene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Naphthalene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Nitroaniline	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
3-Nitroaniline	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Nitroaniline	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Nitrobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Nitrophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Nitrophenol	ND	ug/kg	569	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
N-Nitrosodiphenylamine	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Pentachlorophenol	ND	ug/kg	569	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Phenanthrene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Phenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
1,2,4-Trichlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4,5-Trichlorophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4,6-Trichlorophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	5.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	94.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D

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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983009**
Received: 07/17/07 16:30
Discard: 08/15/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS2[6]**
Date Collected: 07/17/07 15:45

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	2	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Barium, Total	56	mg/kg	1	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Cadmium, Total	0.9	mg/kg	0.5	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Chromium, Total	20.7	mg/kg	1	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Lead, Total	10	mg/kg	1	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 21:40	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2470	ug/kg	74.0%	(24 - 130)
1,2-Dichloroethane-d4	27.5	ug/kg	88.0%	(56 - 124)
Dibromofluoromethane	27.3	ug/kg	87.0%	(62 - 123)
Toluene-d8	28.6	ug/kg	92.0%	(59 - 131)
Decachlorobiphenyl	.061	mg/kg	73.0%	(30 - 150)
2-Fluorobiphenyl	1130	ug/kg	68.0%	(40 - 113)
2-Fluorophenol	2320	ug/kg	70.0%	(25 - 110)
Nitrobenzene-d5	1170	ug/kg	71.0%	(36 - 113)
Phenol-d5	2470	ug/kg	74.0%	(28 - 111)
4-Bromofluorobenzene	28.7	ug/kg	92.0%	(51 - 128)

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August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983009**
Received: 07/17/07 16:30
Discard: 08/15/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
PO#: 07214
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **B-SS2[6]**
Matrix: Solid
Date Collected: 07/17/07 15:45
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.071	mg/kg	85.0%	(30 - 136)
Terphenyl-d14	1290	ug/kg	78.0%	(35 - 135)

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Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9694212**

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

PO#: 07214

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Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis. Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan.

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

Qualifier Flags - These flags may follow individual results for a specific analyte
- U - Indicates that the analyte was not detected
- J - Indicates an estimated value between the MDL and PQL

Note: This cover letter and the attached Chain-of-Custody document is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694212001**
Received: 07/18/07 14:07
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

PO#: 07214
COC Number:

Sample ID: **C-SS1[6]**
Date Collected: 07/18/07 09:45

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	11.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	88.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	349	mg/kg	1	SW846 6010B	07/27/07 11:28	07/26/07	JWK	A

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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
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Hershey, PA 17033

Lab ID #: **9694212002**
Received: 07/18/07 14:07
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

PO#: 07214
COC Number:

Sample ID: **C-SS2[6]**
Date Collected: 07/18/07 09:55

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	15.3	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	84.7	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	563	mg/kg	1	SW846 6010B	07/27/07 11:34	07/26/07	JWK	A

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Laboratory Manager

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Lab ID #: **9694212003**
Received: 07/18/07 14:07
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

PO#: 07214
COC Number:

Sample ID: **C-SS3[6]**
Date Collected: 07/18/07 10:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	17.4	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	82.6	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	658	mg/kg	1	SW846 6010B	07/27/07 11:40	07/26/07	JWK	A

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Lab ID #: **9694212004**
Received: 07/18/07 14:07
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
PO#: 07214
Workorder ID: **Soils-Total Lead**
COC Number:

Sample ID: **C-SS4[6]**
Matrix: Solid
Date Collected: 07/18/07 10:05
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	10.5	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	89.5	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	554	mg/kg	0.8	SW846 6010B	07/27/07 11:46	07/26/07	JWK	A

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Lab ID #: **9694212005**
Received: 07/18/07 14:07
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

PO#: 07214
COC Number:

Sample ID: **C-SS5[6]**
Date Collected: 07/18/07 10:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	19.6	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	80.4	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	1000	mg/kg	1	SW846 6010B	07/31/07 16:05	07/27/07	JWK	A1

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Lab ID #: **9694212006**
Received: 07/18/07 14:07
Discard: 08/16/07
Page: 7 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**
PO#: 07214
COC Number:

Sample ID: **C-SS6[6]**
Date Collected: 07/18/07 10:15
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	17.4	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	82.6	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	749	mg/kg	2	SW846 6010B	07/31/07 16:10	07/27/07	JWK	A1

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Lab ID #: **9694212007**
Received: 07/18/07 14:07
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

PO#: 07214
COC Number:

Sample ID: **C-SS7[20]**
Date Collected: 07/18/07 10:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	1.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	98.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	17	mg/kg	4	SW846 6010B	08/01/07 01:05	07/27/07	TED	A1

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Laboratory Manager

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Mr. Dan Buterbaugh
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Hershey, PA 17033

Lab ID #: **9694212008**
Received: 07/18/07 14:07
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

PO#: 07214
COC Number:

Sample ID: **C-SS8[16]**
Date Collected: 07/18/07 11:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	18.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	81.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	1040	mg/kg	0.8	SW846 6010B	07/31/07 16:45	07/27/07	JWK	A1

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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
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Hershey, PA 17033

Lab ID #: **9694212009**
Received: 07/18/07 14:07
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

PO#: 07214
COC Number:

Sample ID: **C-SS9[22]**
Date Collected: 07/18/07 11:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	8.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	91.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	14	mg/kg	1	SW846 6010B	07/31/07 16:51	07/27/07	JWK	A1

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Laboratory Manager

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August 2, 2007

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ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694212010**
Received: 07/18/07 14:07
Discard: 08/16/07
Page: 11 Of 11
PO#: 07214
COC Number:

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

Sample ID: **C-SS10[24]**
Date Collected: 07/18/07 11:25
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	18.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	81.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	19	mg/kg	1	SW846 6010B	07/31/07 16:57	07/27/07	JWK	A1

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Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9694438**

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214

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A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

Qualifier Flags - These flags may follow individual results for a specific analyte
- U - Indicates that the analyte was not detected
- J - Indicates an estimated value between the MDL and PQL

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Raymond J. Martrano
Laboratory Manager

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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
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Hershey, PA 17033

Lab ID #: **9694438001**
Received: 07/19/07 16:32
Discard: 08/16/07
Page: 2 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	45.0	ug/kg	26.4	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Benzene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Bromochloromethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Bromoform	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Bromomethane	ND	ug/kg	4.2	8260/5035	07/24/07 22:08	07/19/07	ECR	B
2-Butanone	ND	ug/kg	10.5	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chlorobenzene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chloroform	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chloromethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438001**
Received: 07/19/07 16:32
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Matrix: Solid
Date Collected: 07/19/07 11:20
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Ethylbenzene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
2-Hexanone	ND	ug/kg	10.5	8260/5035	07/24/07 22:08	07/19/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.5	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Methylene Chloride	2.8	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Styrene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Toluene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Total Xylenes	ND	ug/kg	6.3	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Trichloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
o-Xylene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
mp-Xylene	ND	ug/kg	4.2	8260/5035	07/24/07 22:08	07/19/07	ECR	B

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Lab ID #: **9694438001**
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Page: 4 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Acenaphthylene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Anthracene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Carbazole	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Chrysene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1

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Date Collected: 07/19/07 11:20
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Dibenzofuran	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	715	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Fluoranthene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Fluorene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Isophorone	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Naphthalene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	715	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	715	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Phenanthrene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Phenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1

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Page: 7 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
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PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20
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Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	24.5	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E
Total Solids	75.5	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	4	mg/kg	3	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Barium, Total	20	mg/kg	1	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Cadmium, Total	1.3	mg/kg	0.6	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Chromium, Total	7.0	mg/kg	1.2	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Lead, Total	19	mg/kg	1	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Mercury, Total	ND	mg/kg	0.22	SW846 7471B	07/31/07 09:11	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	6	SW846 6010B	08/01/07 20:17	07/27/07	JVU	E3
Silver, Total	ND	mg/kg	0.6	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	1990	ug/kg	60.0%	(24 - 130)
1,2-Dichloroethane-d4	20.1	ug/kg	84.0%	(56 - 124)
Dibromofluoromethane	20.2	ug/kg	85.0%	(62 - 123)
Toluene-d8	21.1	ug/kg	88.0%	(59 - 131)
Decachlorobiphenyl	.066	mg/kg	83.0%	(30 - 150)
2-Fluorobiphenyl	909	ug/kg	55.0%	(40 - 113)
2-Fluorophenol	1740	ug/kg	52.0%	(25 - 110)
Nitrobenzene-d5	1060	ug/kg	63.0%	(36 - 113)
Phenol-d5	2100	ug/kg	63.0%	(28 - 111)
4-Bromofluorobenzene	20.6	ug/kg	86.0%	(51 - 128)

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.066	mg/kg	83.0%	(30 - 136)
Terphenyl-d14	1080	ug/kg	65.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	522	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Benzene	8380	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Bromochloromethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Bromodichloromethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Bromoform	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Bromomethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
2-Butanone	ND	ug/kg	522	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Carbon Disulfide	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Carbon Tetrachloride	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chlorobenzene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chlorodibromomethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chloroform	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chloromethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,2-Dibromo-3-chloropropane	ND	ug/kg	365	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,2-Dibromoethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1-Dichloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,2-Dichloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1-Dichloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
cis-1,2-Dichloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A

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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438002**
Received: 07/19/07 16:32
Discard: 08/16/07
Page: 11 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,2-Dichloropropane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
cis-1,3-Dichloropropene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
trans-1,3-Dichloropropene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Ethylbenzene	3860	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
2-Hexanone	ND	ug/kg	261	8260/5035	07/26/07 17:04	07/19/07	JAH	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	261	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Methylene Chloride	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Styrene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Tetrachloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Toluene	8110	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Total Xylenes	9670	ug/kg	156	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1,1-Trichloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1,2-Trichloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Trichloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Vinyl Chloride	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
o-Xylene	1750	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
mp-Xylene	7920	ug/kg	104	8260/5035	07/26/07 17:04	07/19/07	JAH	A

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
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PO#: 07214
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Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	347	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Acenaphthylene	104	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Anthracene	174	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Carbazole	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Chrysene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1

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Matrix: Solid
Date Collected: 07/19/07 14:50
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Dibenzofuran	227	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	641	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Fluoranthene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Fluorene	627	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1

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Sample ID: **D-SB5[7.5]**
Matrix: Solid
Date Collected: 07/19/07 14:50
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Isophorone	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Methylnaphthalene	8280	ug/kg	332	SW846 8270C	07/31/07 23:14	07/24/07	DRS	E1
Naphthalene	512	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	641	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
N-Nitrosodiphenylamine	670	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	641	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Phenanthrene	2080	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Phenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1

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PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**
Matrix: Solid
Date Collected: 07/19/07 14:50
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	195	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	16.1	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E
Total Solids	83.9	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
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PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	6	mg/kg	3	SW846 6010B	08/01/07 01:17	07/27/07	JWK	E3
Barium, Total	51	mg/kg	1	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3
Cadmium, Total	1.2	mg/kg	0.5	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3
Chromium, Total	20.3	mg/kg	1.1	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3
Lead, Total	13	mg/kg	1	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	07/31/07 09:14	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/01/07 20:21	07/27/07	JVU	E3
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2210	ug/kg	67.0%	(24 - 130)
2,4,6-Tribromophenol	1910	ug/kg	57.0%	(24 - 130)
1,2-Dichloroethane-d4	1180	ug/kg	90.0%	(71 - 146)
Dibromofluoromethane	1150	ug/kg	87.0%	(42 - 143)
Toluene-d8	1200	ug/kg	92.0%	(54 - 141)
Decachlorobiphenyl	.059	mg/kg	73.0%	(30 - 150)
2-Fluorobiphenyl	905	ug/kg	54.0%	(40 - 113)
2-Fluorobiphenyl	946	ug/kg	57.0%	(40 - 113)
2-Fluorophenol	1830	ug/kg	55.0%	(25 - 110)
2-Fluorophenol	1720	ug/kg	52.0%	(25 - 110)

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Nitrobenzene-d5	1130	ug/kg	68.0%	(36 - 113)
Nitrobenzene-d5	1050	ug/kg	63.0%	(36 - 113)
Phenol-d5	2130	ug/kg	64.0%	(28 - 111)
Phenol-d5	2050	ug/kg	62.0%	(28 - 111)
4-Bromofluorobenzene	1080	ug/kg	82.0%	(46 - 138)
Tetrachloro-m-xylene	.051	mg/kg	63.0%	(30 - 136)
Terphenyl-d14	980	ug/kg	59.0%	(35 - 135)
Terphenyl-d14	809	ug/kg	49.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB6[6]**
Date Collected: 07/19/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	33.9	ug/kg	23.3	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Benzene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Bromoform	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Bromomethane	ND	ug/kg	3.7	8260/5035	07/26/07 02:52	07/19/07	JAH	C
2-Butanone	ND	ug/kg	9.3	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chloroform	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chloromethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.7	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438003**
Received: 07/19/07 16:32
Discard: 08/16/07
Page: 19 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **D-SB6[6]**
Date Collected: 07/19/07 15:25
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
2-Hexanone	ND	ug/kg	9.3	8260/5035	07/26/07 02:52	07/19/07	JAH	C
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.3	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Styrene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Toluene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Total Xylenes	ND	ug/kg	5.6	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
o-Xylene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
mp-Xylene	ND	ug/kg	3.7	8260/5035	07/26/07 02:52	07/19/07	JAH	C

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SEMIVOLATILES								
Acenaphthene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Acenaphthylene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Anthracene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(a)anthracene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(a)pyrene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(b)fluoranthene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(g,h,i)perylene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(k)fluoranthene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Bromophenyl-phenylether	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Butylbenzylphthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Carbazole	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Chloro-3-methylphenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Chloroaniline	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Chloronaphthalene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Chlorophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Chlorophenyl-phenylether	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Chrysene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1

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Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
o-Cresol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Di-n-Butylphthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Di-n-Octylphthalate	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Dibenzo(a,h)anthracene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Dibenzofuran	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
1,2-Dichlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
1,3-Dichlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
1,4-Dichlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
3,3-Dichlorobenzidine	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4-Dichlorophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Diethylphthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4-Dimethylphenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Dimethylphthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4-Dinitrophenol	ND	ug/kg	664	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4-Dinitrotoluene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,6-Dinitrotoluene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Fluoranthene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Fluorene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1

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PO#: 07214
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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Hexachlorobutadiene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Hexachlorocyclopentadiene	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Hexachloroethane	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Isophorone	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Methylnaphthalene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Naphthalene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Nitroaniline	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
3-Nitroaniline	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Nitroaniline	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Nitrobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Nitrophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Nitrophenol	ND	ug/kg	664	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
N-Nitrosodiphenylamine	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Pentachlorophenol	ND	ug/kg	664	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Phenanthrene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Phenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
1,2,4-Trichlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4,5-Trichlorophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4,6-Trichlorophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	18.9	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E
Total Solids	81.1	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	5	mg/kg	2	SW846 6010B	08/01/07 02:12	07/27/07	JWK	E3
Barium, Total	151	mg/kg	0.9	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3
Cadmium, Total	0.8	mg/kg	0.5	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3
Chromium, Total	19.6	mg/kg	0.9	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3
Lead, Total	36	mg/kg	0.9	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3
Mercury, Total	0.24	mg/kg	0.21	SW846 7471B	07/31/07 09:38	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/01/07 20:26	07/27/07	JVU	E3
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	1590	ug/kg	48.0%	(24 - 130)
1,2-Dichloroethane-d4	19.9	ug/kg	88.0%	(56 - 124)
Dibromofluoromethane	19	ug/kg	84.0%	(62 - 123)
Toluene-d8	20.4	ug/kg	90.0%	(59 - 131)
Decachlorobiphenyl	.06	mg/kg	73.0%	(30 - 150)
2-Fluorobiphenyl	705	ug/kg	42.0%	(40 - 113)
2-Fluorophenol	1340	ug/kg	40.0%	(25 - 110)
Nitrobenzene-d5	767	ug/kg	46.0%	(36 - 113)
Phenol-d5	1470	ug/kg	44.0%	(28 - 111)
4-Bromofluorobenzene	19.5	ug/kg	86.0%	(51 - 128)

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB6[6]**
Date Collected: 07/19/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.06	mg/kg	72.0%	(30 - 136)
Terphenyl-d14	1000	ug/kg	60.0%	(35 - 135)

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Raymond J. Martrano
Laboratory Manager

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Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9694772**

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214

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Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis. Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan.

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

Qualifier Flags - These flags may follow individual results for a specific analyte
- U - Indicates that the analyte was not detected
- J - Indicates an estimated value between the MDL and PQL

Note: This cover letter and the attached Chain-of-Custody document is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772001**
Received: 07/20/07 14:55
Discard: 08/16/07
Page: 2 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **A3-SS1 [1.0]**
Date Collected: 07/20/07 09:05
Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	26.4	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Benzene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Bromochloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Bromoform	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Bromomethane	ND	ug/kg	4.2	8260/5035	07/25/07 00:11	07/20/07	ECR	B
2-Butanone	ND	ug/kg	10.5	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chlorobenzene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chloroform	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B

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VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Ethylbenzene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
2-Hexanone	ND	ug/kg	10.5	8260/5035	07/25/07 00:11	07/20/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.5	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Methylene Chloride	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Styrene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Toluene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Total Xylenes	ND	ug/kg	6.3	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Trichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
o-Xylene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
mp-Xylene	ND	ug/kg	4.2	8260/5035	07/25/07 00:11	07/20/07	ECR	B

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SEMIVOLATILES								
Acenaphthene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Acenaphthylene	75	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Anthracene	153	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(a)anthracene	654	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(a)pyrene	620	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(b)fluoranthene	826	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(k)fluoranthene	918	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Carbazole	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Chrysene	720	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1

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SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Dibenzofuran	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	569	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Fluoranthene	1590	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Fluorene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1

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SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	93	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Isophorone	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Naphthalene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	569	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	569	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Phenanthrene	819	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Phenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1

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SEMIVOLATILES (continued)								
Pyrene	1260	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	7.5	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E
Total Solids	92.5	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E

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METALS								
Arsenic, Total	ND	mg/kg	5	SW846 6010B	08/01/07 09:25	07/30/07	TED	E3
Barium, Total	58	mg/kg	1	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3
Cadmium, Total	0.9	mg/kg	0.5	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3
Chromium, Total	6.5	mg/kg	1	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3
Lead, Total	14	mg/kg	1	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3
Mercury, Total	ND	mg/kg	0.18	SW846 7471B	07/31/07 09:46	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/01/07 21:21	07/30/07	JVU	E3
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2240	ug/kg	69.0%	(24 - 130)
1,2-Dichloroethane-d4	25.8	ug/kg	88.0%	(56 - 124)
Dibromofluoromethane	24.7	ug/kg	85.0%	(62 - 123)
Toluene-d8	25.6	ug/kg	87.0%	(59 - 131)
Decachlorobiphenyl	.057	mg/kg	68.0%	(30 - 150)
2-Fluorobiphenyl	1000	ug/kg	62.0%	(40 - 113)
2-Fluorophenol	1810	ug/kg	56.0%	(25 - 110)
Nitrobenzene-d5	952	ug/kg	59.0%	(36 - 113)
Phenol-d5	2020	ug/kg	62.0%	(28 - 111)
4-Bromofluorobenzene	24.9	ug/kg	85.0%	(51 - 128)

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Sample ID: **A3-SS1 [1.0]**
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Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.065	mg/kg	78.0%	(30 - 136)
Terphenyl-d14	1080	ug/kg	67.0%	(35 - 135)

Comments:

One or more of the GCMS semi-volatile internal standards were recovered at <50%. The sample was reanalyzed with similar results indicating a sample matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772002**
Received: 07/20/07 14:55
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS2 [1.0]**
Date Collected: 07/20/07 09:20

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	20.1	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Benzene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Bromochloromethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Bromodichloromethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Bromoform	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Bromomethane	ND	ug/kg	3.2	8260/5035	07/25/07 00:41	07/20/07	ECR	B
2-Butanone	ND	ug/kg	8.0	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Carbon Disulfide	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chlorobenzene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chlorodibromomethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chloroform	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chloromethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.2	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B

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VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Ethylbenzene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
2-Hexanone	ND	ug/kg	8.0	8260/5035	07/25/07 00:41	07/20/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	8.0	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Methylene Chloride	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Styrene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Tetrachloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Toluene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Total Xylenes	ND	ug/kg	4.8	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Trichloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Vinyl Chloride	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
o-Xylene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
mp-Xylene	ND	ug/kg	3.2	8260/5035	07/25/07 00:41	07/20/07	ECR	B

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SEMIVOLATILES								
Acenaphthene	228	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Acenaphthylene	251	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Anthracene	772	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(a)anthracene	2470	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(a)pyrene	2650	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(b)fluoranthene	3060	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(g,h,i)perylene	309	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(k)fluoranthene	2960	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Carbazole	344	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Chrysene	2780	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	272	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Dibenzofuran	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	1090	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Fluoranthene	4660	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Fluorene	247	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1

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SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	579	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Isophorone	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Naphthalene	ND	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	1090	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	1090	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Phenanthrene	3380	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Phenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1

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SEMIVOLATILES (continued)								
Pyrene	4090	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	2.9	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E
Total Solids	97.1	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E

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METALS								
Arsenic, Total	3	mg/kg	2	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Barium, Total	33	mg/kg	0.7	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Cadmium, Total	ND	mg/kg	0.3	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Chromium, Total	7.3	mg/kg	0.7	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Lead, Total	34	mg/kg	1	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/31/07 09:49	07/30/07	CMD	E6
Selenium, Total	ND	mg/kg	3	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Silver, Total	ND	mg/kg	0.3	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2040	ug/kg	63.0%	(24 - 130)
1,2-Dichloroethane-d4	21.4	ug/kg	91.0%	(56 - 124)
Dibromofluoromethane	20.5	ug/kg	88.0%	(62 - 123)
Toluene-d8	21	ug/kg	90.0%	(59 - 131)
Decachlorobiphenyl	.065	mg/kg	82.0%	(30 - 150)
2-Fluorobiphenyl	928	ug/kg	57.0%	(40 - 113)
2-Fluorophenol	1870	ug/kg	57.0%	(25 - 110)
Nitrobenzene-d5	914	ug/kg	56.0%	(36 - 113)
Phenol-d5	2160	ug/kg	66.0%	(28 - 111)
4-Bromofluorobenzene	20.3	ug/kg	87.0%	(51 - 128)

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Collected by: Collected by Customer

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.064	mg/kg	81.0%	(30 - 136)
Terphenyl-d14	1000	ug/kg	61.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772003**
Received: 07/20/07 14:55
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	26.2	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Benzene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Bromochloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Bromoform	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Bromomethane	ND	ug/kg	4.2	8260/5035	07/25/07 01:12	07/20/07	ECR	B
2-Butanone	ND	ug/kg	10.5	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chlorobenzene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chloroform	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B

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PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35
Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Ethylbenzene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
2-Hexanone	ND	ug/kg	10.5	8260/5035	07/25/07 01:12	07/20/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.5	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Methylene Chloride	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Styrene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Toluene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Total Xylenes	ND	ug/kg	6.3	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Trichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
o-Xylene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
mp-Xylene	ND	ug/kg	4.2	8260/5035	07/25/07 01:12	07/20/07	ECR	B

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Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	140	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Acenaphthylene	136	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Anthracene	441	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(a)anthracene	1390	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(a)pyrene	1460	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(b)fluoranthene	1990	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(g,h,i)perylene	118	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(k)fluoranthene	1910	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Carbazole	184	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Chrysene	1580	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	100	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Dibenzofuran	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	544	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Fluoranthene	3260	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Fluorene	135	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	223	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Isophorone	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Naphthalene	ND	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	544	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	544	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Phenanthrene	2160	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Phenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	2670	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	2.7	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E
Total Solids	97.3	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	2	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Barium, Total	19	mg/kg	0.9	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Cadmium, Total	ND	mg/kg	0.4	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Chromium, Total	2.9	mg/kg	0.9	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Lead, Total	15	mg/kg	2	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Mercury, Total	ND	mg/kg	0.18	SW846 7471B	07/31/07 09:53	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	4	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Silver, Total	ND	mg/kg	0.4	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2900	ug/kg	89.0%	(24 - 130)
1,2-Dichloroethane-d4	29	ug/kg	95.0%	(56 - 124)
Dibromofluoromethane	26.4	ug/kg	86.0%	(62 - 123)
Toluene-d8	26.3	ug/kg	86.0%	(59 - 131)
Decachlorobiphenyl	.062	mg/kg	75.0%	(30 - 150)
2-Fluorobiphenyl	1180	ug/kg	72.0%	(40 - 113)
2-Fluorophenol	2150	ug/kg	66.0%	(25 - 110)
Nitrobenzene-d5	1180	ug/kg	72.0%	(36 - 113)
Phenol-d5	2450	ug/kg	75.0%	(28 - 111)
4-Bromofluorobenzene	26.5	ug/kg	87.0%	(51 - 128)

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35

Matrix: Solid
Collected by: Collected by Customer

Surrogates (continued)	**Result**	**Units**	**Recovery**	**Limits**
Tetrachloro-m-xylene	.072	mg/kg	87.0%	(30 - 136)
Terphenyl-d14	1310	ug/kg	80.0%	(35 - 135)

Comments:

One or more of the GCMS semi-volatile internal standards were recovered at <50%. The sample was reanalyzed with similar results indicating a sample matrix interference.

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Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772004**
Received: 07/20/07 14:55
Discard: 08/16/07
Page: 26 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **D-SB7 [3.5]**
Date Collected: 07/20/07 12:05
Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Benzene	ND	ug/kg	46.7	8260/5035	07/25/07 22:02	07/20/07	ECR	A
Ethylbenzene	ND	ug/kg	46.7	8260/5035	07/25/07 22:02	07/20/07	ECR	A
Isopropylbenzene	ND	ug/kg	46.7	8260/5035	07/25/07 22:02	07/20/07	ECR	A
Naphthalene	169	ug/kg	93.5	8260/5035	07/25/07 22:02	07/20/07	ECR	A
Toluene	ND	ug/kg	46.7	8260/5035	07/25/07 22:02	07/20/07	ECR	A
SEMIVOLATILES								
Benzo(a)anthracene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Benzo(a)pyrene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Benzo(b)fluoranthene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Benzo(g,h,i)perylene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Chrysene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Pyrene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
WET CHEMISTRY								
Moisture	11.7	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	D
Total Solids	88.3	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	D

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August 2, 2007

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ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772004**
Received: 07/20/07 14:55
Discard: 08/16/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
PO#: 07214
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **D-SB7 [3.5]**
Matrix: Solid
Date Collected: 07/20/07 12:05
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Lead, Total	18	mg/kg	2	SW846 6010B	08/01/07 16:45	07/30/07	JVU	D2

Surrogates	Result	Units	Recovery	Limits
1,2-Dichloroethane-d4	1240	ug/kg	100.0%	(71 - 146)
Dibromofluoromethane	1410	ug/kg	114.0%	(42 - 143)
Toluene-d8	1430	ug/kg	116.0%	(54 - 141)
2-Fluorobiphenyl	1150	ug/kg	70.0%	(43 - 113)
Nitrobenzene-d5	1190	ug/kg	73.0%	(23 - 131)
4-Bromofluorobenzene	1220	ug/kg	98.0%	(46 - 138)
Terphenyl-d14	1070	ug/kg	65.0%	(45 - 122)

Comments:
For the 8270 analysis, this sample was extracted with twice the called for weight. Data not impacted.

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Raymond J. Martrano
Laboratory Manager

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Lab ID #: **9694772005**
Received: 07/20/07 14:55
Discard: 08/16/07
Page: 28 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB8 [3.5]**
Date Collected: 07/20/07 12:25

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Benzene	ND	ug/kg	48.8	8260/5035	07/25/07 21:29	07/20/07	ECR	A
Naphthalene	ND	ug/kg	97.5	8260/5035	07/25/07 21:29	07/20/07	ECR	A
SEMIVOLATILES								
Anthracene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Benzo(a)anthracene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Benzo(a)pyrene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Benzo(b)fluoranthene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Benzo(g,h,i)perylene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Chrysene	72.3	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Fluorene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Phenanthrene	238	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Pyrene	106	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
WET CHEMISTRY								
Moisture	17.2	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	D
Total Solids	82.8	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	D

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Lab ID #: **9694772005**
Received: 07/20/07 14:55
Discard: 08/16/07
Page: 29 Of 29
PO#: 07214
COC Number:

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **D-SB8 [3.5]**
Date Collected: 07/20/07 12:25
Matrix: Solid
Collected by: Collected by Customer

Surrogates	Result	Units	Recovery	Limits
1,2-Dichloroethane-d4	1120	ug/kg	93.0%	(71 - 146)
Dibromofluoromethane	1300	ug/kg	107.0%	(42 - 143)
Toluene-d8	1320	ug/kg	109.0%	(54 - 141)
2-Fluorobiphenyl	1450	ug/kg	89.0%	(43 - 113)
Nitrobenzene-d5	1430	ug/kg	87.0%	(23 - 131)
4-Bromofluorobenzene	1110	ug/kg	91.0%	(46 - 138)
Terphenyl-d14	1480	ug/kg	90.0%	(45 - 122)

Comments:
For the 8270 analysis, this sample was extracted with twice the called for weight. Data not impacted.

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Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9695451**

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214

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Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis. Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan.

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

Qualifier Flags - These flags may follow individual results for a specific analyte
- U - Indicates that the analyte was not detected
- J - Indicates an estimated value between the MDL and PQL

Note: This cover letter and the attached Chain-of-Custody document is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451001**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 2 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**
Date Collected: 07/26/07 09:25
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	17.3	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Benzene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Bromomethane	ND	ug/kg	2.8	8260/5035	07/30/07 10:05	07/26/07	JAH	B
2-Butanone	ND	ug/kg	6.9	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.8	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B

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Lab ID #: **9695451001**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 3 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**
Date Collected: 07/26/07 09:25
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	6.9	8260/5035	07/30/07 10:05	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	6.9	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Styrene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Toluene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	4.2	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	2.8	8260/5035	07/30/07 10:05	07/26/07	JAH	B

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Lab ID #: **9695451001**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 4 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**
Date Collected: 07/26/07 09:25
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Anthracene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Carbazole	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Chrysene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1

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Lab ID #: **9695451001**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 5 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**
Date Collected: 07/26/07 09:25
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	646	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Fluorene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1

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August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451001**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 6 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**
Date Collected: 07/26/07 09:25
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Isophorone	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	646	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	646	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Phenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1

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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	17.8	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	82.2	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	6	mg/kg	2	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Barium, Total	60	mg/kg	1	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Chromium, Total	29.5	mg/kg	1	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Lead, Total	13	mg/kg	2	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	08/09/07 08:08	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2

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Page: 8 Of 71
PO#: 07214
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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **E-SS1[2.5]**
Date Collected: 07/26/07 09:25
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Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2940	ug/kg	90.0%	(24 - 130)
1,2-Dichloroethane-d4	14.9	ug/kg	87.0%	(56 - 124)
Dibromofluoromethane	15.1	ug/kg	88.0%	(62 - 123)
Toluene-d8	15.3	ug/kg	89.0%	(59 - 131)
2-Fluorobiphenyl	1240	ug/kg	75.0%	(40 - 113)
2-Fluorophenol	2840	ug/kg	87.0%	(25 - 110)
Nitrobenzene-d5	1400	ug/kg	85.0%	(36 - 113)
Phenol-d5	2930	ug/kg	89.0%	(28 - 111)
4-Bromofluorobenzene	14	ug/kg	82.0%	(51 - 128)
Terphenyl-d14	1450	ug/kg	89.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**
Date Collected: 07/26/07 09:50
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	26.8	ug/kg	23.1	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Benzene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.7	8260/5035	07/30/07 10:37	07/26/07	JAH	B
2-Butanone	ND	ug/kg	9.3	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.7	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B

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Date Collected: 07/26/07 09:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	9.3	8260/5035	07/30/07 10:37	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.3	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Styrene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Toluene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	5.6	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.7	8260/5035	07/30/07 10:37	07/26/07	JAH	B

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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Anthracene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Carbazole	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Chrysene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	553	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Fluorene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1

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Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**
Matrix: Solid
Date Collected: 07/26/07 09:50
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Isophorone	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	553	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	553	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Phenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451002**
Received: 07/26/07 16:15
Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**
Date Collected: 07/26/07 09:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	3.0	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	97.0	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	9	mg/kg	2	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Barium, Total	62	mg/kg	0.8	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Chromium, Total	19.7	mg/kg	0.8	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Lead, Total	25	mg/kg	2	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	08/09/07 08:22	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	4	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2

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Lab ID #: **9695451002**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 15 Of 71
PO#: 07214
COC Number:

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **E-SS2[2.0]**
Matrix: Solid
Date Collected: 07/26/07 09:50
Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	3370	ug/kg	102.0%	(24 - 130)
1,2-Dichloroethane-d4	22.8	ug/kg	85.0%	(56 - 124)
Dibromofluoromethane	23.5	ug/kg	87.0%	(62 - 123)
Toluene-d8	24.5	ug/kg	91.0%	(59 - 131)
2-Fluorobiphenyl	1540	ug/kg	93.0%	(40 - 113)
2-Fluorophenol	3180	ug/kg	96.0%	(25 - 110)
Nitrobenzene-d5	1820	ug/kg	110.0%	(36 - 113)
Phenol-d5	3540	ug/kg	107.0%	(28 - 111)
4-Bromofluorobenzene	22.2	ug/kg	82.0%	(51 - 128)
Terphenyl-d14	1850	ug/kg	112.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Lab ID #: **9695451003**
Received: 07/26/07 16:15
Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS3[2.5]**
Date Collected: 07/26/07 10:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	24.0	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Benzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.8	8260/5035	07/30/07 11:08	07/26/07	JAH	B
2-Butanone	ND	ug/kg	9.6	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B

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Date Collected: 07/26/07 10:15
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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	9.6	8260/5035	07/30/07 11:08	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.6	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Styrene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Toluene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	5.8	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.8	8260/5035	07/30/07 11:08	07/26/07	JAH	B

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Anthracene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Carbazole	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Chrysene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	674	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Fluorene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Isophorone	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	674	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	674	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Phenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451003**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 21 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS3[2.5]**
Date Collected: 07/26/07 10:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	21.4	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	78.6	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	9	mg/kg	2	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Barium, Total	100	mg/kg	1	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Chromium, Total	40.2	mg/kg	1	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Lead, Total	17	mg/kg	2	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.22	SW846 7471B	08/09/07 08:26	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2

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Received: 07/26/07 16:15
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Page: 22 Of 71
PO#: 07214
COC Number:

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **E-SS3[2.5]**
Date Collected: 07/26/07 10:15
Matrix: Solid
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Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2690	ug/kg	82.0%	(24 - 130)
1,2-Dichloroethane-d4	20.4	ug/kg	90.0%	(56 - 124)
Dibromofluoromethane	20.1	ug/kg	89.0%	(62 - 123)
Toluene-d8	20.9	ug/kg	92.0%	(59 - 131)
2-Fluorobiphenyl	1170	ug/kg	72.0%	(40 - 113)
2-Fluorophenol	2600	ug/kg	80.0%	(25 - 110)
Nitrobenzene-d5	1300	ug/kg	80.0%	(36 - 113)
Phenol-d5	2710	ug/kg	83.0%	(28 - 111)
4-Bromofluorobenzene	19.4	ug/kg	85.0%	(51 - 128)
Terphenyl-d14	1400	ug/kg	86.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS4[2.0]**
Date Collected: 07/26/07 11:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	30.0	ug/kg	23.8	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Benzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.8	8260/5035	07/30/07 11:39	07/26/07	JAH	B
2-Butanone	ND	ug/kg	9.5	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B

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Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	9.5	8260/5035	07/30/07 11:39	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.5	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Styrene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Toluene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	5.7	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.8	8260/5035	07/30/07 11:39	07/26/07	JAH	B

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COC Number:

Sample ID: **E-SS4[2.0]**
Matrix: Solid
Date Collected: 07/26/07 11:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Anthracene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Carbazole	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Chrysene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1

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Matrix: Solid
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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	617	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Fluorene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1

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Date Collected: 07/26/07 11:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Isophorone	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	617	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	617	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Phenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1

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Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS4[2.0]**
Matrix: Solid
Date Collected: 07/26/07 11:00
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	14.0	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	86.0	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	3	mg/kg	3	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Barium, Total	38	mg/kg	1	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Chromium, Total	8.3	mg/kg	1.0	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Lead, Total	6	mg/kg	2	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Mercury, Total [1]	ND	mg/kg	0.21	SW846 7471B	08/09/07 08:29	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2

1 - The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451004**
Received: 07/26/07 16:15
Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS4[2.0]**
Date Collected: 07/26/07 11:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2890	ug/kg	88.0%	(24 - 130)
1,2-Dichloroethane-d4	21.5	ug/kg	87.0%	(56 - 124)
Dibromofluoromethane	21.2	ug/kg	86.0%	(62 - 123)
Toluene-d8	21.9	ug/kg	89.0%	(59 - 131)
2-Fluorobiphenyl	1300	ug/kg	80.0%	(40 - 113)
2-Fluorophenol	2790	ug/kg	85.0%	(25 - 110)
Nitrobenzene-d5	1460	ug/kg	89.0%	(36 - 113)
Phenol-d5	2830	ug/kg	86.0%	(28 - 111)
4-Bromofluorobenzene	20.1	ug/kg	82.0%	(51 - 128)
Terphenyl-d14	1380	ug/kg	84.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS5[2.5]**
Date Collected: 07/26/07 11:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	40.6	ug/kg	26.3	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Benzene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Bromoform	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Bromomethane	ND	ug/kg	4.2	8260/5035	07/30/07 12:10	07/26/07	JAH	B
2-Butanone	ND	ug/kg	10.5	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chloroform	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chloromethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B

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Page: 31 Of 71
PO#: 07214

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **E-SS5[2.5]**
Matrix: Solid
Date Collected: 07/26/07 11:30
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	10.5	8260/5035	07/30/07 12:10	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.5	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Methylene Chloride	3.0	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Styrene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Toluene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	6.3	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
o-Xylene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	4.2	8260/5035	07/30/07 12:10	07/26/07	JAH	B

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Date Collected: 07/26/07 11:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Anthracene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Carbazole	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Chrysene	103	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1

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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	598	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Fluorene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1

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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Isophorone	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	598	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	598	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Phenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1

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PO#: 07214
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Date Collected: 07/26/07 11:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	10.3	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	89.7	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	13	mg/kg	1	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Barium, Total	117	mg/kg	0.6	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.3	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Chromium, Total	11.7	mg/kg	0.6	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Lead, Total	154	mg/kg	1	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	08/09/07 08:40	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	3	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.3	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451005**
Received: 07/26/07 16:15
Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS5[2.5]**
Date Collected: 07/26/07 11:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	3080	ug/kg	93.0%	(24 - 130)
1,2-Dichloroethane-d4	24.5	ug/kg	87.0%	(56 - 124)
Dibromofluoromethane	24.3	ug/kg	86.0%	(62 - 123)
Toluene-d8	25.3	ug/kg	90.0%	(59 - 131)
2-Fluorobiphenyl	1410	ug/kg	85.0%	(40 - 113)
2-Fluorophenol	2960	ug/kg	89.0%	(25 - 110)
Nitrobenzene-d5	1450	ug/kg	88.0%	(36 - 113)
Phenol-d5	2970	ug/kg	90.0%	(28 - 111)
4-Bromofluorobenzene	23.9	ug/kg	85.0%	(51 - 128)
Terphenyl-d14	1430	ug/kg	86.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	19.3	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Benzene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.1	8260/5035	07/31/07 13:29	07/26/07	JAH	B
2-Butanone	ND	ug/kg	7.7	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.1	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B

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Lab ID #: **9695451006**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 38 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	7.7	8260/5035	07/31/07 13:29	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	7.7	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Methylene Chloride	2.2	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Styrene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Toluene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	4.6	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.1	8260/5035	07/31/07 13:29	07/26/07	JAH	B

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COC Number:

Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Acenaphthylene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Anthracene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Carbazole	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Chloroaniline	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Chlorophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Chrysene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1

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Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
o-Cresol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Dibenzofuran	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Diethylphthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Dimethylphthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	562	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Fluoranthene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Fluorene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1

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PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Hexachloroethane	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Isophorone	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Naphthalene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Nitroaniline	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
3-Nitroaniline	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Nitroaniline	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Nitrobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Nitrophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Nitrophenol	ND	ug/kg	562	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Pentachlorophenol	ND	ug/kg	562	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Phenanthrene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Phenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1

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PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
WET CHEMISTRY								
Moisture	5.2	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	94.8	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	4	mg/kg	2	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Barium, Total	29	mg/kg	0.8	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Cadmium, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Chromium, Total	10.3	mg/kg	0.8	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Lead, Total	6	mg/kg	2	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Mercury, Total	ND	mg/kg	0.20	SW846 7471B	08/09/07 08:44	08/08/07	CMD	E5
Selenium, Total	ND	mg/kg	4	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Silver, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	3110	ug/kg	95.0%	(24 - 130)
1,2-Dichloroethane-d4	16.6	ug/kg	76.0%	(56 - 124)
Dibromofluoromethane	18.5	ug/kg	84.0%	(62 - 123)
Toluene-d8	21.3	ug/kg	97.0%	(59 - 131)
2-Fluorobiphenyl	1380	ug/kg	84.0%	(40 - 113)
2-Fluorophenol	3070	ug/kg	93.0%	(25 - 110)
Nitrobenzene-d5	1530	ug/kg	93.0%	(36 - 113)
Phenol-d5	3160	ug/kg	96.0%	(28 - 111)
4-Bromofluorobenzene	18.7	ug/kg	85.0%	(51 - 128)
Terphenyl-d14	1430	ug/kg	87.0%	(35 - 135)

Comments:

One or more of the matrix spike compounds for the EPA 8270 analysis were recovered outside of the quality control limits due to sample matrix interferences. The LCS sample associated to this sample was within control limits.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451007**
Received: 07/26/07 16:15
Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS7[2.5]**
Date Collected: 07/26/07 12:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	26.3	ug/kg	23.7	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Benzene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.8	8260/5035	07/31/07 14:00	07/26/07	JAH	B
2-Butanone	ND	ug/kg	9.5	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B

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PO#: 07214
COC Number:

Sample ID: **E-SS7[2.5]**
Matrix: Solid
Date Collected: 07/26/07 12:35
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	9.5	8260/5035	07/31/07 14:00	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.5	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Methylene Chloride	2.4	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Styrene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Toluene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	5.7	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.8	8260/5035	07/31/07 14:00	07/26/07	JAH	B

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Date Collected: 07/26/07 12:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Acenaphthylene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(a)anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(a)pyrene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(b)fluoranthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(g,h,i)perylene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(k)fluoranthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Bromophenyl-phenylether	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Butylbenzylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Carbazole	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Chloro-3-methylphenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Chloroaniline	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Chloronaphthalene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Chlorophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Chlorophenyl-phenylether	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Chrysene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1

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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
o-Cresol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Di-n-Butylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Di-n-Octylphthalate	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Dibenzo(a,h)anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Dibenzofuran	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
1,2-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
1,3-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
1,4-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
3,3-Dichlorobenzidine	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4-Dichlorophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Diethylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4-Dimethylphenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Dimethylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4-Dinitrophenol	ND	ug/kg	640	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4-Dinitrotoluene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,6-Dinitrotoluene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Fluoranthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Fluorene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1

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Matrix: Solid
Date Collected: 07/26/07 12:35
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Hexachlorobutadiene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Hexachlorocyclopentadiene	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Hexachloroethane	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Isophorone	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Methylnaphthalene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Naphthalene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Nitroaniline	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
3-Nitroaniline	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Nitroaniline	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Nitrobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Nitrophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Nitrophenol	ND	ug/kg	640	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
N-Nitrosodiphenylamine	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Pentachlorophenol	ND	ug/kg	640	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Phenanthrene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Phenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1

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Matrix: Solid
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Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	83	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
1,2,4-Trichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4,5-Trichlorophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4,6-Trichlorophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
WET CHEMISTRY								
Moisture	15.9	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	84.1	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	11	mg/kg	3	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Barium, Total	96	mg/kg	1	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.6	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Chromium, Total	26.4	mg/kg	1.1	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Lead, Total	60	mg/kg	2	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	08/09/07 08:47	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	6	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.6	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2

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Page: 50 Of 71
PO#: 07214
COC Number:

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **E-SS7[2.5]**
Matrix: Solid
Date Collected: 07/26/07 12:35
Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2870	ug/kg	86.0%	(24 - 130)
1,2-Dichloroethane-d4	19.5	ug/kg	82.0%	(56 - 124)
Dibromofluoromethane	20.4	ug/kg	86.0%	(62 - 123)
Toluene-d8	22.8	ug/kg	95.0%	(59 - 131)
2-Fluorobiphenyl	1230	ug/kg	74.0%	(40 - 113)
2-Fluorophenol	2600	ug/kg	78.0%	(25 - 110)
Nitrobenzene-d5	1420	ug/kg	86.0%	(36 - 113)
Phenol-d5	2670	ug/kg	80.0%	(28 - 111)
4-Bromofluorobenzene	20.5	ug/kg	86.0%	(51 - 128)
Terphenyl-d14	1470	ug/kg	89.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Discard: 08/24/07
Page: 51 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	27.0	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Benzene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Bromoform	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Bromomethane	ND	ug/kg	4.3	8260/5035	07/31/07 14:30	07/26/07	JAH	B
2-Butanone	ND	ug/kg	10.8	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chloroform	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chloromethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451008**
Received: 07/26/07 16:15
Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	10.8	8260/5035	07/31/07 14:30	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.8	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Styrene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Toluene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	6.5	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
o-Xylene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	4.3	8260/5035	07/31/07 14:30	07/26/07	JAH	B

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Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Acenaphthylene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(a)anthracene	107	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(a)pyrene	100	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(b)fluoranthene	101	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(g,h,i)perylene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(k)fluoranthene	120	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Bromophenyl-phenylether	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Butylbenzylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Carbazole	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Chloro-3-methylphenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Chloroaniline	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Chloronaphthalene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Chlorophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Chlorophenyl-phenylether	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Chrysene	189	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1

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Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
o-Cresol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Di-n-Butylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Di-n-Octylphthalate	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Dibenzo(a,h)anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Dibenzofuran	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
1,2-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
1,3-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
1,4-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
3,3-Dichlorobenzidine	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4-Dichlorophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Diethylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4-Dimethylphenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Dimethylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4-Dinitrophenol	ND	ug/kg	638	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4-Dinitrotoluene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,6-Dinitrotoluene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Fluoranthene	240	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Fluorene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1

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PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Hexachlorobutadiene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Hexachlorocyclopentadiene	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Hexachloroethane	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Isophorone	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Methylnaphthalene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Naphthalene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Nitroaniline	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
3-Nitroaniline	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Nitroaniline	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Nitrobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Nitrophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Nitrophenol	ND	ug/kg	638	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
N-Nitrosodiphenylamine	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Pentachlorophenol	ND	ug/kg	638	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Phenanthrene	235	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Phenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1

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PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	234	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
1,2,4-Trichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4,5-Trichlorophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4,6-Trichlorophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
WET CHEMISTRY								
Moisture	16.2	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	83.8	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	18	mg/kg	2	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Barium, Total	84	mg/kg	0.9	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Chromium, Total	19.7	mg/kg	0.9	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Lead, Total	1430	mg/kg	2	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.23	SW846 7471B	08/09/07 08:51	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2810	ug/kg	85.0%	(24 - 130)
1,2-Dichloroethane-d4	22.7	ug/kg	84.0%	(56 - 124)
Dibromofluoromethane	23.1	ug/kg	85.0%	(62 - 123)
Toluene-d8	26.7	ug/kg	98.0%	(59 - 131)
2-Fluorobiphenyl	1320	ug/kg	80.0%	(40 - 113)
2-Fluorophenol	2710	ug/kg	82.0%	(25 - 110)
Nitrobenzene-d5	1510	ug/kg	92.0%	(36 - 113)
Phenol-d5	2780	ug/kg	84.0%	(28 - 111)
4-Bromofluorobenzene	26.3	ug/kg	97.0%	(51 - 128)
Terphenyl-d14	1550	ug/kg	94.0%	(35 - 135)

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Raymond J. Martrano
Laboratory Manager

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Lab ID #: **9695451009**
Received: 07/26/07 16:15
Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**
Date Collected: 07/26/07 13:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	22.9	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Benzene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Bromochloromethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Bromodichloromethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Bromoform	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Bromomethane	ND	ug/kg	3.7	8260/5035	08/08/07 20:11	07/26/07	DXN	C
2-Butanone	ND	ug/kg	9.1	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Carbon Disulfide	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Carbon Tetrachloride	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chlorobenzene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chlorodibromomethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chloroform	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chloromethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.7	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,2-Dibromoethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1-Dichloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,2-Dichloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1-Dichloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
cis-1,2-Dichloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451009**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 59 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**
Date Collected: 07/26/07 13:35
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,2-Dichloropropane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
cis-1,3-Dichloropropene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
trans-1,3-Dichloropropene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Ethylbenzene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
2-Hexanone	ND	ug/kg	9.1	8260/5035	08/08/07 20:11	07/26/07	DXN	C
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.1	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Methylene Chloride	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Styrene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Tetrachloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Toluene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Total Xylenes	ND	ug/kg	5.5	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1,1-Trichloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1,2-Trichloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Trichloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Vinyl Chloride	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
o-Xylene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
mp-Xylene	ND	ug/kg	3.7	8260/5035	08/08/07 20:11	07/26/07	DXN	C

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**
Date Collected: 07/26/07 13:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Acenaphthylene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Anthracene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(a)anthracene	155	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(a)pyrene	188	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(b)fluoranthene	189	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(g,h,i)perylene	163	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(k)fluoranthene	192	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Bromophenyl-phenylether	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Butylbenzylphthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Carbazole	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Chloro-3-methylphenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Chloroaniline	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Chloronaphthalene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Chlorophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Chlorophenyl-phenylether	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Chrysene	263	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1

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COC Number:

Sample ID: **E-SS9[2.5]**
Matrix: Solid
Date Collected: 07/26/07 13:35
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
o-Cresol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Di-n-Butylphthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Di-n-Octylphthalate	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Dibenzo(a,h)anthracene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Dibenzofuran	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
1,2-Dichlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
1,3-Dichlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
1,4-Dichlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
3,3-Dichlorobenzidine	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4-Dichlorophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Diethylphthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4-Dimethylphenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Dimethylphthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4-Dinitrophenol	ND	ug/kg	633	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4-Dinitrotoluene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,6-Dinitrotoluene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Fluoranthene	401	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Fluorene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
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Date Collected: 07/26/07 13:35
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Hexachlorobutadiene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Hexachlorocyclopentadiene	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Hexachloroethane	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Indeno(1,2,3-cd)pyrene	138	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Isophorone	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Methylnaphthalene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Naphthalene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Nitroaniline	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
3-Nitroaniline	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Nitroaniline	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Nitrobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Nitrophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Nitrophenol	ND	ug/kg	633	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
N-Nitrosodiphenylamine	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Pentachlorophenol	ND	ug/kg	633	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Phenanthrene	271	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Phenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1

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Sample ID: **E-SS9[2.5]**
Matrix: Solid
Date Collected: 07/26/07 13:35
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	470	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
1,2,4-Trichlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4,5-Trichlorophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4,6-Trichlorophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
WET CHEMISTRY								
Moisture	15.2	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	84.8	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	46	mg/kg	2	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Barium, Total	98	mg/kg	0.7	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Cadmium, Total	0.6	mg/kg	0.4	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Chromium, Total	37.0	mg/kg	0.7	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Lead, Total	199	mg/kg	1	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.23	SW846 7471B	08/09/07 08:55	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	4	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2

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Page: 64 Of 71
PO#: 07214
COC Number:

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **E-SS9[2.5]**
Date Collected: 07/26/07 13:35
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2980	ug/kg	90.0%	(24 - 130)
1,2-Dichloroethane-d4	19.3	ug/kg	83.0%	(56 - 124)
Dibromofluoromethane	18	ug/kg	78.0%	(62 - 123)
Toluene-d8	20.4	ug/kg	88.0%	(59 - 131)
2-Fluorobiphenyl	1340	ug/kg	81.0%	(40 - 113)
2-Fluorophenol	2760	ug/kg	83.0%	(25 - 110)
Nitrobenzene-d5	1550	ug/kg	93.0%	(36 - 113)
Phenol-d5	2760	ug/kg	83.0%	(28 - 111)
4-Bromofluorobenzene	19.8	ug/kg	85.0%	(51 - 128)
Terphenyl-d14	1510	ug/kg	91.0%	(35 - 135)

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Raymond J. Martrano
Laboratory Manager

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	20.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Benzene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Bromochloromethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Bromodichloromethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Bromoform	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Bromomethane	ND	ug/kg	3.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
2-Butanone	ND	ug/kg	8.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Carbon Disulfide	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Carbon Tetrachloride	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chlorobenzene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chlorodibromomethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chloroform	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chloromethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,2-Dibromoethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1-Dichloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,2-Dichloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1-Dichloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
cis-1,2-Dichloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C

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Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,2-Dichloropropane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
cis-1,3-Dichloropropene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
trans-1,3-Dichloropropene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Ethylbenzene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
2-Hexanone	ND	ug/kg	8.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	8.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Methylene Chloride	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Styrene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Tetrachloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Toluene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Total Xylenes	ND	ug/kg	5.0	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1,1-Trichloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1,2-Trichloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Trichloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Vinyl Chloride	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
o-Xylene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
mp-Xylene	ND	ug/kg	3.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451010**
Received: 07/26/07 16:15
Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
PO#: 07214
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
COC Number:

Sample ID: **E-SS10[2.5]**
Matrix: Solid
Date Collected: 07/26/07 14:05
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Acenaphthylene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Anthracene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(a)anthracene	154	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(a)pyrene	162	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(b)fluoranthene	216	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(g,h,i)perylene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(k)fluoranthene	146	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Bromophenyl-phenylether	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Butylbenzylphthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Carbazole	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Chloro-3-methylphenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Chloroaniline	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Chloronaphthalene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Chlorophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Chlorophenyl-phenylether	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Chrysene	259	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1

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Lab ID #: **9695451010**
Received: 07/26/07 16:15
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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
o-Cresol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Di-n-Butylphthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Di-n-Octylphthalate	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Dibenzo(a,h)anthracene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Dibenzofuran	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
1,2-Dichlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
1,3-Dichlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
1,4-Dichlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
3,3-Dichlorobenzidine	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4-Dichlorophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Diethylphthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4-Dimethylphenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Dimethylphthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4-Dinitrophenol	ND	ug/kg	588	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4-Dinitrotoluene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,6-Dinitrotoluene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Fluoranthene	390	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Fluorene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1

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Received: 07/26/07 16:15
Discard: 08/24/07

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Hexachlorobutadiene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Hexachlorocyclopentadiene	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Hexachloroethane	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Isophorone	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Methylnaphthalene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Naphthalene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Nitroaniline	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
3-Nitroaniline	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Nitroaniline	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Nitrobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Nitrophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Nitrophenol	ND	ug/kg	588	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
N-Nitrosodiphenylamine	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Pentachlorophenol	ND	ug/kg	588	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Phenanthrene	285	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Phenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1

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Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**
PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	363	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
1,2,4-Trichlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4,5-Trichlorophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4,6-Trichlorophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
WET CHEMISTRY								
Moisture	8.5	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	91.5	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	22	mg/kg	1	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Barium, Total	91	mg/kg	0.6	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Cadmium, Total	0.9	mg/kg	0.3	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Chromium, Total	32.4	mg/kg	0.6	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Lead, Total	285	mg/kg	1	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	08/09/07 09:06	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	3	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.3	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2

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Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451010**
Received: 07/26/07 16:15
Discard: 08/24/07
Page: 71 Of 71
PO#: 07214
COC Number:

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05
Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2980	ug/kg	90.0%	(24 - 130)
1,2-Dichloroethane-d4	19	ug/kg	84.0%	(56 - 124)
Dibromofluoromethane	18.1	ug/kg	80.0%	(62 - 123)
Toluene-d8	19.5	ug/kg	86.0%	(59 - 131)
2-Fluorobiphenyl	1340	ug/kg	80.0%	(40 - 113)
2-Fluorophenol	2720	ug/kg	82.0%	(25 - 110)
Nitrobenzene-d5	1410	ug/kg	85.0%	(36 - 113)
Phenol-d5	2640	ug/kg	80.0%	(28 - 111)
4-Bromofluorobenzene	19.5	ug/kg	86.0%	(51 - 128)
Terphenyl-d14	1370	ug/kg	82.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

Project Name:	**YORK RDA - NORTHWEST**	Workorder:	**9707875**
Purchase Order:	**07214**	Workorder ID:	**Soils-PADEP Fuel Oil #2**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

October 25, 2007

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Thursday, October 18, 2007

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Raymond J Martrano (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9707875 Soils-PADEP Fuel Oil #2 Discard Date: 11/08/2007

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9707875001	E-TS-1 [5]	Solid	10/17/07 16:50	10/18/07 08:00	Dan Buterbaugh
9707875002	E-TS-2 [5]	Solid	10/17/07 17:50	10/18/07 08:00	Dan Buterbaugh
9707875003	E-LS-1 [1]	Solid	10/17/07 14:45	10/18/07 08:00	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Both flags indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9707875 Soils-PADEP Fuel Oil #2

Lab ID: **9707875001** Date Collected: 10/17/2007 16:50 Matrix: Solid

Sample ID: **E-TS-1 [5]** Date Received: 10/18/2007 08:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
VOLATILE ORGANICS											
Benzene	ND		ug/kg	53.3	8260/5035	10/17/07	ECR	10/23/07 20:31	ECR	A	
Ethylbenzene	ND		ug/kg	53.3	8260/5035	10/17/07	ECR	10/23/07 20:31	ECR	A	
Isopropylbenzene	ND		ug/kg	53.3	8260/5035	10/17/07	ECR	10/23/07 20:31	ECR	A	
Naphthalene	ND		ug/kg	107	8260/5035	10/17/07	ECR	10/23/07 20:31	ECR	A	
Toluene	ND		ug/kg	53.3	8260/5035	10/17/07	ECR	10/23/07 20:31	ECR	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
1,2-Dichloroethane-d4 (S)	106		%	71-146	8260/5035	10/17/07	ECR	10/23/07 20:31	ECR	A	
4-Bromofluorobenzene (S)	123		%	46-138	8260/5035	10/17/07	ECR	10/23/07 20:31	ECR	A	
Toluene-d8 (S)	110		%	54-141	8260/5035	10/17/07	ECR	10/23/07 20:31	ECR	A	
Dibromofluoromethane (S)	102		%	42-143	8260/5035	10/17/07	ECR	10/23/07 20:31	ECR	A	
SEMIVOLATILES											
Fluorene	ND		ug/kg	118	SW846 8270C	10/19/07	ADM	10/20/07 20:35	DRS	D1	
Phenanthrene	ND		ug/kg	118	SW846 8270C	10/19/07	ADM	10/20/07 20:35	DRS	D1	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
2-Fluorobiphenyl (S)	89		%	43-113	SW846 8270C	10/19/07	ADM	10/20/07 20:35	DRS	D1	
Nitrobenzene-d5 (S)	112		%	23-131	SW846 8270C	10/19/07	ADM	10/20/07 20:35	DRS	D1	
Terphenyl-d14 (S)	95		%	45-122	SW846 8270C	10/19/07	ADM	10/20/07 20:35	DRS	D1	
WET CHEMISTRY											
Moisture	15.4		%	0.1	SM20-2540 G			10/18/07 21:59	AJG	D	
Total Solids	84.6		%	0.1	SM20-2540 G			10/18/07 21:59	AJG	D	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9707875 Soils-PADEP Fuel Oil #2

Lab ID: **9707875002** Date Collected: 10/17/2007 17:50 Matrix: Solid

Sample ID: **E-TS-2 [5]** Date Received: 10/18/2007 08:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
VOLATILE ORGANICS											
Benzene	ND		ug/kg	45.2	8260/5035	10/17/07	ECR	10/20/07 01:29	ECR	A	
Ethylbenzene	ND		ug/kg	45.2	8260/5035	10/17/07	ECR	10/20/07 01:29	ECR	A	
Isopropylbenzene	ND		ug/kg	45.2	8260/5035	10/17/07	ECR	10/20/07 01:29	ECR	A	
Naphthalene	ND		ug/kg	90.5	8260/5035	10/17/07	ECR	10/20/07 01:29	ECR	A	
Toluene	ND		ug/kg	45.2	8260/5035	10/17/07	ECR	10/20/07 01:29	ECR	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
1,2-Dichloroethane-d4 (S)	103		%	71-146	8260/5035	10/17/07	ECR	10/20/07 01:29	ECR	A	
Dibromofluoromethane (S)	103		%	42-143	8260/5035	10/17/07	ECR	10/20/07 01:29	ECR	A	
Toluene-d8 (S)	108		%	54-141	8260/5035	10/17/07	ECR	10/20/07 01:29	ECR	A	
4-Bromofluorobenzene (S)	110		%	46-138	8260/5035	10/17/07	ECR	10/20/07 01:29	ECR	A	
SEMIVOLATILES											
Fluorene	ND		ug/kg	110	SW846 8270C	10/19/07	ADM	10/20/07 21:23	DRS	D1	
Phenanthrene	ND		ug/kg	110	SW846 8270C	10/19/07	ADM	10/20/07 21:23	DRS	D1	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
2-Fluorobiphenyl (S)	85		%	43-113	SW846 8270C	10/19/07	ADM	10/20/07 21:23	DRS	D1	
Nitrobenzene-d5 (S)	103		%	23-131	SW846 8270C	10/19/07	ADM	10/20/07 21:23	DRS	D1	
Terphenyl-d14 (S)	92		%	45-122	SW846 8270C	10/19/07	ADM	10/20/07 21:23	DRS	D1	
WET CHEMISTRY											
Moisture	9.4		%	0.1	SM20-2540 G			10/18/07 21:59	AJG	D	
Total Solids	90.6		%	0.1	SM20-2540 G			10/18/07 21:59	AJG	D	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9707875 Soils-PADEP Fuel Oil #2

Lab ID: **9707875003** Date Collected: 10/17/2007 14:45 Matrix: Solid

Sample ID: **E-LS-1 [1]** Date Received: 10/18/2007 08:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
VOLATILE ORGANICS											
Benzene	ND		ug/kg	272	8260/5035	10/17/07	ECR	10/23/07 21:00	ECR	A	
Ethylbenzene	ND		ug/kg	272	8260/5035	10/17/07	ECR	10/23/07 21:00	ECR	A	
Isopropylbenzene	ND		ug/kg	272	8260/5035	10/17/07	ECR	10/23/07 21:00	ECR	A	
Naphthalene	ND		ug/kg	545	8260/5035	10/17/07	ECR	10/23/07 21:00	ECR	A	
Toluene	ND		ug/kg	272	8260/5035	10/17/07	ECR	10/23/07 21:00	ECR	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
1,2-Dichloroethane-d4 (S)	111		%	71-146	8260/5035	10/17/07	ECR	10/23/07 21:00	ECR	A	
4-Bromofluorobenzene (S)	139	1	%	46-138	8260/5035	10/17/07	ECR	10/23/07 21:00	ECR	A	
Dibromofluoromethane (S)	105		%	42-143	8260/5035	10/17/07	ECR	10/23/07 21:00	ECR	A	
Toluene-d8 (S)	106		%	54-141	8260/5035	10/17/07	ECR	10/23/07 21:00	ECR	A	
SEMIVOLATILES											
Fluorene	ND		ug/kg	115	SW846 8270C	10/19/07	ADM	10/20/07 22:11	DRS	D1	
Phenanthrene	ND		ug/kg	115	SW846 8270C	10/19/07	ADM	10/20/07 22:11	DRS	D1	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
2-Fluorobiphenyl (S)	81		%	43-113	SW846 8270C	10/19/07	ADM	10/20/07 22:11	DRS	D1	
Nitrobenzene-d5 (S)	97		%	23-131	SW846 8270C	10/19/07	ADM	10/20/07 22:11	DRS	D1	
Terphenyl-d14 (S)	83		%	45-122	SW846 8270C	10/19/07	ADM	10/20/07 22:11	DRS	D1	
WET CHEMISTRY											
Moisture	12.7		%	0.1	SM20-2540 G			10/18/07 21:59	AJG	D	
Total Solids	87.3		%	0.1	SM20-2540 G			10/18/07 21:59	AJG	D	

Sample Comments:

One or more of the method 8260 surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9707875 Soils-PADEP Fuel Oil #2

PARAMETER QUALIFIERS\FLAGS

[1] The surrogate recovery was outside of the established control limits.

Report ID: 9707875

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1

Courier:

Tracking #:

9707875

Co. Name: ARM

Contact (Report to): Dan Butterbaugh

Phone: 717-533-8600

Address: 1129 W. Governor Rd
Hershey PA 17033

Bill to (if different than Report to):

PO#: 07214

Project Name/#: 07214/ York

ALSI Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.

Date Required:

Approved By:

Email? [X] Y dbutterbaugh@armgroup.net

Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Fuel Oil #2								
***Container Type				G	C									
***Container Size				VO	250									
*** Preservative														
1 E-TS-1 (5')		10/17/07	1650			X								
2 E-TS-2 (5')			1750			X								
3 E-LS-1 (1')			1445			X								
4														
5														
6														
7														
8														

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)

Performed by: DGS

Cooler Temp: 2°C

Therm. ID: 510035559

No. of Coolers:

Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	Y N	Y N	Y N	Y N	

	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
	Y N	Y N	Y N	Y N	Y N

SAMPLED BY (Please Print): Dan Butterbaugh

LOGGED BY(signature): DATE: 10/18/07 TIME: 1053

REVIEWED BY(signature): DATE: 10/19/07 TIME: 0733

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	10/18/07	0800	2 ALSI	10/18/07	0800
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] (data)

EDDs Required? [ ] If yes, format type:

DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ] Other

ALSI FIELD SERVICES

[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite

**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Oil=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 6/07

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Certificate of Analysis

Project Name:	**NWT York/07214**	Workorder:	**9710084**
Purchase Order:	**07214**	Workorder ID:	**NWT/07214**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

November 7, 2007

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 03, 2007

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Raymond J Martrano (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9710084 NWT/07214 Discard Date: 11/21/2007

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9710084001	C-SS11(6)	Solid	11/2/07 11:50	11/3/07 12:10	Dan Buterbaugh
9710084002	C-SS12 (6)	Solid	11/2/07 12:54	11/3/07 12:10	Dan Buterbaugh
9710084003	C-SS11 (16)	Solid	11/2/07 12:30	11/3/07 12:10	Dan Buterbaugh
9710084004	C-SS12 (19)	Solid	11/2/07 13:30	11/3/07 12:10	Dan Buterbaugh
9710084005	C-SS13 (6)	Solid	11/2/07 13:40	11/3/07 12:10	Dan Buterbaugh
9710084006	C-SS13 (18)	Solid	11/2/07 14:03	11/3/07 12:10	Dan Buterbaugh
9710084007	C-SS14 (6)	Solid	11/2/07 14:10	11/3/07 12:10	Dan Buterbaugh
9710084008	C-SS14 (16)	Solid	11/2/07 14:30	11/3/07 12:10	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Both flags indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084001** Date Collected: 11/2/2007 11:50 Matrix: Solid

Sample ID: **C-SS11(6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	22.0		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	78.0		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	273		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:00	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084002** Date Collected: 11/2/2007 12:54 Matrix: Solid

Sample ID: **C-SS12 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	18.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	81.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	79		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:15	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
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ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084003** Date Collected: 11/2/2007 12:30 Matrix: Solid

Sample ID: **C-SS11 (16)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	14.6		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	85.4		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	169		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:20	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084004** Date Collected: 11/2/2007 13:30 Matrix: Solid

Sample ID: **C-SS12 (19)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	22.5		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	77.5		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	247		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:24	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
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ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084005** Date Collected: 11/2/2007 13:40 Matrix: Solid

Sample ID: **C-SS13 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	16.2		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	83.8		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	130		mg/kg	1	SW846 6010B	11/6/07	MNP	11/7/07 15:29	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
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ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084006** Date Collected: 11/2/2007 14:03 Matrix: Solid

Sample ID: **C-SS13 (18)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	19.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	80.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	309		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:33	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084007** Date Collected: 11/2/2007 14:10 Matrix: Solid

Sample ID: **C-SS14 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	16.7		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	83.3		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	460		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:38	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084008** Date Collected: 11/2/2007 14:30 Matrix: Solid

Sample ID: **C-SS14 (16)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	20.4		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	79.6		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	295		mg/kg	1	SW846 6010B	11/6/07	MNP	11/7/07 15:42	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

Report ID: 9710084

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___ (4)

Courier:

Tracking #:

9710084

Co. Name: ARM Group

Contact (Report to): Dan Buterbaugh Phone:

Address: 1129 W Governor Rd Hershey PA

Bill to (if different than Report to): PO#:

Project Name/#: 07214 ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges. Date Required: 11/7/07 Approved By:

Email? [X] Y dbuterbaugh@armgroup.net

Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1 C-SS 11 (6")		11/2/07	1150	G	S	1
2 C-SS 12 (6")			1254	G	S	1
3 C-SS 11 (16")	Jar description is correct 11 (24") does not JK 11/7/07		1230	G	S	1 (~3) depth is (16") and time is 1230 per Dan Buterbaugh. JK-11/7/07.
4 C-SS 12 (19")			1330	G	S	1
5 C-SS 13 (6")			1340	G	S	1
6 C-SS 13 (18")			1403	G	S	1
7 C-SS 14 (6")			1410	G	S	1
8 C-SS 14 (16")		↓	1430	G	S	1

***Container Type: G
***Container Size: 4-8
***Preservative: —

ANALYSES/METHOD REQUESTED: Lead

Receipt Information (completed by Sample Receiving)

Performed by: INITIAL HERE

Cooler Temp: 8

Therm. ID: 9107358

No. of Coolers:

Notes:

Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
(Y) N	(Y) N	(Y) N	(Y) N	Y N

Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
Y N	Y N	(Y) N	(Y) N	(Y) N

SAMPLED BY (Please Print): Dan Buterbaugh

LOGGED BY (signature): DATE 11/7/07 TIME 0827

REVIEWED BY (signature): J. Kester DATE 11/7/07 TIME 0826

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	11/2/07	1210	2 Quo-Pmft	11/3/07	1210
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [X] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

SDWA Forms? yes yes yes yes

State Samples Collected In? MD NJ NY PA

EDDs Required? [ ] If yes, format type:

Other

DOD Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite

**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 6/07

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Certificate of Analysis

Project Name:	**NWT York/07214**	Workorder:	**9710083**
Purchase Order:	**07214**	Workorder ID:	**NWT/07214**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

November 7, 2007

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 03, 2007

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Raymond J Martrano (Laboratory Manager) at (717) 944-5541.

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NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9710083 NWT/07214 Discard Date: 11/21/2007

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9710083001	4301-SS5 (6)	Solid	11/2/07 15:00	11/3/07 12:10	Dan Buterbaugh
9710083002	4301-SS6 (6)	Solid	11/2/07 15:15	11/3/07 12:10	Dan Buterbaugh
9710083003	4301-SS7 (6)	Solid	11/2/07 15:35	11/3/07 12:10	Dan Buterbaugh
9710083004	4301-SS8 (6)	Solid	11/2/07 15:40	11/3/07 12:10	Dan Buterbaugh
9710083005	4301-SS9 (16)	Solid	11/2/07 16:25	11/3/07 12:10	Dan Buterbaugh
9710083006	4301-SS10 (13)	Solid	11/2/07 17:37	11/3/07 12:10	Dan Buterbaugh
9710083007	4301-SS11 (18)	Solid	11/2/07 18:09	11/3/07 12:10	Dan Buterbaugh
9710083008	4301-SS12 (20)	Solid	11/2/07 18:30	11/3/07 12:10	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Both flags indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083001** Date Collected: 11/2/2007 15:00 Matrix: Solid

Sample ID: **4301-SS5 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	14.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	85.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	68	1	mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:47	TED	A1	
Chromium, Total	135	2	mg/kg	0.8	SW846 6010B	11/6/07	MNP	11/7/07 15:47	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083002** Date Collected: 11/2/2007 15:15 Matrix: Solid

Sample ID: **4301-SS6 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	10.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	89.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	56		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:29	TED	A1	
Chromium, Total	212		mg/kg	1	SW846 6010B	11/6/07	MNP	11/7/07 14:29	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083003** Date Collected: 11/2/2007 15:35 Matrix: Solid

Sample ID: **4301-SS7 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	9.2		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	90.8		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	ND	3	mg/kg	83	SW846 6010B	11/6/07	MNP	11/7/07 16:28	TED	A1	
Chromium, Total	968	3	mg/kg	33.4	SW846 6010B	11/6/07	MNP	11/7/07 16:28	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083004** Date Collected: 11/2/2007 15:40 Matrix: Solid

Sample ID: **4301-SS8 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	14.5		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	85.5		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	5		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:38	TED	A1	
Chromium, Total	303		mg/kg	0.9	SW846 6010B	11/6/07	MNP	11/7/07 14:38	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083005** Date Collected: 11/2/2007 16:25 Matrix: Solid

Sample ID: **4301-SS9 (16)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	11.2		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	88.8		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	7		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:42	TED	A1	
Chromium, Total	172		mg/kg	0.8	SW846 6010B	11/6/07	MNP	11/7/07 14:42	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083006** Date Collected: 11/2/2007 17:37 Matrix: Solid

Sample ID: **4301-SS10 (13)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	14.0		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	86.0		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	23		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:47	TED	A1	
Chromium, Total	38.9		mg/kg	0.9	SW846 6010B	11/6/07	MNP	11/7/07 14:47	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083007** Date Collected: 11/2/2007 18:09 Matrix: Solid

Sample ID: **4301-SS11 (18)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	15.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	84.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	49		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:51	TED	A1	
Chromium, Total	25.2		mg/kg	0.9	SW846 6010B	11/6/07	MNP	11/7/07 14:51	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083008** Date Collected: 11/2/2007 18:30 Matrix: Solid

Sample ID: **4301-SS12 (20)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	15.6		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	84.4		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	12		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:56	TED	A1	
Chromium, Total	19.1		mg/kg	0.7	SW846 6010B	11/6/07	MNP	11/7/07 14:56	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9710083 NWT/07214

PARAMETER QUALIFIERS\FLAGS

[1] The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.

[2] One of the two matrix spike analyses performed on this sample failed to meet acceptable recovery limits. The other matrix spike was within acceptable recovery limits. Matrix interferences are the possible cause for the failure.

[3] The sample dilution of 1/50 was made due to the high concentration of Manganese in the sample. The detection limits were raised accordingly. 11/07/07 TED

Report ID: 9710083

7

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___
Courier:
Tracking #:

9710083

Co. Name: ARM Group
Contact (Report to): Dan Butterbaugh
Phone:
Address: 1129 W Governor Rd Hershey PA

Bill to (if different than Report to):
PO#: 07214

Project Name/#: 07214
ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges.
Date Required: 11/7/07
Approved By:

Email? X-Y dbutterbaugh@armgroup.net
Fax? -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Arsenic	Chromium									Enter Number of Containers Per Analysis
1 4301-SS 5 (6")		11/2/07	1506	G	S	1	1									
2 4301-SS 6 (6")			1515			1	1									
3 4301-SS 7 (6")			1535			1	1									
4 4301-SS 8 (6")			1540			1	1									
5 4301-SS 9 (16")			1625			1	1									
6 4301-SS 10 (13")			1737			1	1									
7 4301-SS 11 (18")			1809			1	1									
8 4301-SS 12 (20")			1830			1	1									

***Container Type: G
***Container Size: 8oz
***Preservative: —

ANALYSES/METHOD REQUESTED

Receipt Information (completed by Sample Receiving)
Performed by: INITIAL HERE
Cooler Temp: 8
Therm. ID: S10258Q
No. of Coolers:

Notes: Original project did not ask for Cr. Left message with Dan Butterbaugh about this. DES 11/6/07

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	N	N	N	N	
	Y	Y	Y	Y	
	N	N	N	N	N
	Y	Y	Y	Y	Y

	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
	Y	Y	Y	Y	Y

SAMPLED BY (Please Print): Dan Butterbaugh
LOGGED BY(signature): DATE 11/5/07 TIME 1615
REVIEWED BY(signature): J. Kerstetter DATE 11/6/07 TIME 1506

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	11/5/07	1210	2 Dana Pinti	11/5/07	1210
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [X] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ]
EDDs Required? [ ] If yes, format type:
SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ] Other
DOD Criteria Required?

ALSI FIELD SERVICES
[ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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As RDL ≤ 12 ppm

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Certificate of Analysis

Project Name:	**NWT York/07214**	Workorder:	**9710086**
Purchase Order:	**07214**	Workorder ID:	**NWT/07214**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

November 7, 2007

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 03, 2007

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9710086 NWT/07214 Discard Date: 11/21/2007

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9710086001	43-02-SS4 (6)	Solid	11/2/07 16:50	11/3/07 12:10	Dan Buterbaugh
9710086002	43-02-SS5 (6)	Solid	11/2/07 17:02	11/3/07 12:10	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

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J, B	Both flags indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
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MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9710086 NWT/07214

Lab ID: **9710086001** Date Collected: 11/2/2007 16:50 Matrix: Solid

Sample ID: **43-02-SS4 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	4.3		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	95.7		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	4		mg/kg	2	SW846 6010B	11/7/07	SRT	11/7/07 13:05	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9710086 NWT/07214

Lab ID: **9710086002** Date Collected: 11/2/2007 17:02 Matrix: Solid

Sample ID: **43-02-SS5 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	3.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	96.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	3		mg/kg	2	SW846 6010B	11/7/07	SRT	11/7/07 14:05	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager

5

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

9710086

of

Client Name: ARM Group
Address: PO Box 797, 1129 W Governor Rd Hershey PA
Contact: Dan Butterbaugh
Phone#: 717-533-8600
Project Name/#: NWT York/07214
Bill To:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges.
Date Required: 11/7/07 Approved By: D
Email? [X] -Y dbutterbaugh@armgroup.net
Fax? [ ] -Y No.:

	Sample Description/Location (as it will appear on the lab report)	Sample Date	Military Time	*G or C	**Matrix	Arsenic	***Container Type	***Container Size	*** Preservative
1	43-02-554(6")	11/2/07	1650	G	S	1			
2	43-02-555(6")	"	1702	G	S	1			
3									
4									
5									
6									
7									
8									
9									
10									

ANALYSES/METHOD REQUESTED
Enter Number of Containers Per Analysis Requested or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: 8 Therm. ID: S1023559

	Y	N	Initial
No. of Coolers:			
Custody Seals Present?			DSS
(if present) Seals Intact?			
Received on Ice?	✓		
COC/Labels Complete/Accurate?	✓		
Cont. in Good Cond.?	✓		
Correct Containers?	✓		
Correct Sample Volumes?	✓		
Correct Preservation?	✓		
Headspace/Volatiles?			N/A

Courier/Tracking #:

Sample/COC Comments

SAMPLED BY (Please Print): Dan Butterbaugh
LOGGED BY(signature): [signature] DATE 11/5/07 TIME 1030
REVIEWED BY(signature): J. Kester DATE 11/6/07 TIME 581

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	11/3/07	1210	2	Que Pinti	11/3/07	12:10
3				4			
5				6			
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
State Samples Collected In / SDWA Forms Required?: NC [ ] yes [ ]; NJ [ ] yes [ ]; NY [ ] yes [ ]; PA [✓] yes [ ]
ALSI Field Services: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:
EDDs Required? [ ] If yes, format type:
Other
PWSID
DOD Criteria Required?

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
Copies: WHITE-ORIGINAL, CANARY-CUSTOMER COPY
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
Rev 5/06

need RDL ≤ 12 ppm

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Certificate of Analysis

Project Name:	**NWT York/07214**	Workorder:	**9710002**
Purchase Order:	**07214**	Workorder ID:	**NWT/07214**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

November 9, 2007

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Friday, November 02, 2007

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Raymond J Martrano (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9710002 NWT/07214 Discard Date: 11/23/2007

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9710002001	WADB-5 (7.5)	Solid	11/1/07 12:30	11/2/07 19:00	Steve Fulton
9710002002	WADB-5 (11)	Solid	11/1/07 12:45	11/2/07 19:00	Steve Fulton
9710002003	E-SS5 (4)	Solid	11/1/07 14:45	11/2/07 19:00	Steve Fulton
9710002004	E-SS8 (4)	Solid	11/1/07 15:24	11/2/07 19:00	Steve Fulton
9710002005	E-SS9 (4)	Solid	11/1/07 15:30	11/2/07 19:00	Steve Fulton
9710002006	E-SS10 (4)	Solid	11/1/07 15:55	11/2/07 19:00	Steve Fulton

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Both flags indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002001** Date Collected: 11/1/2007 12:30 Matrix: Solid

Sample ID: **WADB-5 (7.5)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
VOLATILE ORGANICS											
Acetone	ND		ug/kg	488	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Acetonitrile	ND		ug/kg	976	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Acrolein	ND		ug/kg	1220	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Acrylonitrile	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert-Amyl methyl ether	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert-Amyl Alcohol	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert-Amyl Ethylether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Benzene	2580		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Benzyl Chloride	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromochloromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromodichloromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromoform	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromomethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2-Butanone	ND		ug/kg	488	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert.- Butyl Alcohol	ND		ug/kg	488	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
n-Butylbenzene	526		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert-Butylbenzene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
sec-Butylbenzene	443		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Carbon Disulfide	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Carbon Tetrachloride	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chlorobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chlorodibromomethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2-Chloroethylvinyl ether	ND		ug/kg	146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chloroform	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1-Chlorohexane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chloromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chloroprene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
3-Chloro-1-propene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
o-Chlorotoluene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
p-Chlorotoluene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Cyclohexane	74.8		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dibromo-3-chloropropane	ND		ug/kg	342	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dibromoethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Dibromomethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
trans-1,4-Dichloro-2-butene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dichlorobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,3-Dichlorobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,4-Dichlorobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Dichlorodifluoromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1-Dichloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dichloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1-Dichloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dichloroethene, Total	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002001** Date Collected: 11/1/2007 12:30 Matrix: Solid

Sample ID: **WADB-5 (7.5)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
cis-1,2-Dichloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
trans-1,2-Dichloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Dichlorofluoromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,3-Dichloropropane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2,2-Dichloropropane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dichloropropane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1-Dichloropropene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
cis-1,3-Dichloropropene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
trans-1,3-Dichloropropene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,3-Dichloropropene, Total	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Diisobutylene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Diisopropyl ether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,4-Dioxane	ND		ug/kg	15600	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethyl Ether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethyl Methacrylate	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethyl Acetate	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethyl tert-butyl ether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethylbenzene	655		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Freon 113	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Heptane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Hexachlorobutadiene	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Hexachloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Hexane	607		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2-Hexanone	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Iodomethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Isobutyl alcohol	ND		ug/kg	3660	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Isopropyl Alcohol	ND		ug/kg	1220	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Isopropylbenzene	69.0		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
p-Isopropyltoluene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methacrylonitrile	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methyl methacrylate	ND		ug/kg	146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methyl acetate	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methyl cyclohexane	418		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methyl t-Butyl Ether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methylene Chloride	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Naphthalene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Nitrobenzene	ND		ug/kg	4880	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2-Nitropropane	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Octane	393		ug/kg	146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Pentane	585		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
n-Propanol	ND		ug/kg	29300	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Propionitrile	ND		ug/kg	488	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
n-Propylbenzene	212		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Styrene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1,1,2-Tetrachloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002001** Date Collected: 11/1/2007 12:30 Matrix: Solid

Sample ID: **WADB-5 (7.5)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
1,1,2,2-Tetrachloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Tetrachloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Tetrahydrofuran	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Toluene	1980		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Total Xylenes	1470		ug/kg	146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2,3-Trichlorobenzene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2,4-Trichlorobenzene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1,1-Trichloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1,2-Trichloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Trichloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Trichlorofluoromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2,3-Trichloropropane	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2,4-Trimethylbenzene	642		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,3,5-Trimethylbenzene	106		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Vinyl Acetate	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Vinyl Chloride	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
o-Xylene	245		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
mp-Xylene	1220		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
1,2-Dichloroethane-d4 (S)	97		%	71-146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
4-Bromofluorobenzene (S)	88		%	46-138	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Dibromofluoromethane (S)	96		%	42-143	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Toluene-d8 (S)	98		%	54-141	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
WET CHEMISTRY											
Moisture	12.5		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	D	
Total Solids	87.5		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	D	

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002002** Date Collected: 11/1/2007 12:45 Matrix: Solid

Sample ID: **WADB-5 (11)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
VOLATILE ORGANICS											
Acetone	ND		ug/kg	518	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Acetonitrile	ND		ug/kg	1040	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Acrolein	ND		ug/kg	1300	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Acrylonitrile	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert-Amyl methyl ether	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert-Amyl Alcohol	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert-Amyl Ethylether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Benzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Benzyl Chloride	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromochloromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromodichloromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromoform	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromomethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2-Butanone	ND		ug/kg	518	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert.- Butyl Alcohol	ND		ug/kg	518	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
n-Butylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert-Butylbenzene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
sec-Butylbenzene	185		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Carbon Disulfide	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Carbon Tetrachloride	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chlorobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chlorodibromomethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2-Chloroethylvinyl ether	ND		ug/kg	155	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chloroform	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1-Chlorohexane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chloromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chloroprene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
3-Chloro-1-propene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
o-Chlorotoluene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
p-Chlorotoluene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Cyclohexane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dibromo-3-chloropropane	ND		ug/kg	363	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dibromoethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Dibromomethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
trans-1,4-Dichloro-2-butene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dichlorobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,3-Dichlorobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,4-Dichlorobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Dichlorodifluoromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1-Dichloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dichloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1-Dichloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dichloroethene, Total	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002002** Date Collected: 11/1/2007 12:45 Matrix: Solid

Sample ID: **WADB-5 (11)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
cis-1,2-Dichloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
trans-1,2-Dichloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Dichlorofluoromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,3-Dichloropropane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2,2-Dichloropropane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dichloropropane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1-Dichloropropene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
cis-1,3-Dichloropropene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
trans-1,3-Dichloropropene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,3-Dichloropropene, Total	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Diisobutylene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Diisopropyl ether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,4-Dioxane	ND		ug/kg	16600	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethyl Ether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethyl Methacrylate	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethyl Acetate	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethyl tert-butyl ether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Freon 113	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Heptane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Hexachlorobutadiene	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Hexachloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Hexane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2-Hexanone	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Iodomethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Isobutyl alcohol	ND		ug/kg	3890	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Isopropyl Alcohol	ND		ug/kg	1300	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Isopropylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
p-Isopropyltoluene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methacrylonitrile	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methyl methacrylate	ND		ug/kg	155	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methyl acetate	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methyl cyclohexane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methyl t-Butyl Ether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methylene Chloride	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Naphthalene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Nitrobenzene	ND		ug/kg	5180	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2-Nitropropane	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Octane	ND		ug/kg	155	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Pentane	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
n-Propanol	ND		ug/kg	31100	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Propionitrile	ND		ug/kg	518	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
n-Propylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Styrene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1,1,2-Tetrachloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002002** Date Collected: 11/1/2007 12:45 Matrix: Solid

Sample ID: **WADB-5 (11)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
1,1,2,2-Tetrachloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Tetrachloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Tetrahydrofuran	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Toluene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Total Xylenes	ND		ug/kg	155	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2,3-Trichlorobenzene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2,4-Trichlorobenzene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1,1-Trichloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1,2-Trichloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Trichloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Trichlorofluoromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2,3-Trichloropropane	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2,4-Trimethylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,3,5-Trimethylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Vinyl Acetate	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Vinyl Chloride	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
o-Xylene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
mp-Xylene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
1,2-Dichloroethane-d4 (S)	100		%	71-146	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
4-Bromofluorobenzene (S)	93		%	46-138	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Dibromofluoromethane (S)	100		%	42-143	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Toluene-d8 (S)	98		%	54-141	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
WET CHEMISTRY											
Moisture	20.8		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	D	
Total Solids	79.2		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	D	

Sample Comments:

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by the level of non-target compounds.

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002003** Date Collected: 11/1/2007 14:45 Matrix: Solid

Sample ID: **E-SS5 (4)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	4.4		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
Total Solids	95.6		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
METALS											
Arsenic, Total	ND		mg/kg	7	SW846 6010B	11/5/07	MNP	11/5/07 20:45	JVU	A1	
Lead, Total	46		mg/kg	6	SW846 6010B	11/5/07	MNP	11/5/07 20:45	JVU	A1	

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002004** Date Collected: 11/1/2007 15:24 Matrix: Solid

Sample ID: **E-SS8 (4)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	6.7		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
Total Solids	93.3		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
METALS											
Arsenic, Total	22		mg/kg	10	SW846 6010B	11/5/07	MNP	11/5/07 23:27	JVU	A1	
Lead, Total	129		mg/kg	8	SW846 6010B	11/5/07	MNP	11/5/07 20:59	JVU	A1	

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002005** Date Collected: 11/1/2007 15:30 Matrix: Solid

Sample ID: **E-SS9 (4)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	21.3		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
Total Solids	78.7		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
METALS											
Arsenic, Total	ND		mg/kg	12	SW846 6010B	11/5/07	MNP	11/5/07 21:04	JVU	A1	
Lead, Total	102		mg/kg	10	SW846 6010B	11/5/07	MNP	11/5/07 21:04	JVU	A1	

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002006** Date Collected: 11/1/2007 15:55 Matrix: Solid

Sample ID: **E-SS10 (4)** Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	16.9		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
Total Solids	83.1		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
METALS											
Arsenic, Total	10		mg/kg	3	SW846 6010B	11/5/07	MNP	11/5/07 21:09	JVU	A1	
Lead, Total	84		mg/kg	2	SW846 6010B	11/5/07	MNP	11/5/07 18:13	JVU	A1	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

9710002

1 of 1

Client Name: ARM GROUP
Address: 1129 W. GOVERNOR RD. Hershey, PA
Contact: STEVE FULTON
Phone#: 717-533-8600 x113
Project Name/#: NWT 107214
Bill To: STEVE FULTON
TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges.
Date Required: 11/9/07 Approved By:
Email? [ ] -Y
Fax? [ ] -Y No.:

***Container Type			Soil	Soil											
***Container Size			4oz	4oz											
*** Preservative			—	—											
ANALYSES/METHOD REQUESTED															
Sample Description/Location (as it will appear on the lab report)	Sample Date	Military Time	*G=Grab C=Comp	**Matrix all Soil	Enter Number of Containers Per Analysis Requested or Field Results Below.										
1 WADB-5 (7.5')	11/1/07	1230	G	S	1	3									
2 WADB-5 (11')	11/1/07	1245	G	S	1	3									
3 E-555 (4')	11/1/07	1445	G	S				1							
4 E-558 (4')	11/1/07	1524	G	S				1							
5 E-559 (4')	11/1/07	1530	G	S				1							
6 E-5510 (4')	11/1/07	1555	G	S				1							
7															
8															
9															
10															

BTEX, T, T
Arsenic + Lead (Pb) (As)
RUSH

Receipt Information (completed by Receiving Lab)
Cooler Temp: 7° Therm. ID: 51023559
No. of Coolers: ____

	Y	N	Initial
Custody Seals Present?		✓	KDW
(If present) Seals Intact?			
Received on Ice?	✓		
COC/Labels Complete/Accurate?	✓		
Cont. in Good Cond.?	✓		
Correct Containers?	✓		
Correct Sample Volumes?	✓		
Correct Preservation?	✓		
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments
→ NEED BY 11/9/07.
Benzene, Toluene, Ethylbenzene, Xylenes
- Contact Steve Fulton if questions

SAMPLED BY (Please Print): STEVE FULTON
LOGGED BY(signature): DATE 11/2/07 TIME 2003
REVIEWED BY(signature): DATE 11-5-07 TIME 1022

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] / ARM	11/2/07	1900	2 [signature] ALSI	11/2	1900
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
State Samples Collected In: NC [ ] NJ [ ] NY [ ] PA [ ]
SDWA Forms Required? yes [ ] yes [ ] yes [ ] yes [ ]
ALSI Field Services: [ ] Pickup [ ] Labor [ ] Composite Samolino [ ] Rental Equipment [ ] Other:
EDDs Required? [ ] If yes, format type:
Other
PWSID
DOD Criteria Required?

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE-ORIGINAL CANARY-CUSTOMER COPY

Rev 5/06

Analytical Laboratory Services, Inc.
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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9779604**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 13, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Thursday, March 12, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

ANALYTICAL LABORATORY SERVICES, INC.
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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

SAMPLE SUMMARY

Workorder: 9779604 NWT-YORK Discard Date: 03/27/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9779604001	Trestle South-S1[5]3-09	Solid	3/12/09 00:00	3/12/09 17:13	Dan Buterbaugh
9779604002	Trestle South-S2[5]3-09	Solid	3/12/09 00:00	3/12/09 17:13	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9779604 NWT-YORK

Lab ID: **9779604001** Date Collected: 3/12/2009 00:00 Matrix: Solid

Sample ID: **Trestle South-S1[5]3-09** Date Received: 3/12/2009 17:13

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	17.3		%	0.1	SM20-2540 G			3/13/09 00:00	EL	A
Total Solids	82.7		%	0.1	SM20-2540 G			3/13/09 00:00	EL	A
METALS										
Arsenic, Total	18.5		mg/kg	3.2	SW846 6010C	3/13/09	SRT	3/13/09 05:27	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779604 NWT-YORK

Lab ID: **9779604002** Date Collected: 3/12/2009 00:00 Matrix: Solid

Sample ID: **Trestle South-S2[5]3-09** Date Received: 3/12/2009 17:13

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	16.1		%	0.1	SM20-2540 G			3/13/09 00:00	EL	A
Total Solids	83.9		%	0.1	SM20-2540 G			3/13/09 00:00	EL	A
METALS										
Arsenic, Total	16.7		mg/kg	3.4	SW846 6010C	3/13/09	SRT	3/13/09 05:47	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

APPENDIX C

Soil Boring and Well Logs

ARM Group Inc.
Earth Resource Engineers and Consultants
1129 West Governor Road • Hershey, PA 17033-0797
(717) 533-8600 fax: (717) 533-8605

Monitoring Well: MW-1S

(1 of 2)

Client	: Northwest Triangle
ARM Project	: 07214
Township	: York City
County, State	: York, PA
ARM Representative	: DOB
Checked By	:
Drilling Company	: Eichelbergers
Driller	: Justin Trish

Drilling Equipment	: Schramm Air Rotary
Borehole Diameter	: 6"
Casing Diameter	: 2"
Date Started	: 1/3/08
Date Completed	: 1/4/08
Weather	: 20's, sunny
0 hr Depth to GW	: NA
24 hr Depth to GW	: 38'

Depth (ft.)	Surface Elev.(ft.)	Description	Graphic	Well: MW-1S TOC Elev.:	Remarks
0		0.0 - 2.0': Fill, gravel, railroad ties.		locking cap 4" steel manway	
		2.0 - 12.5': Sandy CLAY, brown, moist.			PID reading = 0 ppm at 5' PID reading = 0.1 ppm at 7'
5					
10				PVC riser 6" borehole cement grout	TOR at 12.5'
		12.5' - 48.0': Limestone, blue to gray.			
15					
20					
25					

09-10-2009 T:\07214 NWT Act 2 Project_Logs\MW-1S.bor

Monitoring Well: MW-1S

(2 of 2)

Client	: Northwest Triangle
ARM Project	: 07214
Township	: York City
County, State	: York, PA
ARM Representative	: DOB
Checked By	:
Drilling Company	: Eichelbergers
Driller	: Justin Trish

Drilling Equipment	: Schramm Air Rotary
Borehole Diameter	: 6"
Casing Diameter	: 2"
Date Started	: 1/3/08
Date Completed	: 1/4/08
Weather	: 20's, sunny
0 hr Depth to GW	: NA
24 hr Depth to GW	: 38'

Depth (ft.)	Surface Elev.(ft.)	Description	Graphic	Well: MW-1S TOC Elev.:	Remarks
26				PVC riser bentonite	
31					
36				6" borehole sand pack PVC screen	
41					
46		End of Boring at 48.0'			
51					

09-10-2009 T:\07214 NWT Act 2 Project_Logs\MW-1S.bor

ARM Group Inc.
Earth Resource Engineers and Consultants
1129 West Governor Road • Hershey, PA 17033-0797
(717) 533-8600 fax: (717) 533-8605

Monitoring Well: MW-2S

(1 of 1)

Client	: Northwest Triangle
ARM Project	: 07214
Township	: York City
County, State	: York, PA
ARM Representative	: DOB
Checked By	:
Drilling Company	: Eichelbergers
Driller	: Justin Trish

Drilling Equipment	: Schramm Air Rotary
Borehole Diameter	: 6"
Casing Diameter	: 2"
Date Started	: 1/3/08
Date Completed	: 1/3/08
Weather	: 20's, sunny
0 hr Depth to GW	: 13.5' TOG
24 hr Depth to GW	: 13.40' TOC

Depth (ft.)	Surface Elev.(ft.)	Description	Graphic	Well: MW-2S TOC Elev.:	Remarks
0		0.0 - 9.0': Fill, brown to red to gray, sandy clay, moist, brick, gravel, railroad ties.		locking cap 4" steel manway	
5				cement grout PVC riser	PID reading = 0 ppm at 5'
10		9.0 - 22.0': Sandy CLAY, brown, moist to wet.		bentonite 6" borehole	PID reading = 0 ppm at 9' Void from 14' to 17' Wet at 17' Odor at 17'
15					
20		22.0 - 25.0': Limestone, blue to gray.		sand pack PVC screen	TOR at 22'
25		End of Boring at 25.0'			

09-10-2009 T:\07214 NWT Act 2 Project_Logs\MW-2S.bor

WEAVER'S AUTO BODY

NORTHWEST TRIANGLE INITIATIVE, CITY OF YORK, YORK COUNTY, PENNSYLVANIA

Project: Northwest Triangle
Location: City of York, York County, Pennsylvania
Date: July 19-20, 2007

ARM Project: 07214
ARM Rep.: D. Buterbaugh/J. Janeck
Excavation Contractor: ARM Group

BORING ID AND SUMMARY DESCRIPTION OF SUBSURFACE

Depth	D-SB1	PID	D-SB2	PID	D-SB3	PID	D-SB4	PID	D-SB5	PID	Depth
0	**0.0 - 7.0': Gravelly SAND (SW),** brown, pieces of brick, dry, loose.	0	**0.0 - 7.75': Silty GRAVEL with Sand (GW),** yellowish brown to orange, loose, dry, cinders, brick.	0	**0.0 - 7.5': Silty GRAVEL with Sand (GW)**, yellowish brown to orange, loose, dry, cinders, brick.	0	**0.0 - 5.5': Sandy SILT with Gravel (ML)**, yellowish brown to gray, soft, moist, non-plastic.	0	**0.0 - 2.5': Silty GRAVEL with Sand (GW)**, yellowish brown to gray, looe, cinders, brick.	0	0
1		0		0		0		0		0	1
2		0		0		0		0		0	2
3		0		0		0		0	**2.5' - 7.0': Sandy SILT with Gravel (ML), yellowish brown to gray, medium dense, moist, non-plastic, mottled from 2.5 to 4.0',**	0	3
4		0		0		0		0		77 100	4
5		0		0		0		0		125	5
6		0		0		0	**5.5 - 8.0': Silty CLAY (CL)**, light orangish brown with brown mottles, soft, low plasticity, few sand, trace gravel, wet at 7.75'.	0		150	6
7	**7.0 - 8.0': Sandy GRAVEL (GW)**, loose, moist, some silt.	0		0		0		0	**7.0 - 8.0': Sandy SILT with Gravel (SW)**, yellowish brown to black, medium dense, moist, some coal.	180	7
8	**8.0 - 11.0': Sandy SILT (ML)**, orangish-brown, medium stiff, moist, non-plastic, dark brown mottles.	0	**7.75 - 12.0': SILT(ML)**, yellowish brown with dark brown mottles to dark gray, soft, moist, non-plastic, lttle to trace sand.	0	**7.5 - 9.5': Sandy SILT with Gravel (ML)**, yellowish brown, soft, moist, non-plastic.	0					8
9		0		0		0					9
10		0		0	**9.5 - 12.0': SILT and Fine SAND (ML/SP)**, yellowish brown with dark brown mottles, medium stiff, moist, non-plastic, trace clay.	0					10
11				0		0					11
12					**12.0-12.5': SILTSTONE gravel**	0					12
Termination Depth (bgs)	**11.0'**		**12.0'**		**12.5'**		**8.0'**		**8.0'**		**Termination Depth (bgs)**
Notes	**Not sampled**		**Sampled at 11.5' - 12.0'**		**Not sampled**		**Not sampled**		**Sampled at 7.5' - 8.0'**		**Notes**
Depth to Groundwater	**NE**		**NE**		**NE**		**NE**		**NE**		**Depth to Groundwater**

Note: All depths referenced as approximate depth below the existing surface (bgs)
[ML] - USCS symbol
NE - not encountered
PID = Photo-ionization Detector
PID results in parts per million

WEAVER'S AUTO BODY

NORTHWEST TRIANGLE INITIATIVE, CITY OF YORK, YORK COUNTY, PENNSYLVANIA

Project: Northwest Triangle
Location: City of York, York County, Pennsylvania
Date: July 19-20, 2007

ARM Project: 07214
ARM Rep.: D. Buterbaugh/J. Janick
Excavation Contractor: ARM Group

BORING ID AND SUMMARY DESCRIPTION OF SUBSURFACE

Depth	D-SB6	PID	D-SB7	PID	D-SB8	PID	Depth
0	**0.0 - 4.0': Silty GRAVEL with Sand (GW)**, yellowish brown to black, dry to moist, loose, pieces of brick and coal fragments, petroleum odor.	0	**0.0 - 0.3': Concrete**	0	**0.0 - 0.3': Concrete**	0	0
1		0	**0.3' - 4.0': Silty GRAVEL with Sand (GW)**, dark yellowish brown to black, loose, moist, coal fragments, waste oil odor.		**0.3' - 4.0': SILT and GRAVEL with Sand (ML/GW)**, dark yellowish brown to black, loose, moist, pieces of coal, waste oil odor.	0	1
2		0				0	2
3		0		20		0	3
4	**4.0 - 5.5': Sandy SILT (ML)**, yellowish brown, medium stiff, moist, non-plastic, some gravel, black mottles throughout, petroleum odor.	0					4
5		0					5
6	**5.5 - 7.0': Clayey SILT (ML)**, yellowish brown with dark gray staining, soft to medium dense, moist, few gravel, petroleium odor.	0					6
7	**7.0 - 8.0': Sandy SILT (ML)**, yellowish brown, loose to medium dense, moist, non-plastic, few gravel, slight petroleum odor.	0					7
8							8
Termination Depth (bgs)	**8.0'**		**4.0'**		**4.0'**		**Termination Depth (bgs)**
Notes	**Sampled at 6.0' - 6.5'**		**Sampled at 4.0' - 4.5'**		**Sampled at 4.0' - 4.5'**		**Notes**
Depth to Groundwater	**NE**		**NE**		**NE**		**Depth to Groundwater**

Note: All depths referenced as approximate depth below the existing surface (bgs)

[ML] - USCS symbol

NE - not encountered

PID = Photo-ionization Detector
PID results in parts per million

WEAVER'S AUTO BODY

NORTHWEST TRIANGLE INITIATIVE, CITY OF YORK, YORK COUNTY, PENNSYLVANIA

Project: Northwest Triangle
Location: City of York, York County, Pennsylvania
Date:

ARM Project: 07214
ARM Rep.: S. Fulton/C. Iozza
Excavation Contractor: ARM Group

BORING ID AND SUMMARY DESCRIPTION OF SUBSURFACE

Depth	WADB-1	PID	WADB-2	PID	WADB-3	PID	WADB-4	PID	WADB-5	PID	WADB-6	PID	Depth
0	GRAVEL and Stone	0	GRAVEL and Stone with silt	0	GRAVEL	0	GRAVEL	0	GRAVEL	0	GRAVEL, fill, brick.	0	0
1	Silty SAND	0		0		0		0		0		0	1
2	Black sandy GRAVEL (coal fines)	0	Ash and Stone	0	SILT, fill, black ash, brown brick.	0	SILT, fill, black ash, brown brick.	0		0		0	2
3		0	SILT, black, coal fines.	0		0		0		0		0	3
4		0	Gravelly CLAY, brown.	0		0		0	SILT, fill, gasoline odor.	0	CLAY	0.7	4
5		0		0		0		0		0	CINDERS, black.	0	5
6	CLAY, brown, moist.	0		0		0		0		5	CLAY, brown.	0	6
7		0	CLAY, brown, moist with depth.	0	CLAY, brown, soft, moist.	0	CLAY, brown, soft, moist.	0				0	7
8		0		0		0		0		7		0	8
9						0		0				0	9
10					QUARTZITE		QUARTZITE		CLAY, Gravelly, gasoiline odor at 12'				10
11					CLAY, brown, soft, moist.	0	CLAY, brown, soft, moist.	0					11
12										50			12
Termination Depth (bgs)	8.0'		8.0'		12.0'		12.0'		13.0'		10.0'		Termination Depth (bgs)
Notes	Sampled at 7.5' - 8.0'		Sampled at 7.5' - 8.0'		Not sampled		Not sampled		Refusal on Limestone at 13.0'. Sampled at 7.5'-8.0' and 11'-11.5'		Not sampled		Notes
Depth to Groundwater	NE		NE		Saturated soils at 10'		Saturated soils at 10'		Saturated soils at 10'		NE		Depth to Groundwater

Note: All depths referenced as approximate depth below the existing surface (bgs)
NE - not encountered
PID = Photo-ionization Detector
PID results in parts per million

APPENDIX D

Attainment Laboratory Analytical Results

ANALYTICAL LABORATORY SERVICES, INC.
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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9778210**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/04/09)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 6, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, March 04, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

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Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

SAMPLE SUMMARY

Workorder: 9778210 NWT-YORK (03/04/09) Discard Date: 03/20/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9778210001	York Rail S-1	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210002	York Rail S-2	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210003	York Rail S-3	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210004	York Rail S-4	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210005	York Rail S-5	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210006	York Rail S-6	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210007	York Rail S-7	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210008	York Rail S-8	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210009	York Rail S-9	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210010	York Rail S-10	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210011	York Rail S-11	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick
9778210012	York Rail S-12	Solid	3/4/09 14:00	3/4/09 15:40	Joe Janick

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210001** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-1** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	12.6		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	87.4		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	6.7		mg/kg	2.9	SW846 6010C	3/5/09	MNP	3/6/09 02:52	SRT	A
Lead, Total	22.7		mg/kg	1.9	SW846 6010C	3/5/09	MNP	3/6/09 02:52	SRT	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210002** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-2** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	13.9		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	86.1		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	11.6		mg/kg	3.5	SW846 6010C	3/5/09	MNP	3/6/09 02:56	SRT	A
Lead, Total	29.2		mg/kg	2.3	SW846 6010C	3/5/09	MNP	3/6/09 02:56	SRT	A

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210003** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-3** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	22.3		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	77.7		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	9.6		mg/kg	3.6	SW846 6010C	3/5/09	MNP	3/6/09 03:00	SRT	A
Lead, Total	229		mg/kg	2.4	SW846 6010C	3/5/09	MNP	3/6/09 03:00	SRT	A

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210004** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-4** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	27.5		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	72.5		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	15.8		mg/kg	4.1	SW846 6010C	3/5/09	MNP	3/6/09 03:04	SRT	A
Lead, Total	269		mg/kg	2.7	SW846 6010C	3/5/09	MNP	3/6/09 03:04	SRT	A

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210005** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-5** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	16.4		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	83.6		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	10.5		mg/kg	3.1	SW846 6010C	3/5/09	MNP	3/6/09 03:08	SRT	A
Lead, Total	305		mg/kg	2.1	SW846 6010C	3/5/09	MNP	3/6/09 03:08	SRT	A

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210006** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-6** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	17.6		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	82.4		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	8.4		mg/kg	3.4	SW846 6010C	3/5/09	MNP	3/6/09 03:19	SRT	A
Lead, Total	149		mg/kg	2.2	SW846 6010C	3/5/09	MNP	3/6/09 03:19	SRT	A

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210007** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-7** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	13.4		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	86.6		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	9.7		mg/kg	3.1	SW846 6010C	3/5/09	MNP	3/6/09 03:23	SRT	A
Lead, Total	123		mg/kg	2.1	SW846 6010C	3/5/09	MNP	3/6/09 03:23	SRT	A

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210008** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-8** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	22.9		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	77.1		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	10.9		mg/kg	3.5	SW846 6010C	3/5/09	MNP	3/6/09 03:27	SRT	A
Lead, Total	24.3		mg/kg	2.3	SW846 6010C	3/5/09	MNP	3/6/09 03:27	SRT	A

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210009** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-9** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	21.7		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	78.3		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	8.6		mg/kg	3.4	SW846 6010C	3/5/09	MNP	3/6/09 03:31	SRT	A
Lead, Total	228		mg/kg	2.3	SW846 6010C	3/5/09	MNP	3/6/09 03:31	SRT	A

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210010** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-10** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	14.9		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	85.1		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	6.4		mg/kg	2.9	SW846 6010C	3/5/09	MNP	3/6/09 03:35	SRT	A
Lead, Total	130		mg/kg	2.0	SW846 6010C	3/5/09	MNP	3/6/09 03:35	SRT	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210011** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-11** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	13.7		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	86.3		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	8.8		mg/kg	3.0	SW846 6010C	3/5/09	MNP	3/6/09 03:38	SRT	A
Lead, Total	53.4		mg/kg	2.0	SW846 6010C	3/5/09	MNP	3/6/09 03:38	SRT	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778210 NWT-YORK (03/04/09)

Lab ID: **9778210012** Date Collected: 3/4/2009 14:00 Matrix: Solid

Sample ID: **York Rail S-12** Date Received: 3/4/2009 15:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	14.9		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
Total Solids	85.1		%	0.1	SM20-2540 G			3/4/09 00:37	JEP	A
METALS										
Arsenic, Total	10.6		mg/kg	3.3	SW846 6010C	3/5/09	MNP	3/6/09 03:42	SRT	A
Lead, Total	94.5		mg/kg	2.2	SW846 6010C	3/5/09	MNP	3/6/09 03:42	SRT	A

Sample Comments:

Anna G Milliken
Laboratory Manager

Report ID: 9778210

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 2

Courier:

Tracking #:

9778210

Co. Name: ARM Group

Contact (Report to): Steve Fulton Phone: 717-533-8600

Address: 1129 W. Governor Rd, Hershey, PA 17033

Bill to (if different than Report to): PO#:

Project Name/#: York NWT/07214 ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required: 03/06/09

[X] Rush-Subject to ALSI approval and surcharges. 48-hr Approved By:

Email? [X] Y sfulton@armgroup.net

Fax? [ ] Y No:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1 York Rail S-1		3/4/09	1140	G	SO	1
2 York Rail S-2						1
3 York Rail S-3						1
4 York Rail S-4						1
5 York Rail S-5						1
6 York Rail S-6						1
7 York Rail S-7						1
8 York Rail S-8						1

***Container Type: AG
***Container Size: 8oz
***Preservative: None
ANALYSES/METHOD REQUESTED: Pb, As, TS

Receipt Information (completed by field/lab personnel): Performed by: Initial here

Cooler Temp: 7

Therm. ID: IR#3

No. of Coolers:

Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	HeadspaceVolatiles?	Circle appropriate Y or N.
Y	N	N	N	Y	
N	Y	Y	Y	N	

	Custody seals Present?	(if present) Seals intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
Y	Y				
N	N	N	N	N	

SAMPLED BY (Please Print): Joe Janicki

LOGGED BY (signature): DATE 3/4/09 TIME 2044

REVIEWED BY (signature): DATE 03/05/09 TIME 2144

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Joe Janicki / ARM	3/4/09	1540	2	3/4	1540
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other:

EDDs Required? [ ] If yes, format type:

SDWA Forms?⇨ yes [ ]

State Samples Collected in? MD [ ] NJ [ ] NY [ ] PA [ ] Other

Electronic Data Deliverable (EDD) Format

DOD Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 6/07

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Report ID: 9778210

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier:

Tracking #:

COC# 9778210

Co. Name: ARM Group

Contact (Report to): Steve Felton Phone: 717-533-8600

Address: 1129 W. Governor Rd
Hershey, PA 17033

Bill to (if different than Report to): PO#:

Project Name/#: York NWT/07214 ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALSI approval and surcharges. 48-hr Approved By:

Email? [X] Y sfelton@armgroup.net
Fax? [ ] Y No.

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1 York Rail S-9		3/4/09	1400	G	SO	1
2 York Rail S-10		3/4/09	1400	G	SO	1
3 York Rail S-11		3/4/09	1400	G	SO	1
4 York Rail S-12		3/4/09	1400	G	SO	1
5						
6						
7						
8						

***Container Type: AG
***Container Size: 8oz
***Preservative: None

ANALYSES/METHOD REQUESTED: Pb, As, TS

Receipt Information (completed by Sample Receiving)
Performed by:
Cooler Temp:
Therm. ID: 7435
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	Y	Y	Y	Y	
	N	N	N	N	N

	Custody seals Present?	(if present) Seals intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
	Y	Y	Y	Y	Y
	N	N	N	N	N

SAMPLED BY (Please Print): Joe Janick

LOGGED BY(signature): DATE 3/4/09 TIME 2111

REVIEWED BY(signature): DATE 03/05/09 TIME 2444

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Joe Janick / ARM	3/4/09	1540	2	3/4/09	1540
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

EDDs Required? [ ] If yes, format type:

SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ] Other

DOD Criteria Required?

ALSI FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Oi=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9780094**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/16/09)**

Mr. Steve Fulton
ARM Group
1129 W. Governor Road
PO Box 797
Hershey, PA 17033

March 18, 2009

Dear Mr. Fulton,

Enclosed are the analytical results for samples received by the laboratory on Monday, March 16, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Mr. Dan Buterbaugh

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder 9780094 NWT-YORK (03/16/09) Discard Date: 04/01/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9780094001	York Rail-X1 [9]3-09	Solid	3/16/09 07:30	3/16/09 18:00	Dan Buterbaugh
9780094002	York Rail-X2 [6]3-09	Solid	3/16/09 07:35	3/16/09 18:00	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

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J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
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MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9780094 NWT-YORK (03/16/09)

Lab ID: **9780094001** Date Collected: 3/16/2009 07:30 Matrix: Solid

Sample ID: **York Rail-X1 [9]3-09** Date Received: 3/16/2009 18:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	12.7		%	0.1	SM20-2540 G			3/17/09 06:55	EL	A
Total Solids	87.3		%	0.1	SM20-2540 G			3/17/09 06:55	EL	A
METALS										
Arsenic, Total	53.7		mg/kg	3.2	SW846 6010C	3/17/09	MNP	3/17/09 14:21	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9780094 NWT-YORK (03/16/09)

Lab ID: **9780094002** Date Collected: 3/16/2009 07:35 Matrix: Solid

Sample ID: **York Rail-X2 [6]3-09** Date Received: 3/16/2009 18:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	12.0		%	0.1	SM20-2540 G			3/17/09 06:55	EL	A
Total Solids	88.0		%	0.1	SM20-2540 G			3/17/09 06:55	EL	A
METALS										
Arsenic, Total	37.3		mg/kg	2.9	SW846 6010C	3/17/09	MNP	3/17/09 14:25	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___
Courier:
Tracking #:

* 9 7 8 0 0 9 4 *

Co. Name: Arcn Group
Contact (Report to): D Butterbaugh/S Fulton Phone:
Address: Hershey PA

Bill to (if different than Report to): PO#:

Project Name/#: New York / 07214 ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges. Date Required: 3/18/07 Approved By:

Email? [X] Y dbutterbaugh@arcngroup.net
Fax? [ ] Y No: sfulton@arcngroup.net

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1 York Rail-X1(9")3-09		3/16/09	0730	G	S	1
2 York Rail-X2(6")3-09		"	0735	G	S	1
3						
4						
5						
6						
7						
8						

***Container Type: G
***Container Size: 4oz
***Preservative: —
ANALYSES/METHOD REQUESTED: Arsenic

(completed by Sample Receipter)
Performed by:
Cooler Temp: 18
Therm. ID: 5102355
No. of Coolers:
Notes:

Circle appropriate Y or N.	Container in good condition?	COC/Labels complete/accurate?	Received on ice?	Custody seals Present?	(if present) Seals intact?
	N	N	N	Y	Y
	N	N	N	Y	Y
Correct containers?	N				
Correct sample volume?	N				
Correct preservation?	Y				
Headspace/Volatiles?					

SAMPLED BY (Please Print): D Butterbaugh
LOGGED BY(signature): DATE 3/16/09 TIME 1850
REVIEWED BY(signature): DATE 03/17/09 TIME 0313

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	3/16/09	1800	2	3/16/09	1800
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
SDWA Forms? ⇨ yes [ ] Other ⇨ Enter PWSID No.
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
DOD Criteria Required?

ALSI FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Oi=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9779133**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/10/09)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 12, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, March 10, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9779133 NWT-YORK (03/10/09) Discard Date: 03/26/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9779133001	KCW2-S1[1']3-09	Solid	3/10/09 11:45	3/10/09 15:05	Dan Buterbaugh
9779133002	KCW2-S2[1']3-09	Solid	3/10/09 11:47	3/10/09 15:05	Dan Buterbaugh
9779133003	KCW2-S3[6"]3-09	Solid	3/10/09 11:49	3/10/09 15:05	Dan Buterbaugh
9779133004	KCW2-S4[6"]3-09	Solid	3/10/09 11:50	3/10/09 15:05	Dan Buterbaugh
9779133005	KCW2-S5[1']3-09	Solid	3/10/09 11:52	3/10/09 15:05	Dan Buterbaugh
9779133006	KCW2-S6[8"]3-09	Solid	3/10/09 11:54	3/10/09 15:05	Dan Buterbaugh
9779133007	KCW2-S7[1']3-09	Solid	3/10/09 11:57	3/10/09 15:05	Dan Buterbaugh
9779133008	KCW2-S8[1']3-09	Solid	3/10/09 11:59	3/10/09 15:05	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9779133 NWT-YORK (03/10/09)

Lab ID: **9779133001** Date Collected: 3/10/2009 11:45 Matrix: Solid

Sample ID: **KCW2-S1[1']3-09** Date Received: 3/10/2009 15:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	14.8		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
Total Solids	85.2		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
METALS										
Lead, Total	74.3		mg/kg	2.2	SW846 6010C	3/11/09	MNP	3/11/09 10:53	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779133 NWT-YORK (03/10/09)

Lab ID: **9779133002** Date Collected: 3/10/2009 11:47 Matrix: Solid

Sample ID: **KCW2-S2[1']3-09** Date Received: 3/10/2009 15:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	12.1		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
Total Solids	87.9		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
METALS										
Lead, Total	32.1		mg/kg	2.3	SW846 6010C	3/11/09	MNP	3/11/09 10:58	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779133 NWT-YORK (03/10/09)

Lab ID: **9779133003** Date Collected: 3/10/2009 11:49 Matrix: Solid

Sample ID: **KCW2-S3[6"]3-09** Date Received: 3/10/2009 15:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	14.4		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
Total Solids	85.6		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
METALS										
Lead, Total	275		mg/kg	2.2	SW846 6010C	3/11/09	MNP	3/11/09 11:10	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779133 NWT-YORK (03/10/09)

Lab ID: **9779133004** Date Collected: 3/10/2009 11:50 Matrix: Solid

Sample ID: **KCW2-S4[6"]3-09** Date Received: 3/10/2009 15:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	21.0		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
Total Solids	79.0		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
METALS										
Lead, Total	144		mg/kg	2.4	SW846 6010C	3/11/09	MNP	3/11/09 11:14	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779133 NWT-YORK (03/10/09)

Lab ID: **9779133005** Date Collected: 3/10/2009 11:52 Matrix: Solid

Sample ID: **KCW2-S5[1']3-09** Date Received: 3/10/2009 15:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	19.8		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
Total Solids	80.2		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
METALS										
Lead, Total	75.2		mg/kg	2.3	SW846 6010C	3/11/09	MNP	3/11/09 11:18	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779133 NWT-YORK (03/10/09)

Lab ID: **9779133006** Date Collected: 3/10/2009 11:54 Matrix: Solid

Sample ID: **KCW2-S6[8"]3-09** Date Received: 3/10/2009 15:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.3		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
Total Solids	81.7		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
METALS										
Lead, Total	110		mg/kg	2.3	SW846 6010C	3/11/09	MNP	3/11/09 11:23	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779133 NWT-YORK (03/10/09)

Lab ID: **9779133007** Date Collected: 3/10/2009 11:57 Matrix: Solid

Sample ID: **KCW2-S7[1']3-09** Date Received: 3/10/2009 15:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	12.7		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
Total Solids	87.3		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
METALS										
Lead, Total	24.1		mg/kg	1.9	SW846 6010C	3/11/09	MNP	3/11/09 11:37	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779133 NWT-YORK (03/10/09)

Lab ID: **9779133008** Date Collected: 3/10/2009 11:59 Matrix: Solid

Sample ID: **KCW2-S8[1']3-09** Date Received: 3/10/2009 15:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	10.2		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
Total Solids	89.8		%	0.1	SM20-2540 G			3/11/09 07:14	EL	A
METALS										
Lead, Total	28.4		mg/kg	2.0	SW846 6010C	3/11/09	MNP	3/11/09 11:41	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

Report ID: 9779133

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier:
Tracking #: *9779133*

Co. Name: ARM Group
Contact (Report to): D Butebaugh / S Fulton
Phone:
Address: Hershey PA

Bill to (if different than Report to):
PO#:

Project Name/#: NLT York / 07214
ALSI Quote #:
TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges.
Date Required: 3/12/09
Approved By:
Email? [X] -Y dbutebaugh@armgroup.net
Fax? [ ] -Y No.: Shulton@armgroup.net

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Total Pb										
***Container Type						4oz										
***Container Size						G										
*** Preservative						—										
1 KCW2-S1(1')3-09	41	3/6/09	1145	G	S	1										
2 KCW2-S2(1')3-09	22		1147			1										
3 KCW2-S3(6")3-09	50		1149			1										
4 KCW2-S4(6")3-09	30		1150			1										
5 KCW2-S5(1')3-09	32		1152			1										
6 KCW2-S6(8")3-09	10		1154			1										
7 KCW2-S7(1')3-09	02		1157			1										
8 KCW2-S8(1')3-09	12		1159			1										

ANALYSES/METHOD REQUESTED
Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)
Performed by: MM Time: —
Cooler Temp: 10
Therm. ID: SIO2355
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	HeadspaceVolatiles?	Circle appropriate Y or N.
	N	N	N	N	
	Y	Y	Y	Y	N.
	N	N	N	N	N
	Y	Y	Y	Y	Y
	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?

SAMPLED BY (Please Print): D Butebaugh
LOGGED BY(signature): DATE: 3/10 TIME: 1058
REVIEWED BY(signature): DATE: 03/11/09 TIME: 1128

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	3/10/09	1505	2	3/10	1505
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ]
EDDs Required? [ ] If yes, format type:
SDWA Forms?: yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected in? MD [ ] NJ [ ] NY [ ] PA [ ] Other
DOD Criteria Required?

ALSI FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

*G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9779025**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/09/09)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 12, 2009

Dear Mr. Buterbaugh,

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Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

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Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9779025 NWT-YORK (03/09/09) Discard Date: 03/26/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9779025001	WAB-S1(7')3-09	Solid	3/9/09 10:28	3/10/09 06:25	Dan Buterbaugh
9779025002	WAB-S2(9')3-09	Solid	3/9/09 10:31	3/10/09 06:25	Dan Buterbaugh
9779025003	WAB-S3(7')3-09	Solid	3/9/09 10:35	3/10/09 06:25	Dan Buterbaugh
9779025004	WAB-S4(9')3-09	Solid	3/9/09 10:40	3/10/09 06:25	Dan Buterbaugh
9779025005	WAB-S5(7')3-09	Solid	3/9/09 10:42	3/10/09 06:25	Dan Buterbaugh
9779025006	WAB-S6(7')3-09	Solid	3/9/09 10:45	3/10/09 06:25	Dan Buterbaugh
9779025007	WAB-S7(9')3-09	Solid	3/9/09 10:48	3/10/09 06:25	Dan Buterbaugh
9779025008	WAB-S8(9')3-09	Solid	3/9/09 10:50	3/10/09 06:25	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
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-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
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PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9779025 NWT-YORK (03/09/09)

Lab ID: **9779025001** Date Collected: 3/9/2009 10:28 Matrix: Solid

Sample ID: **WAB-S1(7')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	112	8260/5035	3/10/09	MES	3/11/09 06:29	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91.2		%	71-146	8260/5035	3/10/09	MES	3/11/09 06:29	MES	B
4-Bromofluorobenzene (S)	76.4		%	46-138	8260/5035	3/10/09	MES	3/11/09 06:29	MES	B
Dibromofluoromethane (S)	95		%	42-143	8260/5035	3/10/09	MES	3/11/09 06:29	MES	B
Toluene-d8 (S)	109		%	54-141	8260/5035	3/10/09	MES	3/11/09 06:29	MES	B
WET CHEMISTRY										
Moisture	19.5		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	80.5		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779025 NWT-YORK (03/09/09)

Lab ID: **9779025002** Date Collected: 3/9/2009 10:31 Matrix: Solid

Sample ID: **WAB-S2(9')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	52.0	8260/5035	3/10/09	MES	3/11/09 06:56	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	84.7		%	71-146	8260/5035	3/10/09	MES	3/11/09 06:56	MES	B
4-Bromofluorobenzene (S)	73		%	46-138	8260/5035	3/10/09	MES	3/11/09 06:56	MES	B
Dibromofluoromethane (S)	88.1		%	42-143	8260/5035	3/10/09	MES	3/11/09 06:56	MES	B
Toluene-d8 (S)	105		%	54-141	8260/5035	3/10/09	MES	3/11/09 06:56	MES	B
WET CHEMISTRY										
Moisture	16.9		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	83.1		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779025 NWT-YORK (03/09/09)

Lab ID: **9779025003** Date Collected: 3/9/2009 10:35 Matrix: Solid

Sample ID: **WAB-S3(7')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	58.1	8260/5035	3/10/09	MES	3/11/09 07:23	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	81.1		%	71-146	8260/5035	3/10/09	MES	3/11/09 07:23	MES	B
4-Bromofluorobenzene (S)	69		%	46-138	8260/5035	3/10/09	MES	3/11/09 07:23	MES	B
Dibromofluoromethane (S)	87.2		%	42-143	8260/5035	3/10/09	MES	3/11/09 07:23	MES	B
Toluene-d8 (S)	102		%	54-141	8260/5035	3/10/09	MES	3/11/09 07:23	MES	B
WET CHEMISTRY										
Moisture	27.1		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	72.9		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779025 NWT-YORK (03/09/09)

Lab ID: **9779025004** Date Collected: 3/9/2009 10:40 Matrix: Solid

Sample ID: **WAB-S4(9')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	57.9	8260/5035	3/10/09	MES	3/11/09 07:50	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85.7		%	71-146	8260/5035	3/10/09	MES	3/11/09 07:50	MES	B
4-Bromofluorobenzene (S)	75.6		%	46-138	8260/5035	3/10/09	MES	3/11/09 07:50	MES	B
Dibromofluoromethane (S)	90.3		%	42-143	8260/5035	3/10/09	MES	3/11/09 07:50	MES	B
Toluene-d8 (S)	106		%	54-141	8260/5035	3/10/09	MES	3/11/09 07:50	MES	B
WET CHEMISTRY										
Moisture	13.8		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	86.2		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779025 NWT-YORK (03/09/09)

Lab ID: **9779025005** Date Collected: 3/9/2009 10:42 Matrix: Solid

Sample ID: **WAB-S5(7')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	54.2	8260/5035	3/10/09	MES	3/11/09 08:17	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	82.5		%	71-146	8260/5035	3/10/09	MES	3/11/09 08:17	MES	B
4-Bromofluorobenzene (S)	69.2		%	46-138	8260/5035	3/10/09	MES	3/11/09 08:17	MES	B
Dibromofluoromethane (S)	87.6		%	42-143	8260/5035	3/10/09	MES	3/11/09 08:17	MES	B
Toluene-d8 (S)	99.2		%	54-141	8260/5035	3/10/09	MES	3/11/09 08:17	MES	B
WET CHEMISTRY										
Moisture	20.9		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	79.1		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779025 NWT-YORK (03/09/09)

Lab ID: **9779025006** Date Collected: 3/9/2009 10:45 Matrix: Solid

Sample ID: **WAB-S6(7')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	54.1	8260/5035	3/10/09	MES	3/11/09 08:45	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	87.9		%	71-146	8260/5035	3/10/09	MES	3/11/09 08:45	MES	B
4-Bromofluorobenzene (S)	74.2		%	46-138	8260/5035	3/10/09	MES	3/11/09 08:45	MES	B
Dibromofluoromethane (S)	93.8		%	42-143	8260/5035	3/10/09	MES	3/11/09 08:45	MES	B
Toluene-d8 (S)	104		%	54-141	8260/5035	3/10/09	MES	3/11/09 08:45	MES	B
WET CHEMISTRY										
Moisture	19.1		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	80.9		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779025 NWT-YORK (03/09/09)

Lab ID: **9779025007** Date Collected: 3/9/2009 10:48 Matrix: Solid

Sample ID: **WAB-S7(9')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	63.2	8260/5035	3/10/09	MES	3/11/09 09:12	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	87.6		%	71-146	8260/5035	3/10/09	MES	3/11/09 09:12	MES	B
4-Bromofluorobenzene (S)	73.8		%	46-138	8260/5035	3/10/09	MES	3/11/09 09:12	MES	B
Dibromofluoromethane (S)	92.3		%	42-143	8260/5035	3/10/09	MES	3/11/09 09:12	MES	B
Toluene-d8 (S)	105		%	54-141	8260/5035	3/10/09	MES	3/11/09 09:12	MES	B
WET CHEMISTRY										
Moisture	17.1		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	82.9		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779025 NWT-YORK (03/09/09)

Lab ID: **9779025008** Date Collected: 3/9/2009 10:50 Matrix: Solid

Sample ID: **WAB-S8(9')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	73.8	8260/5035	3/10/09	MES	3/11/09 09:39	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88.5		%	71-146	8260/5035	3/10/09	MES	3/11/09 09:39	MES	B
4-Bromofluorobenzene (S)	72.1		%	46-138	8260/5035	3/10/09	MES	3/11/09 09:39	MES	B
Dibromofluoromethane (S)	93.1		%	42-143	8260/5035	3/10/09	MES	3/11/09 09:39	MES	B
Toluene-d8 (S)	106		%	54-141	8260/5035	3/10/09	MES	3/11/09 09:39	MES	B
WET CHEMISTRY										
Moisture	16.1		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	83.9		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9779024**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/09/09)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 12, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, March 10, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9779024 NWT-YORK (03/09/09) Discard Date: 03/26/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9779024001	WAB-X1(7')3-09	Solid	3/9/09 14:55	3/10/09 06:25	Dan Buterbaugh
9779024002	WAB-X2(9')3-09	Solid	3/9/09 14:59	3/10/09 06:25	Dan Buterbaugh
9779024003	WAB-X3(7')3-09	Solid	3/9/09 15:01	3/10/09 06:25	Dan Buterbaugh
9779024004	WAB-X4(9')3-09	Solid	3/9/09 15:03	3/10/09 06:25	Dan Buterbaugh
9779024005	WAB-X5(9')3-09	Solid	3/9/09 15:05	3/10/09 06:25	Dan Buterbaugh
9779024006	WAB-X6(9')3-09	Solid	3/9/09 15:07	3/10/09 06:25	Dan Buterbaugh
9779024007	WAB-X7(7')3-09	Solid	3/9/09 15:09	3/10/09 06:25	Dan Buterbaugh
9779024008	WAB-X8(9')3-09	Solid	3/9/09 15:11	3/10/09 06:25	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9779024 NWT-YORK (03/09/09)

Lab ID: **9779024001** Date Collected: 3/9/2009 14:55 Matrix: Solid

Sample ID: **WAB-X1(7')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	67.5	8260/5035	3/10/09	MES	3/11/09 02:53	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88.4		%	71-146	8260/5035	3/10/09	MES	3/11/09 02:53	MES	B
4-Bromofluorobenzene (S)	75.5		%	46-138	8260/5035	3/10/09	MES	3/11/09 02:53	MES	B
Dibromofluoromethane (S)	94		%	42-143	8260/5035	3/10/09	MES	3/11/09 02:53	MES	B
Toluene-d8 (S)	112		%	54-141	8260/5035	3/10/09	MES	3/11/09 02:53	MES	B
WET CHEMISTRY										
Moisture	22.1		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	77.9		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779024 NWT-YORK (03/09/09)

Lab ID: **9779024002** Date Collected: 3/9/2009 14:59 Matrix: Solid

Sample ID: **WAB-X2(9')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	80.7	8260/5035	3/10/09	MES	3/11/09 03:20	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	86		%	71-146	8260/5035	3/10/09	MES	3/11/09 03:20	MES	B
4-Bromofluorobenzene (S)	72.2		%	46-138	8260/5035	3/10/09	MES	3/11/09 03:20	MES	B
Dibromofluoromethane (S)	91.5		%	42-143	8260/5035	3/10/09	MES	3/11/09 03:20	MES	B
Toluene-d8 (S)	104		%	54-141	8260/5035	3/10/09	MES	3/11/09 03:20	MES	B
WET CHEMISTRY										
Moisture	23.1		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	76.9		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779024 NWT-YORK (03/09/09)

Lab ID: **9779024003** Date Collected: 3/9/2009 15:01 Matrix: Solid

Sample ID: **WAB-X3(7')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	61.9	8260/5035	3/10/09	MES	3/11/09 03:47	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85.4		%	71-146	8260/5035	3/10/09	MES	3/11/09 03:47	MES	B
4-Bromofluorobenzene (S)	73.1		%	46-138	8260/5035	3/10/09	MES	3/11/09 03:47	MES	B
Dibromofluoromethane (S)	89.7		%	42-143	8260/5035	3/10/09	MES	3/11/09 03:47	MES	B
Toluene-d8 (S)	108		%	54-141	8260/5035	3/10/09	MES	3/11/09 03:47	MES	B
WET CHEMISTRY										
Moisture	18.1		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	81.9		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779024 NWT-YORK (03/09/09)

Lab ID: **9779024004** Date Collected: 3/9/2009 15:03 Matrix: Solid

Sample ID: **WAB-X4(9')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	67.8	8260/5035	3/10/09	MES	3/11/09 04:14	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85.8		%	71-146	8260/5035	3/10/09	MES	3/11/09 04:14	MES	B
4-Bromofluorobenzene (S)	73.1		%	46-138	8260/5035	3/10/09	MES	3/11/09 04:14	MES	B
Dibromofluoromethane (S)	92.7		%	42-143	8260/5035	3/10/09	MES	3/11/09 04:14	MES	B
Toluene-d8 (S)	105		%	54-141	8260/5035	3/10/09	MES	3/11/09 04:14	MES	B
WET CHEMISTRY										
Moisture	20.6		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	79.4		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779024 NWT-YORK (03/09/09)

Lab ID: **9779024005** Date Collected: 3/9/2009 15:05 Matrix: Solid

Sample ID: **WAB-X5(9')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	80.5	8260/5035	3/10/09	MES	3/11/09 04:41	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	79.5		%	71-146	8260/5035	3/10/09	MES	3/11/09 04:41	MES	B
4-Bromofluorobenzene (S)	69.2		%	46-138	8260/5035	3/10/09	MES	3/11/09 04:41	MES	B
Dibromofluoromethane (S)	85.3		%	42-143	8260/5035	3/10/09	MES	3/11/09 04:41	MES	B
Toluene-d8 (S)	104		%	54-141	8260/5035	3/10/09	MES	3/11/09 04:41	MES	B
WET CHEMISTRY										
Moisture	26.8		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	73.2		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779024 NWT-YORK (03/09/09)

Lab ID: **9779024006** Date Collected: 3/9/2009 15:07 Matrix: Solid

Sample ID: **WAB-X6(9')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	69.0	8260/5035	3/10/09	MES	3/11/09 05:08	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	80		%	71-146	8260/5035	3/10/09	MES	3/11/09 05:08	MES	B
4-Bromofluorobenzene (S)	70.6		%	46-138	8260/5035	3/10/09	MES	3/11/09 05:08	MES	B
Dibromofluoromethane (S)	84.6		%	42-143	8260/5035	3/10/09	MES	3/11/09 05:08	MES	B
Toluene-d8 (S)	101		%	54-141	8260/5035	3/10/09	MES	3/11/09 05:08	MES	B
WET CHEMISTRY										
Moisture	24.2		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	75.8		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779024 NWT-YORK (03/09/09)

Lab ID: **9779024007** Date Collected: 3/9/2009 15:09 Matrix: Solid

Sample ID: **WAB-X7(7')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	61.3	8260/5035	3/10/09	MES	3/11/09 05:35	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85		%	71-146	8260/5035	3/10/09	MES	3/11/09 05:35	MES	B
4-Bromofluorobenzene (S)	71.9		%	46-138	8260/5035	3/10/09	MES	3/11/09 05:35	MES	B
Dibromofluoromethane (S)	89.7		%	42-143	8260/5035	3/10/09	MES	3/11/09 05:35	MES	B
Toluene-d8 (S)	105		%	54-141	8260/5035	3/10/09	MES	3/11/09 05:35	MES	B
WET CHEMISTRY										
Moisture	19.3		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	80.7		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779024 NWT-YORK (03/09/09)

Lab ID: **9779024008** Date Collected: 3/9/2009 15:11 Matrix: Solid

Sample ID: **WAB-X8(9')3-09** Date Received: 3/10/2009 06:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	61.9	8260/5035	3/10/09	MES	3/11/09 06:02	MES	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	86.5		%	71-146	8260/5035	3/10/09	MES	3/11/09 06:02	MES	B
4-Bromofluorobenzene (S)	72.1		%	46-138	8260/5035	3/10/09	MES	3/11/09 06:02	MES	B
Dibromofluoromethane (S)	93		%	42-143	8260/5035	3/10/09	MES	3/11/09 06:02	MES	B
Toluene-d8 (S)	107		%	54-141	8260/5035	3/10/09	MES	3/11/09 06:02	MES	B
WET CHEMISTRY										
Moisture	16.6		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A
Total Solids	83.4		%	0.1	SM20-2540 G			3/10/09 10:10	KMW	A

Sample Comments:

Anna G Milliken
Laboratory Manager

Report ID: 9779024

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Page 1 of 1

Courier:

Tracking #:

97790024

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Co. Name: ARM Groups
Contact (Report to): D Butterbaugh / S Fulton
Phone:
Address: Hershey PA

Bill to (if different than Report to):
PO#:

Project Name/#: NWT York / 07214
ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges.
Date Required: 3/11/09
Approved By:

Email? [X] -Y dbutterbaugh@armgroup.net
Fax? -Y No.: sfulton@armgroup.net

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis										
	***Container Type				G												
	***Container Size				8oz												
	*** Preservative				—												
	ANALYSES/METHOD REQUESTED						Benzene										
1	WAB-X1 (7') 3-09	05	3/9/09	1455	G	S	1										
2	WAB-X2 (9') 3-09	13		1459			1										
3	WAB-X3 (7') 3-09	03		1501			1										
4	WAB-X4 (9') 3-09	33		1503			1										
5	WAB-X5 (9') 3-09	11		1505			1										
6	WAB-X6 (9') 3-09	31		1507			1										
7	WAB-X7 (7') 3-09	01		1509			1										
8	WAB-X8 (9') 3-09	45		1511	↓	↓	1										

Receipt Information (completed by Sample Receiving)
Performed by: [illegible]
Cooler Temp: 6°C
Therm. ID: 5162358T
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	N	N	N	Y	
	N	N	N	N	N
	Y	Y	Y	Y	Y
	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?

SAMPLED BY (Please Print): D Butterbaugh
LOGGED BY(signature): DATE 3/10/09 TIME 0915
REVIEWED BY(signature): DATE 03/11/09 TIME 0922

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	3/10/09	1625	2	03/10/09	06:25
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ]
EDDs Required: [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes yes yes yes
State Samples Collected In? MD NJ NY PA
Other

ALSI FIELD SERVICES
[ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 6/07

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9778730**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/06/09)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 12, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Friday, March 06, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9778730 NWT-YORK (03/06/09) Discard Date: 03/26/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9778730001	WAB-UST1 (12')	Solid	3/6/09 12:56	3/6/09 14:55	Dan Buterbaugh
9778730002	WAB-UST2 (12')	Solid	3/6/09 13:01	3/6/09 14:55	Dan Buterbaugh
9778730003	WAB Stockpile 1	Solid	3/6/09 12:52	3/6/09 14:55	Dan Buterbaugh
9778730004	WAB Stockpile 2	Solid	3/6/09 12:54	3/6/09 14:55	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9778730 NWT-YORK (03/06/09)

Lab ID: **9778730001** Date Collected: 3/6/2009 12:56 Matrix: Solid

Sample ID: **WAB-UST1 (12')** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	59.5	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
Ethylbenzene	ND		ug/kg	59.5	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
Isopropylbenzene	ND		ug/kg	59.5	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
Methyl t-Butyl Ether	ND		ug/kg	59.5	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
Naphthalene	358		ug/kg	119	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
Toluene	167		ug/kg	59.5	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
1,2,4-Trimethylbenzene	278		ug/kg	59.5	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
1,3,5-Trimethylbenzene	ND		ug/kg	59.5	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	76.1		%	71-146	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
4-Bromofluorobenzene (S)	55.5		%	46-138	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
Dibromofluoromethane (S)	81.7		%	42-143	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
Toluene-d8 (S)	99.8		%	54-141	8260/5035	3/6/09	JAH	3/9/09 12:30	JAH	A
WET CHEMISTRY										
Moisture	20.4		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	79.6		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778730 NWT-YORK (03/06/09)

Lab ID: **9778730002** Date Collected: 3/6/2009 13:01 Matrix: Solid

Sample ID: **WAB-UST2 (12')** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	63.3	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
Ethylbenzene	ND		ug/kg	63.3	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
Isopropylbenzene	ND		ug/kg	63.3	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
Methyl t-Butyl Ether	ND		ug/kg	63.3	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
Naphthalene	ND		ug/kg	127	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
Toluene	ND		ug/kg	63.3	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
1,2,4-Trimethylbenzene	ND		ug/kg	63.3	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
1,3,5-Trimethylbenzene	ND		ug/kg	63.3	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	79.2		%	71-146	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
4-Bromofluorobenzene (S)	49.6		%	46-138	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
Dibromofluoromethane (S)	86.3		%	42-143	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
Toluene-d8 (S)	105		%	54-141	8260/5035	3/6/09	JAH	3/9/09 12:57	JAH	A
WET CHEMISTRY										
Moisture	19.4		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	80.6		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778730 NWT-YORK (03/06/09)

Lab ID: **9778730003** Date Collected: 3/6/2009 12:52 Matrix: Solid

Sample ID: **WAB Stockpile 1** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	57.7	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
Ethylbenzene	ND		ug/kg	57.7	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
Isopropylbenzene	ND		ug/kg	57.7	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
Methyl t-Butyl Ether	ND		ug/kg	57.7	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
Naphthalene	ND		ug/kg	115	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
Toluene	61.4		ug/kg	57.7	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
1,2,4-Trimethylbenzene	90.3		ug/kg	57.7	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
1,3,5-Trimethylbenzene	ND		ug/kg	57.7	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	76.6		%	71-146	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
4-Bromofluorobenzene (S)	68.2		%	46-138	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
Dibromofluoromethane (S)	82.3		%	42-143	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
Toluene-d8 (S)	98.6		%	54-141	8260/5035	3/6/09	JAH	3/9/09 13:24	JAH	A
WET CHEMISTRY										
Moisture	17.8		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	82.2		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778730 NWT-YORK (03/06/09)

Lab ID: **9778730004** Date Collected: 3/6/2009 12:54 Matrix: Solid

Sample ID: **WAB Stockpile 2** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	65.5	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
Ethylbenzene	ND		ug/kg	65.5	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
Isopropylbenzene	ND		ug/kg	65.5	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
Methyl t-Butyl Ether	ND		ug/kg	65.5	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
Naphthalene	541		ug/kg	131	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
Toluene	ND		ug/kg	65.5	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
1,2,4-Trimethylbenzene	457		ug/kg	65.5	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
1,3,5-Trimethylbenzene	146		ug/kg	65.5	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	76.6		%	71-146	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
4-Bromofluorobenzene (S)	76.9		%	46-138	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
Dibromofluoromethane (S)	84.9		%	42-143	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
Toluene-d8 (S)	94.4		%	54-141	8260/5035	3/6/09	DD	3/9/09 20:56	DD	A
WET CHEMISTRY										
Moisture	19.7		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	80.3		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A

Sample Comments:

Anna G Milliken
Laboratory Manager

Report ID: 9778730

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/ SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1

Courier:

Tracking #:

9778730

Co. Name: ARM Group

Contact (Report to): DButterbaugh/SFulton

Phone:

Address: Hershey PA

Bill to (if different than Report to):

PO#:

Project Name/#: NWT York/07214

ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges.

Date Required: 3/10/09

Approved By:

Email? [X] Y dbutterbaugh@armgroup.net

Fax? [ ] Y No: sfulton@armgroup.net

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1 WAB-UST 1 (12')		3/6/09	1256	G	S	1
2 WAB-UST 2 (12')			1301	G	S	1
3 WAB Stockpile 1			1252	G	S	1
4 WAB-Stockpile 2			1254	G	S	1
5						
6						
7						
8						

***Container Type: G
***Container Size: 40z
***Preservative: —
ANALYSES/METHOD REQUESTED: Heating Oil

Receipt Information (completed by Sample Receiving)
Performed In: [illegible]
Cooler Temp: 40C
Therm. ID: 51023559
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
1	(Y)	(Y)	(Y)	(N) Y	
2	(N)	N	N	N	N
3	Y	Y	(Y)	(Y)	(Y)
4	Y	Y	(Y)	(Y)	(Y)
5					
6					
7					
8					

	Custody seals Present?	(if present) Seals intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
1					
2					
3					
4					

SAMPLED BY (Please Print): D Butterbaugh

LOGGED BY(signature): DATE 3/6/09 TIME 1748

REVIEWED BY(signature): DATE 03/6/09 TIME 2340

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	3/6/09	0255	2	3/6/09	0255
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

EDDs Required? [ ] If yes, format type:

SDWA Forms? yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

DOD Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite

**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 6/07

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9777732**
Purchase Order:	**07214**	Workorder ID:	**NWT NewYork(07214)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 3, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Saturday, February 28, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9777732 NWT NewYork(07214) Discard Date: 03/17/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9777732001	BC-S1(3')2-09	Solid	2/27/09 12:37	2/28/09 09:30	Dan Buterbaugh
9777732002	BC-S2(3')2-09	Solid	2/27/09 12:42	2/28/09 09:30	Dan Buterbaugh
9777732003	BC-S3(3')2-09	Solid	2/27/09 12:45	2/28/09 09:30	Dan Buterbaugh
9777732004	BC-S4(3')2-09	Solid	2/27/09 12:50	2/28/09 09:30	Dan Buterbaugh
9777732005	BC-S5(3')2-09	Solid	2/27/09 12:51	2/28/09 09:30	Dan Buterbaugh
9777732006	BC-S6(3')2-09	Solid	2/27/09 12:55	2/28/09 09:30	Dan Buterbaugh
9777732007	BC-S7(3')2-09	Solid	2/27/09 13:00	2/28/09 09:30	Dan Buterbaugh
9777732008	BC-S8(3')2-09	Solid	2/27/09 13:05	2/28/09 09:30	Dan Buterbaugh
9777732009	BC-S9(3')2-09	Solid	2/27/09 13:05	2/28/09 09:30	Dan Buterbaugh
9777732010	BC-S10(3')2-09	Solid	2/27/09 13:08	2/28/09 09:30	Dan Buterbaugh
9777732011	BC-S11(3')2-09	Solid	2/27/09 13:10	2/28/09 09:30	Dan Buterbaugh
9777732012	BC-S12(3')2-09	Solid	2/27/09 13:15	2/28/09 09:30	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732001** Date Collected: 2/27/2009 12:37 Matrix: Solid

Sample ID: **BC-S1(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	21.9		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	78.1		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	9.4		mg/kg	3.6	SW846 6010C	3/2/09	MNP	3/2/09 12:00	TED	A1
Lead, Total	18.1		mg/kg	2.4	SW846 6010C	3/2/09	MNP	3/2/09 12:00	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732002** Date Collected: 2/27/2009 12:42 Matrix: Solid

Sample ID: **BC-S2(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	20.6		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	79.4		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	ND		mg/kg	3.3	SW846 6010C	3/2/09	MNP	3/2/09 12:03	TED	A1
Lead, Total	5.2		mg/kg	2.2	SW846 6010C	3/2/09	MNP	3/2/09 12:03	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732003** Date Collected: 2/27/2009 12:45 Matrix: Solid

Sample ID: **BC-S3(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	25.8		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	74.2		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	6.0		mg/kg	4.0	SW846 6010C	3/2/09	MNP	3/2/09 12:15	TED	A1
Lead, Total	13.9		mg/kg	2.7	SW846 6010C	3/2/09	MNP	3/2/09 12:15	TED	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732004** Date Collected: 2/27/2009 12:50 Matrix: Solid

Sample ID: **BC-S4(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	22.6		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	77.4		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	5.9		mg/kg	3.8	SW846 6010C	3/2/09	MNP	3/2/09 12:27	TED	A1
Lead, Total	14.1		mg/kg	2.5	SW846 6010C	3/2/09	MNP	3/2/09 12:27	TED	A1

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732005** Date Collected: 2/27/2009 12:51 Matrix: Solid

Sample ID: **BC-S5(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	22.8		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	77.2		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	4.7		mg/kg	3.7	SW846 6010C	3/2/09	MNP	3/2/09 12:31	TED	A1
Lead, Total	20.1		mg/kg	2.4	SW846 6010C	3/2/09	MNP	3/2/09 12:31	TED	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732006** Date Collected: 2/27/2009 12:55 Matrix: Solid

Sample ID: **BC-S6(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	15.1		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	84.9		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	8.9		mg/kg	3.3	SW846 6010C	3/2/09	MNP	3/2/09 12:34	TED	A1
Lead, Total	9.7		mg/kg	2.2	SW846 6010C	3/2/09	MNP	3/2/09 12:34	TED	A1

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732007** Date Collected: 2/27/2009 13:00 Matrix: Solid

Sample ID: **BC-S7(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	20.9		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	79.1		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	5.7		mg/kg	3.4	SW846 6010C	3/2/09	MNP	3/2/09 12:38	TED	A1
Lead, Total	15.2		mg/kg	2.3	SW846 6010C	3/2/09	MNP	3/2/09 12:38	TED	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732008** Date Collected: 2/27/2009 13:05 Matrix: Solid

Sample ID: **BC-S8(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	23.3		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	76.7		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	5.8		mg/kg	3.9	SW846 6010C	3/2/09	MNP	3/2/09 12:42	TED	A1
Lead, Total	19.5		mg/kg	2.6	SW846 6010C	3/2/09	MNP	3/2/09 12:42	TED	A1

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732009** Date Collected: 2/27/2009 13:05 Matrix: Solid

Sample ID: **BC-S9(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	21.2		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	78.8		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	ND		mg/kg	3.7	SW846 6010C	3/2/09	MNP	3/2/09 12:46	TED	A1
Lead, Total	12.1		mg/kg	2.5	SW846 6010C	3/2/09	MNP	3/2/09 12:46	TED	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732010** Date Collected: 2/27/2009 13:08 Matrix: Solid

Sample ID: **BC-S10(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	24.1		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	75.9		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	4.2		mg/kg	3.3	SW846 6010C	3/2/09	MNP	3/2/09 12:50	TED	A1
Lead, Total	12.3		mg/kg	2.2	SW846 6010C	3/2/09	MNP	3/2/09 12:50	TED	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732011** Date Collected: 2/27/2009 13:10 Matrix: Solid

Sample ID: **BC-S11(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	22.2		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	77.8		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	10.6		mg/kg	3.7	SW846 6010C	3/2/09	MNP	3/2/09 13:01	TED	A1
Lead, Total	170		mg/kg	2.5	SW846 6010C	3/2/09	MNP	3/2/09 13:01	TED	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777732 NWT NewYork(07214)

Lab ID: **9777732012** Date Collected: 2/27/2009 13:15 Matrix: Solid

Sample ID: **BC-S12(3')2-09** Date Received: 2/28/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	12.9		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
Total Solids	87.1		%	0.1	SM20-2540 G			3/2/09 12:20	LAD	A
METALS										
Arsenic, Total	17.9		mg/kg	3.1	SW846 6010C	3/2/09	MNP	3/2/09 13:05	TED	A1
Lead, Total	10.7		mg/kg	2.1	SW846 6010C	3/2/09	MNP	3/2/09 13:05	TED	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9777956**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/03/09)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 6, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, March 03, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9777956 NWT-YORK (03/03/09) Discard Date: 03/20/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9777956001	BC2-S1 (6") 3-09	Solid	3/3/09 11:25	3/3/09 17:15	Dan Buterbaugh
9777956002	BC2-S2 (10") 3-09	Solid	3/3/09 11:27	3/3/09 17:15	Dan Buterbaugh
9777956003	BC2-S3 (6") 3-09	Solid	3/3/09 11:29	3/3/09 17:15	Dan Buterbaugh
9777956004	BC2-S4 (10") 3-09	Solid	3/3/09 11:31	3/3/09 17:15	Dan Buterbaugh
9777956005	BC2-S5 (10") 3-09	Solid	3/3/09 11:32	3/3/09 17:15	Dan Buterbaugh
9777956006	BC2-S6 (6") 3-09	Solid	3/3/09 11:33	3/3/09 17:15	Dan Buterbaugh
9777956007	BC2-S7 (6") 3-09	Solid	3/3/09 11:35	3/3/09 17:15	Dan Buterbaugh
9777956008	BC2-S8 (10") 3-09	Solid	3/3/09 11:37	3/3/09 17:15	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9777956 NWT-YORK (03/03/09)

Lab ID: **9777956001** Date Collected: 3/3/2009 11:25 Matrix: Solid

Sample ID: **BC2-S1 (6") 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	81.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	45.6		mg/kg	3.3	SW846 6010C	3/4/09	MNP	3/5/09 02:26	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777956 NWT-YORK (03/03/09)

Lab ID: **9777956002** Date Collected: 3/3/2009 11:27 Matrix: Solid

Sample ID: **BC2-S2 (10") 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	19.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	80.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	6.0		mg/kg	3.2	SW846 6010C	3/4/09	MNP	3/5/09 02:30	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777956 NWT-YORK (03/03/09)

Lab ID: **9777956003** Date Collected: 3/3/2009 11:29 Matrix: Solid

Sample ID: **BC2-S3 (6") 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	81.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	6.6		mg/kg	3.4	SW846 6010C	3/4/09	MNP	3/5/09 02:34	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777956 NWT-YORK (03/03/09)

Lab ID: **9777956004** Date Collected: 3/3/2009 11:31 Matrix: Solid

Sample ID: **BC2-S4 (10") 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	81.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	5.5		mg/kg	3.3	SW846 6010C	3/4/09	MNP	3/5/09 02:38	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777956 NWT-YORK (03/03/09)

Lab ID: **9777956005** Date Collected: 3/3/2009 11:32 Matrix: Solid

Sample ID: **BC2-S5 (10") 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	23.1		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	76.9		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	7.7		mg/kg	3.3	SW846 6010C	3/4/09	MNP	3/5/09 02:58	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777956 NWT-YORK (03/03/09)

Lab ID: **9777956006** Date Collected: 3/3/2009 11:33 Matrix: Solid

Sample ID: **BC2-S6 (6") 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	21.0		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	79.0		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	7.1		mg/kg	3.6	SW846 6010C	3/4/09	MNP	3/5/09 03:02	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777956 NWT-YORK (03/03/09)

Lab ID: **9777956007** Date Collected: 3/3/2009 11:35 Matrix: Solid

Sample ID: **BC2-S7 (6") 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	81.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	10.8		mg/kg	3.5	SW846 6010C	3/4/09	MNP	3/5/09 03:05	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777956 NWT-YORK (03/03/09)

Lab ID: **9777956008** Date Collected: 3/3/2009 11:37 Matrix: Solid

Sample ID: **BC2-S8 (10") 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	81.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	18.6		mg/kg	3.5	SW846 6010C	3/5/09	MNP	3/6/09 02:48	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

Report ID: 9777956

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier:

Tracking #:

9777956

Co. Name: ARM Group

Contact (Report to): DButerbaugh / SFulton Phone:

Address: Hershey PA

Bill to (if different than Report to): PO#:

Project Name/#: NWT York / 07214 ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges. Date Required: 3/5/09 Approved By:

Email? [X] -Y sfulton@armgroup.net

Fax? [ ] -Y No. dbuterbaugh@armgroup.net

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1 BC2-S1(6")3-09	25	3/3/09	1125	G	S	1
2 BC2-S2(10")309	24		1127			1
3 BC2-S3(6")309	51		1129			1
4 BC2-S4(10")3-09	21		1131			1
5 BC2-S5(10")309	45		1132			1
6 BC2-S6(6")3-09	14		1133			1
7 BC2-S7(6")3-09	41		1135			1
8 BC2-S8(10")3-09	43		1137			1

***Container Type: G
***Container Size: 8oz
***Preservative: —
ANALYSES/METHOD REQUESTED: Arsenic

Receipt Information (completed by Sample Receipt)
Performed by:
Cooler Temp: 6°
Therm. ID: 51023557
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	D	D	D	—	
	N	N	N	N	N
	(2)	N	N	N	N
	Y	Y	(5)	(3)	(1)

	Custody seals Present?	(If present) Seals Intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?

SAMPLED BY (Please Print): Dan Buterbaugh

LOGGED BY(signature): DATE: 3/3 TIME: 1715

REVIEWED BY(signature): DATE: 03/05/09 TIME: 1085

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	3/3/09	1715	2 ALSI	3/3/09	1715
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] EDDs Required? [ ] If yes, format type:

SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ] Other

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

DOD Criteria Required?

* G=Grab; C=Composite

**Matrix: A=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 6/07

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9778733**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK 03/06/09 07214**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

July 10, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Friday, March 06, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

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Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

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Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9778733 NWT-YORK 03/06/09 07214 Discard Date: 07/24/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9778733001	BC3-S1 (4') 3-09	Solid	3/6/09 08:53	3/6/09 14:55	Dan Buterbaugh
9778733002	BC3-S2 (3') 3-09	Solid	3/6/09 08:54	3/6/09 14:55	Dan Buterbaugh
9778733003	BC3-S3 (4') 3-09	Solid	3/6/09 08:56	3/6/09 14:55	Dan Buterbaugh
9778733004	BC3-S4 (2') 3-09	Solid	3/6/09 08:58	3/6/09 14:55	Dan Buterbaugh
9778733005	BC3-S5 (2') 3-09	Solid	3/6/09 09:00	3/6/09 14:55	Dan Buterbaugh
9778733006	BC3-S6 (2') 3-09	Solid	3/6/09 09:01	3/6/09 14:55	Dan Buterbaugh
9778733007	BC3-S7 (3') 3-09	Solid	3/6/09 09:02	3/6/09 14:55	Dan Buterbaugh
9778733008	BC3-S8 (3') 3-09	Solid	3/6/09 09:04	3/6/09 14:55	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
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PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9778733 NWT-YORK 03/06/09 07214

Lab ID: **9778733001** Date Collected: 3/6/2009 08:53 Matrix: Solid

Sample ID: **BC3-S1 (4') 3-09** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	16.0		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	84.0		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
METALS										
Arsenic, Total	9.3		mg/kg	3.4	SW846 6010C	3/9/09	MNP	3/10/09 02:53	SRT	A1

Sample Comments:

This laboratory report was reprinted due to a modification to one or more sample reports in this workorder. The necessity for this is due to the consecutive numbering of samples in a given workorder.

This report was modified to correct the sample ID as per the chain of custody. SJB 07/10/09

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778733 NWT-YORK 03/06/09 07214

Lab ID: **9778733002** Date Collected: 3/6/2009 08:54 Matrix: Solid

Sample ID: **BC3-S2 (3') 3-09** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	14.2		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	85.8		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
METALS										
Arsenic, Total	8.5		mg/kg	3.2	SW846 6010C	3/9/09	MNP	3/10/09 03:05	SRT	A1

Sample Comments:

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This report was modified to correct the sample ID as per the chain of custody. SJB 07/10/09

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778733 NWT-YORK 03/06/09 07214

Lab ID: **9778733003** Date Collected: 3/6/2009 08:56 Matrix: Solid

Sample ID: **BC3-S3 (4') 3-09** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	14.2		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	85.8		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
METALS										
Arsenic, Total	5.9		mg/kg	3.2	SW846 6010C	3/9/09	MNP	3/10/09 03:09	SRT	A1

Sample Comments:

This laboratory report was reprinted due to a modification to one or more sample reports in this workorder. The necessity for this is due to the consecutive numbering of samples in a given workorder.

This report was modified to correct the sample ID as per the chain of custody. SJB 07/10/09

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778733 NWT-YORK 03/06/09 07214

Lab ID: **9778733004** Date Collected: 3/6/2009 08:58 Matrix: Solid

Sample ID: **BC3-S4 (2') 3-09** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	12.2		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	87.8		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
METALS										
Arsenic, Total	5.6		mg/kg	2.9	SW846 6010C	3/9/09	MNP	3/10/09 03:14	SRT	A1

Sample Comments:

This laboratory report was reprinted due to a modification to one or more sample reports in this workorder. The necessity for this is due to the consecutive numbering of samples in a given workorder.

This report was modified to correct the sample ID as per the chain of custody. SJB 07/10/09

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778733 NWT-YORK 03/06/09 07214

Lab ID: **9778733005** Date Collected: 3/6/2009 09:00 Matrix: Solid

Sample ID: **BC3-S5 (2') 3-09** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	12.5		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	87.5		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
METALS										
Arsenic, Total	7.9		mg/kg	3.3	SW846 6010C	3/9/09	MNP	3/10/09 03:18	SRT	A1

Sample Comments:

This report was modified to include the arsenic result in the total metals 6010 analysis. SJB 03/12/09

This report was modified to correct the sample ID as per the chain of custody. SJB 07/10/09

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778733 NWT-YORK 03/06/09 07214

Lab ID: **9778733006** Date Collected: 3/6/2009 09:01 Matrix: Solid

Sample ID: **BC3-S6 (2') 3-09** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.4		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	81.6		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
METALS										
Arsenic, Total	11.2		mg/kg	3.5	SW846 6010C	3/9/09	MNP	3/10/09 03:29	SRT	A1

Sample Comments:

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Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778733 NWT-YORK 03/06/09 07214

Lab ID: **9778733007** Date Collected: 3/6/2009 09:02 Matrix: Solid

Sample ID: **BC3-S7 (3') 3-09** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	17.9		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	82.1		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
METALS										
Arsenic, Total	5.4		mg/kg	2.8	SW846 6010C	3/9/09	MNP	3/10/09 03:33	SRT	A1

Sample Comments:

This laboratory report was reprinted due to a modification to one or more sample reports in this workorder. The necessity for this is due to the consecutive numbering of samples in a given workorder.

This report was modified to correct the sample ID as per the chain of custody. SJB 07/10/09

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778733 NWT-YORK 03/06/09 07214

Lab ID: **9778733008** Date Collected: 3/6/2009 09:04 Matrix: Solid

Sample ID: **BC3-S8 (3') 3-09** Date Received: 3/6/2009 14:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	12.6		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
Total Solids	87.4		%	0.1	SM20-2540 G			3/7/09 02:20	MBR	A
METALS										
Arsenic, Total	5.2		mg/kg	3.3	SW846 6010C	3/9/09	MNP	3/10/09 03:37	SRT	A1

Sample Comments:

This laboratory report was reprinted due to a modification to one or more sample reports in this workorder. The necessity for this is due to the consecutive numbering of samples in a given workorder.

This report was modified to correct the sample ID as per the chain of custody. SJB 07/10/09

Anna G Milliken
Laboratory Manager

Report ID: 9778733

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1

Courier:

Tracking #:

9778733

Co. Name: ARM Group
Contact (Report to): D Buttebaugh
Phone:
Address: Hershey PA

Bill to (if different than Report to):
PO#:

Project Name/#: NWT York / 07214
ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges.
Date Required: 3/10/09
Approved By:

Email? [X] Y dbuttebaugh@armgroup.net
Fax? [ ] Y No.: shelton@armgroup.net

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Arsenic	Enter Number of Containers Per Analysis
1 BC3-S1 (4') 3-09	72	3/6/09	0853	G	S	1	
2 BC3-S2 (3') 3-09	37		0854			1	
3 BC3-S3 (4') 3-09	52		0856			1	
4 BC3-S4 (2') 3-09	04		0858			1	
5 BC3-S5 (2') 3-09	00		0900			1	
6 BC3-S6 (2') 3-09	96		0901			1	
7 BC3-S7 (3') 3-09	27		0902			1	
8 BC3-S8 (3') 3-09	13		0904			1	

***Container Type: G
***Container Size: 8oz
***Preservative: —

ANALYSES/METHOD REQUESTED

Receipt Information (completed by Sample Receiving)
Performed by: [illegible]
Cooler Temp: 4°C
Therm. ID: 51023855
No. of Coolers:
Notes:

Circle appropriate Y or N.	Container in good condition?	COC/Labels complete/accurate?	Received on ice?	(If present) Seals intact?	Custody seals Present?
Correct containers?	N	N	N	N	Y
Correct sample volume?	N	N	N	Y	Y
Correct preservation?	N	N	N	Y	Y
Headspace/Volatiles?	N	N	N	Y	N

SAMPLED BY (Please Print): D Buttebaugh

LOGGED BY (signature): [signature] DATE: 3/6/09 TIME: 1745

REVIEWED BY (signature): DATE: TIME:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	3/6/09	0255	2 [signature]	3/6/09	0255
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
SEE ATTACHED

ALSI FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Oi=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 6/07

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9779310**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 13, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, March 11, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9779310 NWT-YORK Discard Date: 03/27/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9779310001	BC-X1[2']3-09	Solid	3/11/09 11:40	3/11/09 14:40	Dan Buterbaugh
9779310002	KCW-X1[1']3-09	Solid	3/11/09 11:45	3/11/09 14:40	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9779310 NWT-YORK

Lab ID: **9779310001** Date Collected: 3/11/2009 11:40 Matrix: Solid

Sample ID: **BC-X1[2']3-09** Date Received: 3/11/2009 14:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	7.4		%	0.1	SM20-2540 G			3/11/09 22:55	MBR	A
Total Solids	92.6		%	0.1	SM20-2540 G			3/11/09 22:55	MBR	A
METALS										
Arsenic, Total	4.8		mg/kg	2.9	SW846 6010C	3/12/09	MNP	3/13/09 05:11	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9779310 NWT-YORK

Lab ID: **9779310002** Date Collected: 3/11/2009 11:45 Matrix: Solid

Sample ID: **KCW-X1[1']3-09** Date Received: 3/11/2009 14:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	16.5		%	0.1	SM20-2540 G			3/11/09 22:55	MBR	A
Total Solids	83.5		%	0.1	SM20-2540 G			3/11/09 22:55	MBR	A
METALS										
Lead, Total	171		mg/kg	2.3	SW846 6010C	3/12/09	MNP	3/13/09 05:23	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9778456**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/05/09)**

Mr. Steve Fulton
ARM Group
1129 W. Governor Road
PO Box 797
Hershey, PA 17033

March 9, 2009

Dear Mr. Fulton,

Enclosed are the analytical results for samples received by the laboratory on Thursday, March 05, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Mr. Dan Buterbaugh

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9778456 NWT-YORK (03/05/09) Discard Date: 03/23/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9778456001	BC-UST-S1[8']	Solid	3/5/09 15:04	3/5/09 17:05	Dan Buterbaugh
9778456002	BC-UST-S2[8']	Solid	3/5/09 15:06	3/5/09 17:05	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9778456 NWT-YORK (03/05/09)

Lab ID: **9778456001** Date Collected: 3/5/2009 15:04 Matrix: Solid

Sample ID: **BC-UST-S1[8']** Date Received: 3/5/2009 17:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	58.7	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
Ethylbenzene	ND		ug/kg	58.7	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
Isopropylbenzene	ND		ug/kg	58.7	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
Methyl t-Butyl Ether	ND		ug/kg	58.7	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
Naphthalene	ND		ug/kg	117	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
Toluene	ND		ug/kg	58.7	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
1,2,4-Trimethylbenzene	ND		ug/kg	58.7	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
1,3,5-Trimethylbenzene	ND		ug/kg	58.7	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	80.3		%	71-146	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
4-Bromofluorobenzene (S)	75.3		%	46-138	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
Dibromofluoromethane (S)	86.3		%	42-143	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
Toluene-d8 (S)	102		%	54-141	8260/5035	3/6/09	TEH	3/6/09 17:58	TEH	A
WET CHEMISTRY										
Moisture	21.6		%	0.1	SM20-2540 G			3/6/09 09:45	JEP	A
Total Solids	78.4		%	0.1	SM20-2540 G			3/6/09 09:45	JEP	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9778456 NWT-YORK (03/05/09)

Lab ID: **9778456002** Date Collected: 3/5/2009 15:06 Matrix: Solid

Sample ID: **BC-UST-S2[8']** Date Received: 3/5/2009 17:05

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	54.6	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
Ethylbenzene	ND		ug/kg	54.6	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
Isopropylbenzene	ND		ug/kg	54.6	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
Methyl t-Butyl Ether	ND		ug/kg	54.6	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
Naphthalene	ND		ug/kg	109	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
Toluene	ND		ug/kg	54.6	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
1,2,4-Trimethylbenzene	ND		ug/kg	54.6	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
1,3,5-Trimethylbenzene	ND		ug/kg	54.6	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	86.5		%	71-146	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
4-Bromofluorobenzene (S)	73.3		%	46-138	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
Dibromofluoromethane (S)	90.1		%	42-143	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
Toluene-d8 (S)	105		%	54-141	8260/5035	3/6/09	TEH	3/6/09 18:25	TEH	A
WET CHEMISTRY										
Moisture	17.5		%	0.1	SM20-2540 G			3/6/09 09:45	JEP	A
Total Solids	82.5		%	0.1	SM20-2540 G			3/6/09 09:45	JEP	A

Sample Comments:

Anna G Milliken
Laboratory Manager

Report ID: 9778456

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Page ___ of ___
Courier:
Tracking #:

* 9 7 7 8 4 5 6 *

Co. Name: ARM Group
Contact (Report to): DButterbaugh/SFulton Phone:
Address: Hershey PA

Bill to (If different than Report to): PO#:

Project Name/#: NWT York/67214 ALSI Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. Date Required: 03/11/09
[X] Rush-Subject to ALSI approval and surcharges. Approved By:

Email? [X] Y dbutterbaugh@armgroup.net
Fax? [ ] Y No.: SFulton@armgroup.net

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Heating 0.1	Enter Number of Containers Per Analysis
1	BC-UST-S1(8')		3/5/09	1504	G	S	1	
2	BC-UST-S2(8')		1	1506	G	S	1	
3								
4								
5								
6								
7								
8								

***Container Type: G
***Container Size: 8oz
***Preservative: 1

ANALYSES/METHOD REQUESTED

Receipt Information (completed by Sample Receiver)
Performed by:
Cooler Temp: 6
Therm. ID: 51023559
No. of Coolers:
Notes:

Correct containers?	N	Correct sample volume?	N	Correct preservation?	N	Headspace/Volatiles?	Y or N	Circle appropriate Y or N.
(If present) Seals intact?	Y	Received on ice?	Y	COC/Labels complete/accurate?	Y	Container in good condition?	Y	
Custody seals Present?	N							

SAMPLED BY (Please Print): D Butterbaugh
LOGGED BY(signature): DATE: 3/8 TIME: 1824
REVIEWED BY(signature): DATE: 03/09/09 TIME: 1145

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	3/5/09	1705	2 ALSI	3/5/09	1705
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes / yes / yes / yes
State Samples Collected in? MD NJ NY PA
Other
→Enter PWSID No.

ALSI FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 6/07

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9777415**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (02/26/09)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 5, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Thursday, February 26, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9777415 NWT-YORK (02/26/09) Discard Date: 03/18/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9777415001	Trestle-S1[8]2-09	Solid	2/26/09 11:17	2/26/09 17:20	Dan Buterbaugh
9777415002	Trestle-S2[6]2-09	Solid	2/26/09 11:22	2/26/09 17:20	Dan Buterbaugh
9777415003	Trestle-S3[8]2-09	Solid	2/26/09 11:25	2/26/09 17:20	Dan Buterbaugh
9777415004	Trestle-S4[8]2-09	Solid	2/26/09 11:28	2/26/09 17:20	Dan Buterbaugh
9777415005	Trestle-S5[9]2-09	Solid	2/26/09 11:30	2/26/09 17:20	Dan Buterbaugh
9777415006	Trestle-S6[9]2-09	Solid	2/26/09 11:32	2/26/09 17:20	Dan Buterbaugh
9777415007	Trestle-S7[9]2-09	Solid	2/26/09 11:35	2/26/09 17:20	Dan Buterbaugh
9777415008	Trestle-S8[9]2-09	Solid	2/26/09 11:37	2/26/09 17:20	Dan Buterbaugh
9777415009	Trestle-S9[4]2-09	Solid	2/26/09 11:41	2/26/09 17:20	Dan Buterbaugh
9777415010	Trestle-S10[9]2-09	Solid	2/26/09 11:44	2/26/09 17:20	Dan Buterbaugh
9777415011	Trestle-S11[9]2-09	Solid	2/26/09 11:46	2/26/09 17:20	Dan Buterbaugh
9777415012	Trestle-S12[9]2-09	Solid	2/26/09 11:50	2/26/09 17:20	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415001** Date Collected: 2/26/2009 11:17 Matrix: Solid

Sample ID: **Trestle-S1[8]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	181		ug/kg	113	SW846 8270D	2/27/09	CMG	3/2/09 14:23	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	73.1		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 14:23	DHF	A2
Nitrobenzene-d5 (S)	73.4		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 14:23	DHF	A2
Terphenyl-d14 (S)	65.8		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 14:23	DHF	A2
WET CHEMISTRY										
Moisture	12.2		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	87.8		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	10.2		mg/kg	2.9	SW846 6010C	2/27/09	MNP	3/2/09 03:21	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415002** Date Collected: 2/26/2009 11:22 Matrix: Solid

Sample ID: **Trestle-S2[6]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	ND		ug/kg	121	SW846 8270D	2/27/09	CMG	3/2/09 15:12	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	71.7		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 15:12	DHF	A2
Nitrobenzene-d5 (S)	71		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 15:12	DHF	A2
Terphenyl-d14 (S)	63		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 15:12	DHF	A2
WET CHEMISTRY										
Moisture	17.6		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	82.4		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	11.1		mg/kg	3.0	SW846 6010C	2/27/09	MNP	3/2/09 03:25	SRT	A1

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415003** Date Collected: 2/26/2009 11:25 Matrix: Solid

Sample ID: **Trestle-S3[8]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	1080		ug/kg	120	SW846 8270D	2/27/09	CMG	3/2/09 16:01	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	78.7		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 16:01	DHF	A2
Nitrobenzene-d5 (S)	73.5		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 16:01	DHF	A2
Terphenyl-d14 (S)	66.7		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 16:01	DHF	A2
WET CHEMISTRY										
Moisture	17.6		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	82.4		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	46.1		mg/kg	3.4	SW846 6010C	2/27/09	MNP	3/2/09 03:37	SRT	A1

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415004** Date Collected: 2/26/2009 11:28 Matrix: Solid

Sample ID: **Trestle-S4[8]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	178		ug/kg	122	SW846 8270D	2/27/09	CMG	3/2/09 16:50	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	72.6		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 16:50	DHF	A2
Nitrobenzene-d5 (S)	73.9		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 16:50	DHF	A2
Terphenyl-d14 (S)	62.4		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 16:50	DHF	A2
WET CHEMISTRY										
Moisture	18.1		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	81.9		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	6.4		mg/kg	3.3	SW846 6010C	2/27/09	MNP	3/2/09 03:41	SRT	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415005** Date Collected: 2/26/2009 11:30 Matrix: Solid

Sample ID: **Trestle-S5[9]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	1960		ug/kg	119	SW846 8270D	2/27/09	CMG	3/2/09 17:39	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	70.5		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 17:39	DHF	A2
Nitrobenzene-d5 (S)	70.9		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 17:39	DHF	A2
Terphenyl-d14 (S)	58.9		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 17:39	DHF	A2
WET CHEMISTRY										
Moisture	16.3		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	83.7		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	17.3		mg/kg	3.3	SW846 6010C	2/27/09	MNP	3/2/09 03:45	SRT	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415006** Date Collected: 2/26/2009 11:32 Matrix: Solid

Sample ID: **Trestle-S6[9]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	403		ug/kg	116	SW846 8270D	2/27/09	CMG	3/2/09 18:28	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	75.1		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 18:28	DHF	A2
Nitrobenzene-d5 (S)	74.8		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 18:28	DHF	A2
Terphenyl-d14 (S)	65.8		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 18:28	DHF	A2
WET CHEMISTRY										
Moisture	15.1		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	84.9		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	16.5		mg/kg	3.2	SW846 6010C	2/27/09	MNP	3/2/09 03:49	SRT	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415007** Date Collected: 2/26/2009 11:35 Matrix: Solid

Sample ID: **Trestle-S7[9]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	522		ug/kg	116	SW846 8270D	2/27/09	CMG	3/2/09 19:17	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	68.5		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 19:17	DHF	A2
Nitrobenzene-d5 (S)	71		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 19:17	DHF	A2
Terphenyl-d14 (S)	58.4		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 19:17	DHF	A2
WET CHEMISTRY										
Moisture	14.0		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	86.0		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	13.0		mg/kg	3.2	SW846 6010C	2/27/09	MNP	3/2/09 04:01	SRT	A1

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415008** Date Collected: 2/26/2009 11:37 Matrix: Solid

Sample ID: **Trestle-S8[9]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	320		ug/kg	119	SW846 8270D	2/27/09	CMG	3/2/09 20:06	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	67.5		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 20:06	DHF	A2
Nitrobenzene-d5 (S)	69.5		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 20:06	DHF	A2
Terphenyl-d14 (S)	57.4		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 20:06	DHF	A2
WET CHEMISTRY										
Moisture	15.9		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	84.1		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	11.3		mg/kg	3.3	SW846 6010C	2/27/09	MNP	3/2/09 04:05	SRT	A1

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415009** Date Collected: 2/26/2009 11:41 Matrix: Solid

Sample ID: **Trestle-S9[4]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	ND		ug/kg	55.4	SW846 8270D	3/3/09	RSS	3/3/09 23:22	DRS	A3
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	68.6		%	45-105	SW846 8270D	3/3/09	RSS	3/3/09 23:22	DRS	A3
Nitrobenzene-d5 (S)	73.8		%	41-110	SW846 8270D	3/3/09	RSS	3/3/09 23:22	DRS	A3
Terphenyl-d14 (S)	64.3		%	38-113	SW846 8270D	3/3/09	RSS	3/3/09 23:22	DRS	A3
WET CHEMISTRY										
Moisture	10		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	90.0		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	15.8		mg/kg	2.8	SW846 6010C	2/27/09	MNP	3/2/09 04:08	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415010** Date Collected: 2/26/2009 11:44 Matrix: Solid

Sample ID: **Trestle-S10[9]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	404		ug/kg	117	SW846 8270D	2/27/09	CMG	3/2/09 21:45	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	69.7		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 21:45	DHF	A2
Nitrobenzene-d5 (S)	67.4		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 21:45	DHF	A2
Terphenyl-d14 (S)	59.5		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 21:45	DHF	A2
WET CHEMISTRY										
Moisture	14.6		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	85.4		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	5.4		mg/kg	3.4	SW846 6010C	2/27/09	MNP	3/2/09 04:12	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415011** Date Collected: 2/26/2009 11:46 Matrix: Solid

Sample ID: **Trestle-S11[9]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	ND		ug/kg	60.8	SW846 8270D	3/3/09	RSS	3/4/09 00:11	DRS	A3
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	69.8		%	45-105	SW846 8270D	3/3/09	RSS	3/4/09 00:11	DRS	A3
Nitrobenzene-d5 (S)	76.7		%	41-110	SW846 8270D	3/3/09	RSS	3/4/09 00:11	DRS	A3
Terphenyl-d14 (S)	64.8		%	38-113	SW846 8270D	3/3/09	RSS	3/4/09 00:11	DRS	A3
WET CHEMISTRY										
Moisture	18.1		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	81.9		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	8.7		mg/kg	3.3	SW846 6010C	2/27/09	MNP	3/2/09 04:16	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777415 NWT-YORK (02/26/09)

Lab ID: **9777415012** Date Collected: 2/26/2009 11:50 Matrix: Solid

Sample ID: **Trestle-S12[9]2-09** Date Received: 2/26/2009 17:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Benzo(a)pyrene	113		ug/kg	111	SW846 8270D	2/27/09	CMG	3/2/09 23:24	DHF	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	70.3		%	40-107	SW846 8270D	2/27/09	CMG	3/2/09 23:24	DHF	A2
Nitrobenzene-d5 (S)	69.9		%	35-112	SW846 8270D	2/27/09	CMG	3/2/09 23:24	DHF	A2
Terphenyl-d14 (S)	61.7		%	45-90	SW846 8270D	2/27/09	CMG	3/2/09 23:24	DHF	A2
WET CHEMISTRY										
Moisture	10.4		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
Total Solids	89.6		%	0.1	SM20-2540 G			2/27/09 04:43	MBW	A
METALS										
Arsenic, Total	7.6		mg/kg	3.2	SW846 6010C	2/27/09	MNP	3/2/09 04:20	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

Report ID: 9777415

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 2

Courier:

Tracking #:

9777415

Co. Name: ARM Group
Contact (Report to): Dan Butterbaugh/Steve Fulton Phone: 717-533-
Address: Hershey PA

Bill to (if different than Report to): PO#:

Project Name/#: NWT York / 07214 ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges. Date Required: 3/3/09 Tues. Approved By:

Email? [X] -Y sfulton@armgroup.net
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	***Container Size	*** Preservative	Arsenic	Benzo(a) pyrene
1 Trestle-S1(8')2-09	S2	2/26/09	1117	G	S	G	802	—	1	1
2 Trestle-S2(6')2-09	25		1122						1	1
3 Trestle-S3(8')2-09	61		1123						1	1
4 Trestle-S4(8')2-09	43		1128						1	1
5 Trestle-S5(9')2-09	63		1130						1	1
6 Trestle-S6(9')2-09	75		1132						1	1
7 Trestle-S7(9')2-09	32		1135						1	1
8 Trestle-S8(9')2-09	42		1137						1	1

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiver)
Performed by: SIGN HERE
Cooler Temp: 5
Therm. ID: 87103389
No. of Coolers:
Notes:

Circle appropriate Y or N.	Container in good condition?	COC/Labels complete/accurate?	Received on ice?	(if present) Seals intact?	Custody seals Present?
N	N	N	N	N	
Y	N	N	Y	N	
N	N	N	/	/	Y
N	N	N	N	/	Y

SAMPLED BY (Please Print): Dan Butterbaugh

LOGGED BY(signature): DATE 2/26/09 TIME 2013

REVIEWED BY(signature): DATE 03/2/09 TIME 2209

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	2/26/09	1720	2	2/26/9	1720
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-Like [ ] NJ-Reduced [ ] NJ-Full [ ] other:
EDDs Required? [ ] If yes, format type:
SDWA Forms? yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ] Other
DOD Criteria Required?

ALSI FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: A=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

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Report ID: 9777415

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Courier:
Tracking #:
COC# 9777415

Co. Name: ARM Group
Contact (Report to): Dan Butterbaugh/Steve Fulton Phone:
Address: Hershey PA

Bill to (if different than Report to): PO#:

Project Name/#: NWT York / 07214 ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges. Date Required: 3/3/09 Approved By:

Email? [X] Y sfulton@armgroup.net
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Arsenic	Benzo(a)pyrene							
						Enter Number of Containers Per Analysis								
***Container Type						G								
***Container Size						8oz								
*** Preservative						—								
1 Trestle-S9(4')2-09	81	2/26/09	1141	G	S	1	1							
2 Trestle-S10(9')2-09	44		1144			1	1							
3 Trestle-S11(9')2-09	92		1146			1	1							
4 Trestle-S12(9')2-09	24		1150			1	1							
5														
6														
7														
8														

Receipt Information (completed by Sample Receiving)
Performed by: INITIAL HERE
Cooler Temp: 5
Therm. ID: 1U238
No. of Coolers:
Notes:

Circle appropriate Y or N.	Container in good condition?	COC/Labels complete/accurate?	Received on Ice?	(If present) Seals intact?	Custody seals Present?
Correct containers?	N				
Correct sample volume?	N		N	N	N
Correct preservation?	N		N	N	
Headspace/Volatiles?	Y				Y

SAMPLED BY (Please Print): Dan Butterbaugh
LOGGED BY(signature): DATE: 2/26/09 TIME: 2013
REVIEWED BY(signature): DATE: 03/01/09 TIME: 1209

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	2/26/09	1720	2	2/27/09	1720
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ] Other
DOD Criteria Required?

ALSI FIELD SERVICES
[ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9777953**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/02/09)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 6, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, March 03, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9777953 NWT-YORK (03/02/09) Discard Date: 03/20/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9777953001	Trestle-S1(11') 3-09	Solid	3/2/09 14:55	3/3/09 17:15	Dan Buterbaugh
9777953002	Trestle-S2(8') 3-09	Solid	3/2/09 14:58	3/3/09 17:15	Dan Buterbaugh
9777953003	Trestle-S3(11') 3-09	Solid	3/2/09 15:00	3/3/09 17:15	Dan Buterbaugh
9777953004	Trestle-S4 (9') 3-09	Solid	3/2/09 15:03	3/3/09 17:15	Dan Buterbaugh
9777953005	Trestle-S5 (9') 3-09	Solid	3/2/09 15:08	3/3/09 17:15	Dan Buterbaugh
9777953006	Trestle-S6 (8') 3-09	Solid	3/2/09 15:08	3/3/09 17:15	Dan Buterbaugh
9777953007	Trestle-S7 (8') 3-09	Solid	3/2/09 15:10	3/3/09 17:15	Dan Buterbaugh
9777953008	Trestle-S8 (9') 3-09	Solid	3/2/09 15:12	3/3/09 17:15	Dan Buterbaugh
9777953009	Trestle-S9 (9') 3-09	Solid	3/2/09 15:13	3/3/09 17:15	Dan Buterbaugh
9777953010	Trestle-S10 (9') 3-09	Solid	3/2/09 15:15	3/3/09 17:15	Dan Buterbaugh
9777953011	Trestle-S11 (9') 3-09	Solid	3/2/09 15:17	3/3/09 17:15	Dan Buterbaugh
9777953012	Trestle-S12 (9') 3-09	Solid	3/2/09 15:20	3/3/09 17:15	Dan Buterbaugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953001** Date Collected: 3/2/2009 14:55 Matrix: Solid

Sample ID: **Trestle-S1(11') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	19.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	80.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	9.0		mg/kg	3.4	SW846 6010C	3/4/09	MNP	3/5/09 01:25	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953002** Date Collected: 3/2/2009 14:58 Matrix: Solid

Sample ID: **Trestle-S2(8') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	17.0		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	83.0		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	8.1		mg/kg	3.5	SW846 6010C	3/4/09	MNP	3/5/09 01:37	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953003** Date Collected: 3/2/2009 15:00 Matrix: Solid

Sample ID: **Trestle-S3(11') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	19.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	80.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	5.7		mg/kg	3.2	SW846 6010C	3/4/09	MNP	3/5/09 01:40	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953004** Date Collected: 3/2/2009 15:03 Matrix: Solid

Sample ID: **Trestle-S4 (9') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	17.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	82.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	6.6		mg/kg	3.6	SW846 6010C	3/4/09	MNP	3/5/09 01:44	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953005** Date Collected: 3/2/2009 15:08 Matrix: Solid

Sample ID: **Trestle-S5 (9') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	9.6		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	90.4		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	6.3		mg/kg	2.8	SW846 6010C	3/4/09	MNP	3/5/09 01:48	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953006** Date Collected: 3/2/2009 15:08 Matrix: Solid

Sample ID: **Trestle-S6 (8') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	13.9		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	86.1		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	6.7		mg/kg	3.2	SW846 6010C	3/4/09	MNP	3/5/09 01:52	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953007** Date Collected: 3/2/2009 15:10 Matrix: Solid

Sample ID: **Trestle-S7 (8') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	21.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	78.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	6.8		mg/kg	3.8	SW846 6010C	3/4/09	MNP	3/5/09 02:03	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953008** Date Collected: 3/2/2009 15:12 Matrix: Solid

Sample ID: **Trestle-S8 (9') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.3		%	0.1	SM20-2540 G			3/5/09 23:40	MBR	A
Total Solids	81.7		%	0.1	SM20-2540 G			3/5/09 23:40	MBR	A
METALS										
Arsenic, Total	5.8		mg/kg	3.2	SW846 6010C	3/4/09	MNP	3/5/09 02:07	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953009** Date Collected: 3/2/2009 15:13 Matrix: Solid

Sample ID: **Trestle-S9 (9') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	16.8		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	83.2		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	9.8		mg/kg	3.5	SW846 6010C	3/4/09	MNP	3/5/09 02:11	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953010** Date Collected: 3/2/2009 15:15 Matrix: Solid

Sample ID: **Trestle-S10 (9') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.5		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	81.5		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	4.4		mg/kg	3.7	SW846 6010C	3/4/09	MNP	3/5/09 02:15	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953011** Date Collected: 3/2/2009 15:17 Matrix: Solid

Sample ID: **Trestle-S11 (9') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	16.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	83.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	4.5		mg/kg	3.6	SW846 6010C	3/4/09	MNP	3/5/09 02:19	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9777953 NWT-YORK (03/02/09)

Lab ID: **9777953012** Date Collected: 3/2/2009 15:20 Matrix: Solid

Sample ID: **Trestle-S12 (9') 3-09** Date Received: 3/3/2009 17:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	19.3		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
Total Solids	80.7		%	0.1	SM20-2540 G			3/4/09 18:40	LAD	A
METALS										
Arsenic, Total	7.3		mg/kg	3.3	SW846 6010C	3/4/09	MNP	3/5/09 02:23	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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Certificate of Analysis

Project Name:	**NWT-YORK**	Workorder:	**9780275**
Purchase Order:	**07214**	Workorder ID:	**NWT-YORK (03/17/09)**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

March 18, 2009

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, March 17, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Mr. Steve Fulton

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9780275 NWT-YORK (03/17/09) Discard Date: 04/01/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9780275001	Trestle S-1	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275002	Trestle S-2	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275003	Trestle S-3	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275004	Trestle S-4	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275005	Trestle S-5	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275006	Trestle S-6	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275007	Trestle S-7	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275008	Trestle S-8	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275009	Trestle S-9	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275010	Trestle S-10	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275011	Trestle S-11	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick
9780275012	Trestle S-12	Solid	3/17/09 10:30	3/17/09 17:56	Joe Janick

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275001** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-1** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.0		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	82.0		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	5.6		mg/kg	3.2	SW846 6010C	3/18/09	SRT	3/18/09 03:50	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275002** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-2** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.6		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	81.4		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	6.0		mg/kg	3.2	SW846 6010C	3/18/09	SRT	3/18/09 04:02	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275003** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-3** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	17.7		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	82.3		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	7.2		mg/kg	3.5	SW846 6010C	3/18/09	SRT	3/18/09 04:06	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275004** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-4** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	17.4		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	82.6		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	4.6		mg/kg	3.4	SW846 6010C	3/18/09	SRT	3/18/09 04:10	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275005** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-5** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.4		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	81.6		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	5.7		mg/kg	3.5	SW846 6010C	3/18/09	SRT	3/18/09 04:14	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275006** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-6** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.1		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	81.9		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	4.8		mg/kg	3.7	SW846 6010C	3/18/09	SRT	3/18/09 04:17	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275007** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-7** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.0		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	82.0		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	4.5		mg/kg	3.5	SW846 6010C	3/18/09	SRT	3/18/09 04:29	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275008** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-8** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	14.3		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	85.7		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	12.6		mg/kg	3.2	SW846 6010C	3/18/09	SRT	3/18/09 04:33	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275009** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-9** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	20.3		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	79.7		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	5.2		mg/kg	3.2	SW846 6010C	3/18/09	SRT	3/18/09 04:37	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275010** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-10** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	19.2		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	80.8		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	4.7		mg/kg	3.4	SW846 6010C	3/18/09	SRT	3/18/09 04:41	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275011** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-11** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	18.7		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	81.3		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	5.4		mg/kg	3.3	SW846 6010C	3/18/09	SRT	3/18/09 04:44	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9780275 NWT-YORK (03/17/09)

Lab ID: **9780275012** Date Collected: 3/17/2009 10:30 Matrix: Solid

Sample ID: **Trestle S-12** Date Received: 3/17/2009 17:56

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	22.8		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
Total Solids	77.2		%	0.1	SM20-2540 G			3/17/09 23:00	MBR	A
METALS										
Arsenic, Total	7.4		mg/kg	3.7	SW846 6010C	3/18/09	SRT	3/18/09 04:48	SRT	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

Report ID: 9780275

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 2

Courier:

Tracking #:

97802755

Co. Name: ARM Group, Inc.

Contact (Report to): Steve Fulton Phone: 717-533-8600

Address: 1129 W. Governor Rd.
Hershey, PA 17033

Bill to (if different than Report to): PO#:

Project Name/#: York-NWT / 07214 ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required: 3/18/09
[X] Rush-Subject to ALSI approval and surcharges. 24 hr Approved By:

Email? [X] -Y sfulton@armgroup.net
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Arsenic	Enter Number of Containers Per Analysis
1 Trestle S-1		3/17/09	1030	G	SO	1	
2 Trestle S-2						1	
3 Trestle S-3						1	
4 Trestle S-4						1	
5 Trestle S-5						1	
6 Trestle S-6						1	
7 Trestle S-7						1	
8 Trestle S-8						1	

***Container Type: CG
***Container Size: 4oz
*** Preservative: None

ANALYSES/METHOD REQUESTED

Receipt Information (completed by Sample Receiver)
Performed by: MOBIL HET
Cooler Temp: 10
Therm. ID: 905555
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	N / Y	N / Y	N / Y	N / Y	
	N / Y	N / Y	N / Y	N / Y	

	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
	N / Y	N / Y	N / Y	N / Y	N / Y

SAMPLED BY (Please Print): Joe Janik

LOGGED BY(signature): DATE 3/17 TIME 1820

REVIEWED BY(signature): DATE 03/18/09 TIME 0901

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 JJanik / ARM	3/17/09	1756	2 S Scott	3/17	1756
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ]

EDDs Required? [ ] If yes, format type:

SDWA Forms?: yes [ ] yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

Enter PWSID No.

DOD Criteria Required?

ALSI FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Oi=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 6/07

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Report ID: 9780275

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Page 2 of 2

Courier:

Tracking #:

9780275

Co. Name: ARM Group, Inc.
Contact (Report to): Steve Fulton
Phone: 717-533-8600
Address: 1129 W. Governor Rd, Hershey, PA 17033

Bill to (if different than Report to):
PO#:

Project Name/#: York NWT 107214
ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges. 24 hr.
Date Required: 3/18/09
Approved By:

Email? [X] -Y sfulton@armgroup.net
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Arsenic	
1 Trestle S-9		3/17/09	1030	G	SO	1	
2 Trestle S-10		"	"	"	"	1	
3 Trestle S-11						1	
4 Trestle S-12		↓	↓	↓	↓	1	
5							
6							
7							
8							

***Container Type: CG
***Container Size: 4oz
***Preservative: None

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)
Performed by: [illegible]
Cooler Temp: 6°
Therm. ID: JG2559
No. of Coolers:
Notes:

Circle appropriate Y or N.	Container in good condition?	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?
	Y	Y	Y	Y	Y	N	N	N	Y
	N	N	N	N	N	Y	Y	Y	N

SAMPLED BY (Please Print): Joe Janick
LOGGED BY (signature): [signature] DATE 3/17 TIME 1820
REVIEWED BY (signature): [signature] DATE 03/18/09 TIME 0901

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Joe Janick / ARM	3/17/09	1756	2 [signature]	3/17	1756
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms?→ yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected in? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
→Enter PWSID No.

ALSI FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

*G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic, Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 6/07

Analytical Laboratory Services, Inc.
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430
www.analyticallab.com
NELAP Accredited PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH nelac

Report ID: 9780275

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APPENDIX E

Attainment Demonstration Information

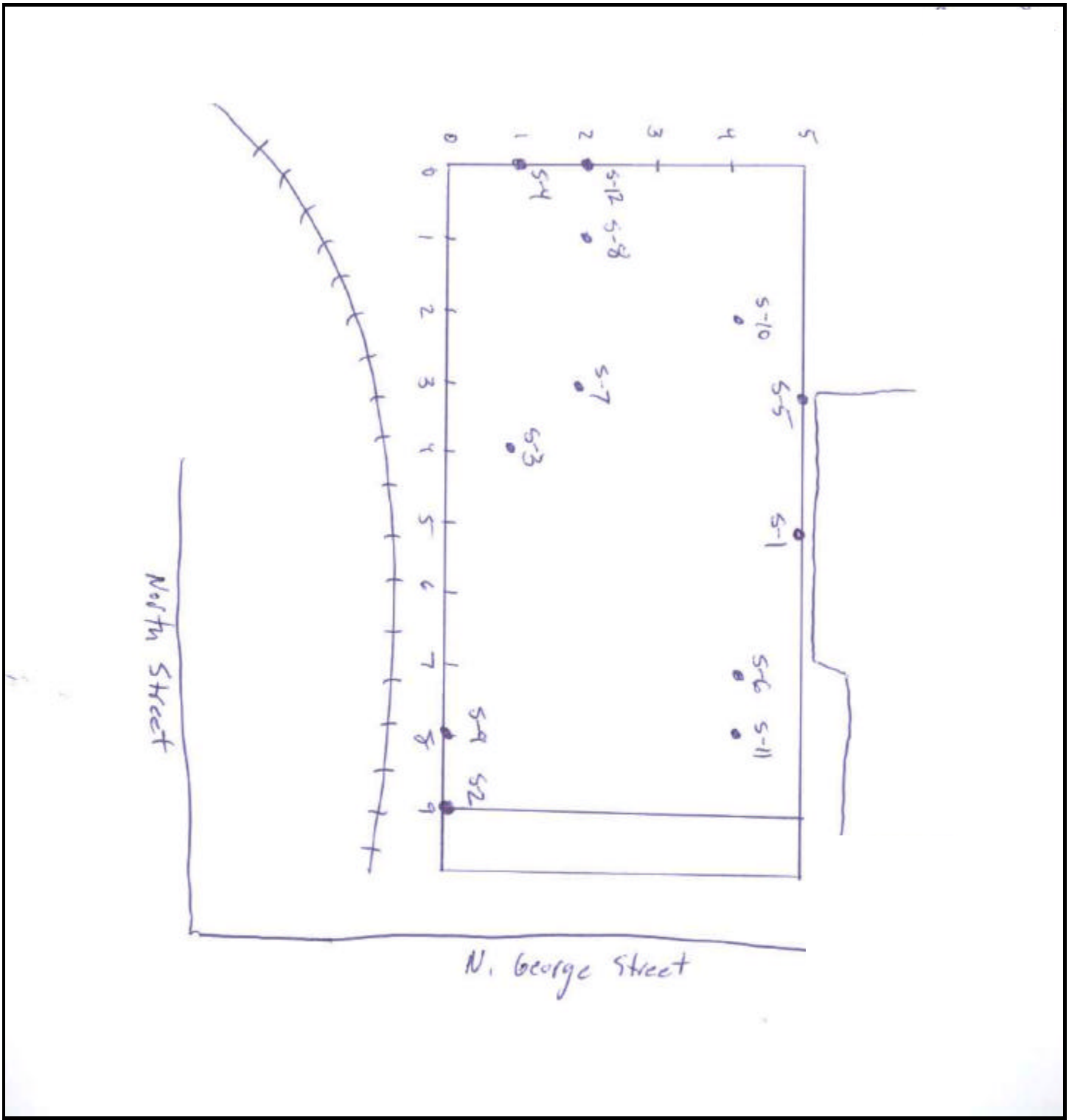


Figure 1

N

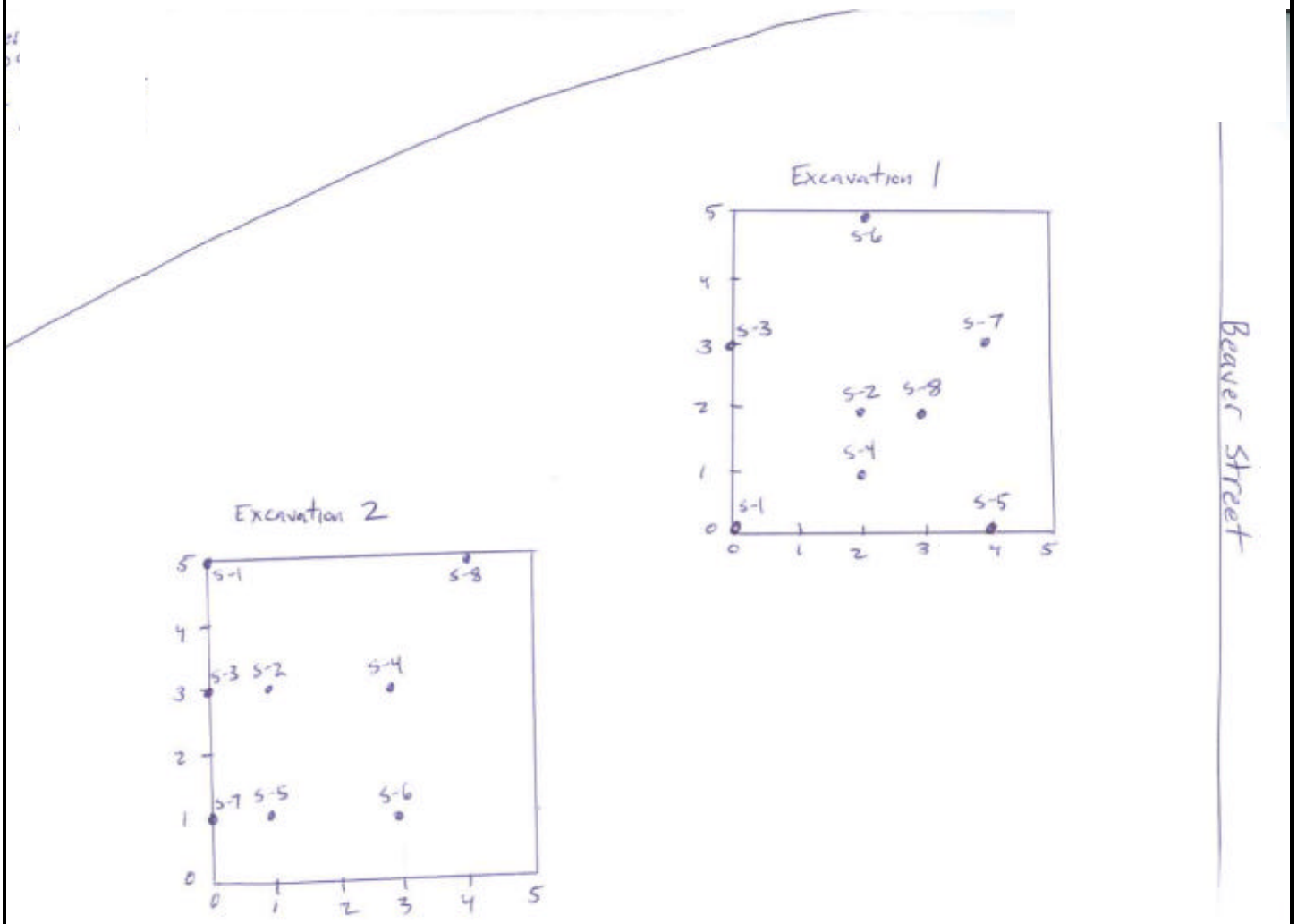
Random Sample Location Map

York Northwest Triangle
York Rail Excavation (3/4/09)

May 2009

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N

Figure 2

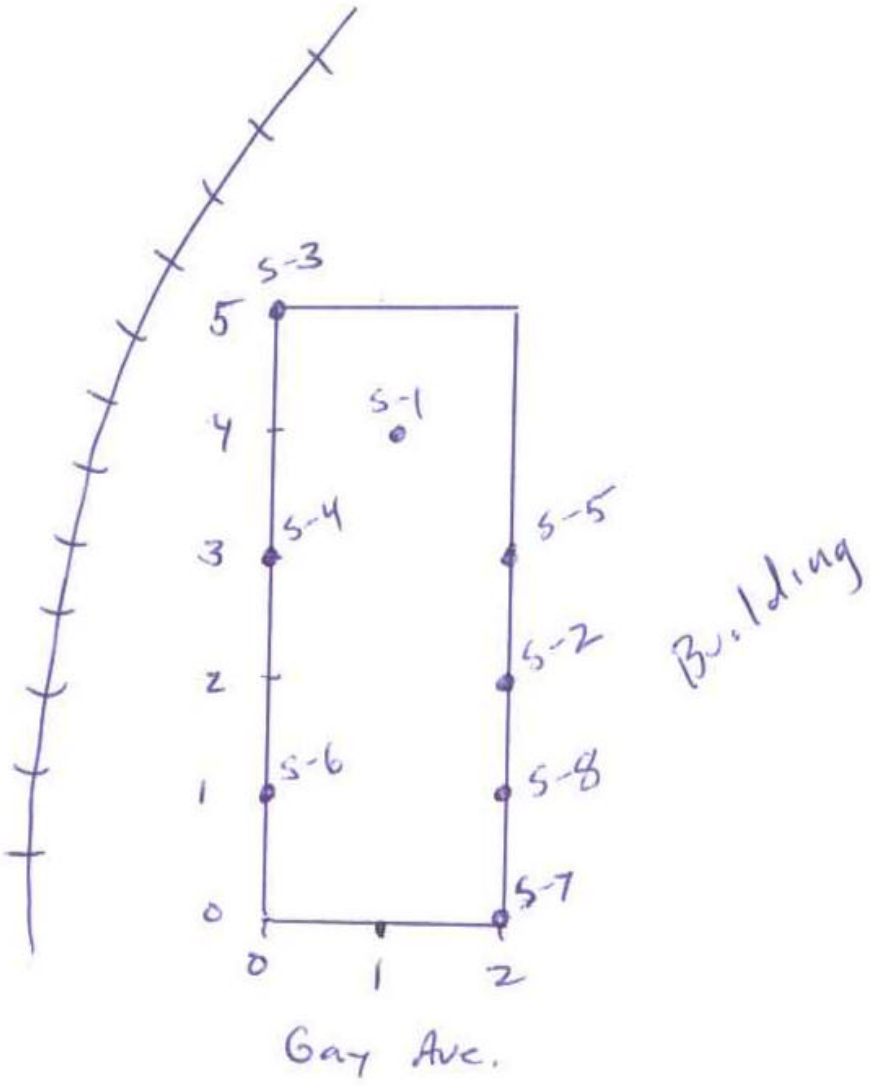
Random Sample Location Map

York Northwest Triangle
Weaver's Auto Excavation (3/9/09)

May 2009

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N

Figure 3

Random Sample Location Map

York Northwest Triangle
Keystone Color Works Excavation
(3/10/09)

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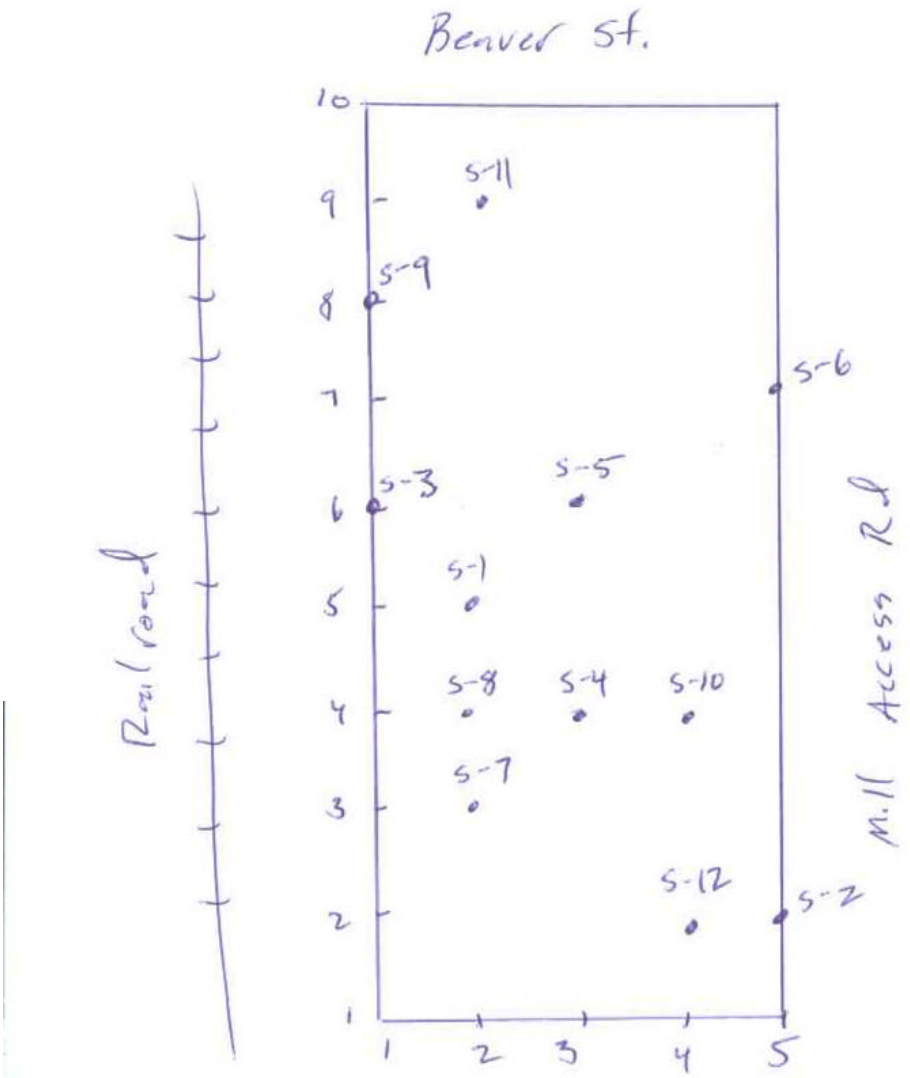


Figure 4

N

Random Sample Location Map

York Northwest Triangle
Trestle Area Excavation (2/26/09)

May 2009

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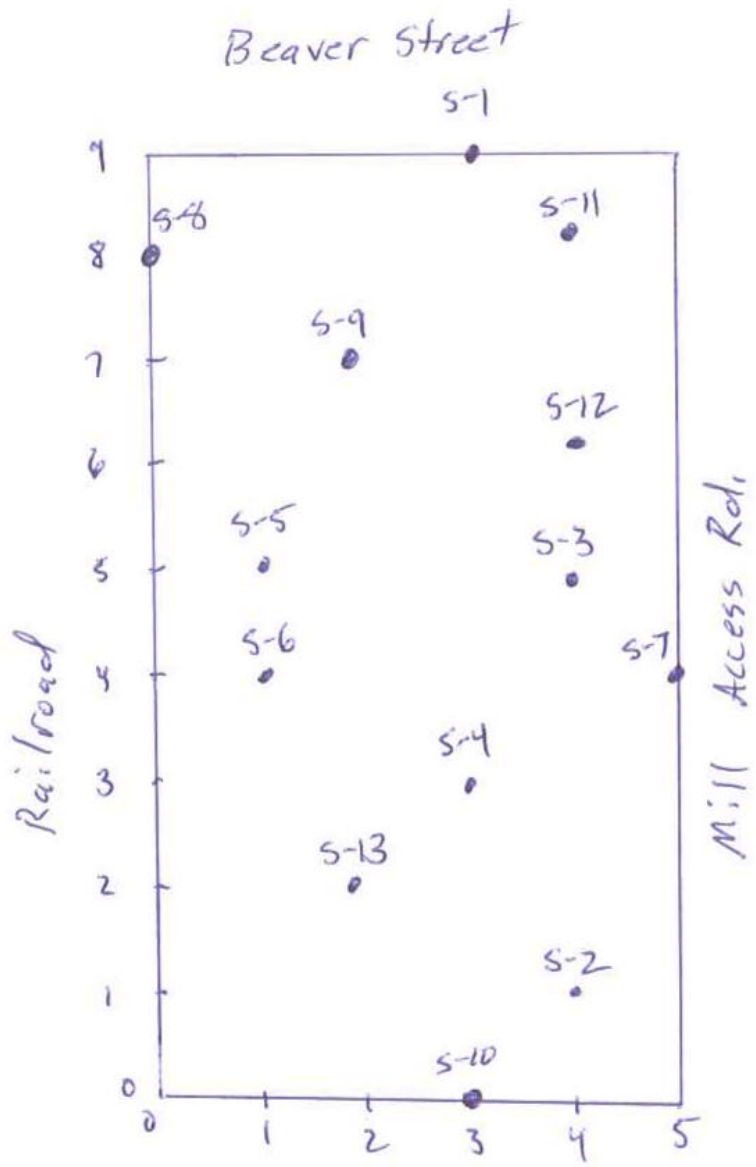


Figure 5

N

Random Sample Location Map

York Northwest Triangle
Trestle Area Excavation (3/3/09)

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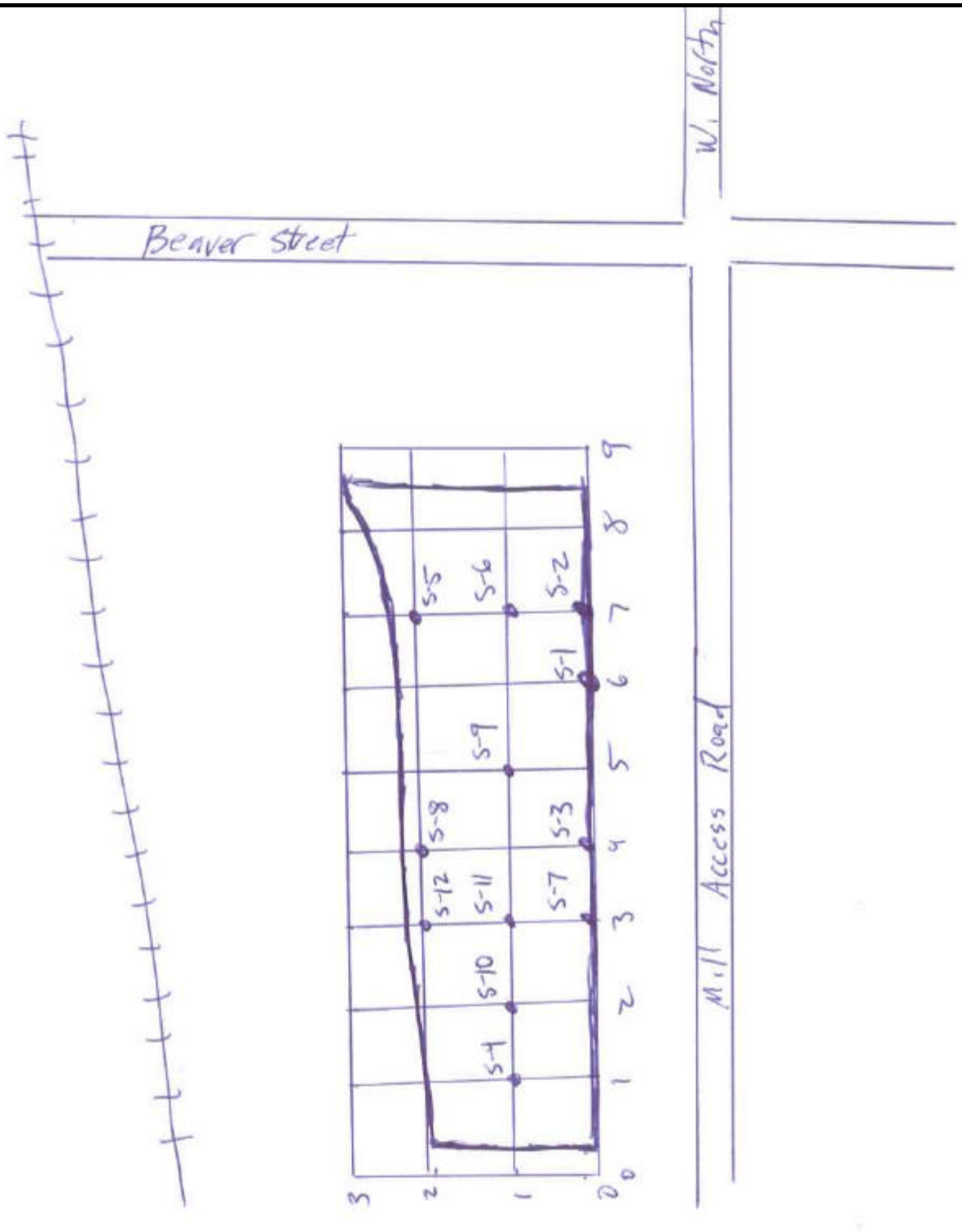


Figure 6

Random Sample Location Map

York Northwest Triangle
Trestle Area Excavation (3/17/09)

May 2009

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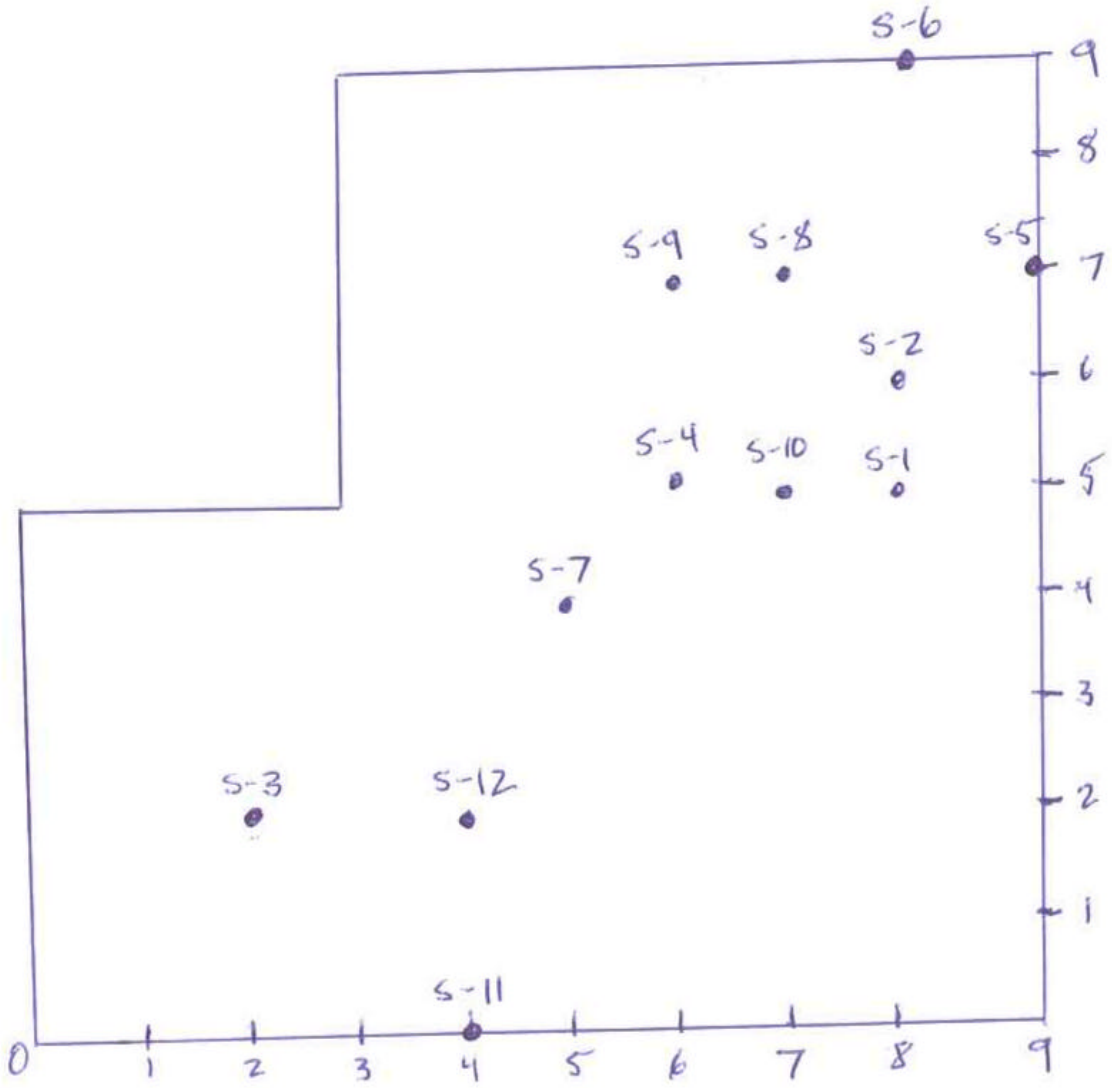


Figure 7

Random Sample Location Map

York Northwest Triangle
B & C Fasteners Excavation (2/27/09)

May 2009

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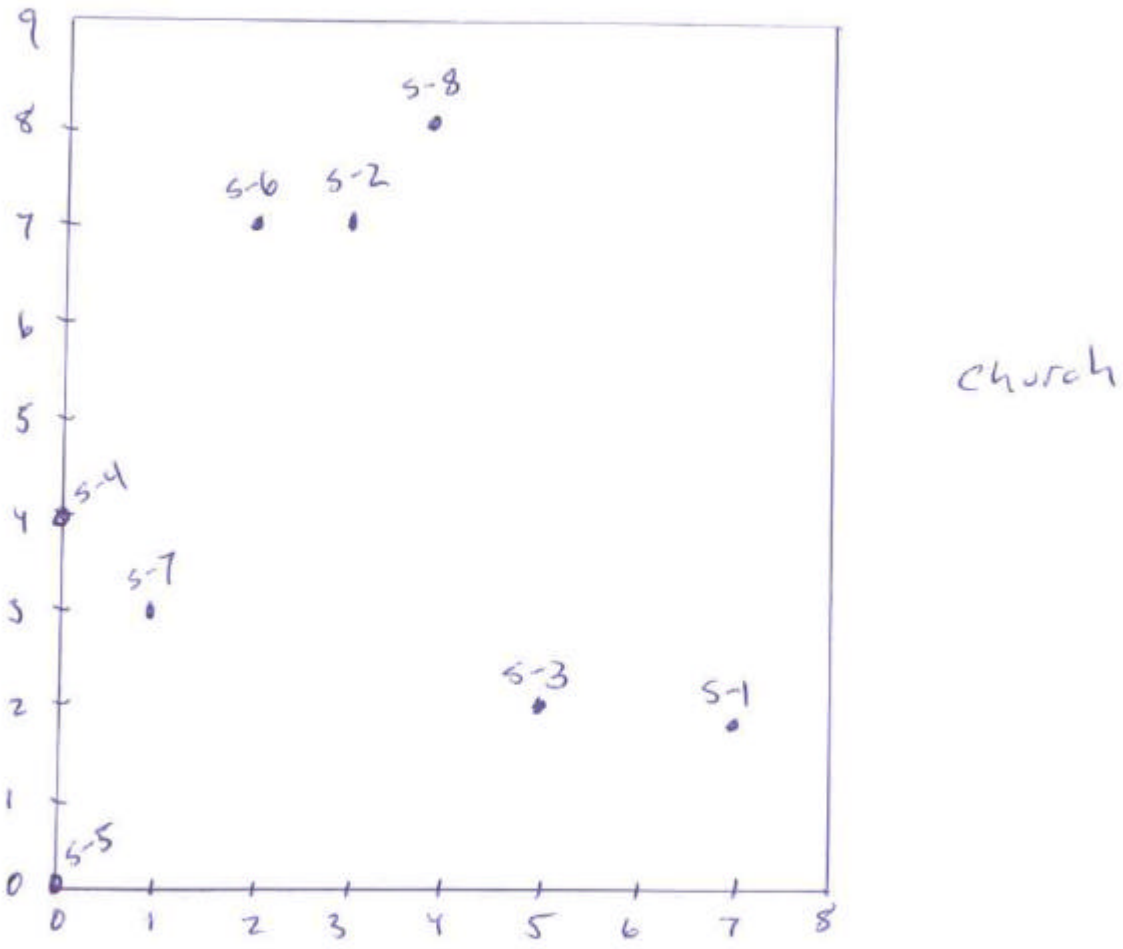


Figure 8

Random Sample Location Map

York Northwest Triangle
B & C Fasteners Excavation - Beside UST
(3/6/09)

May 2009

07214

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Earth Resource Engineers and Consultants
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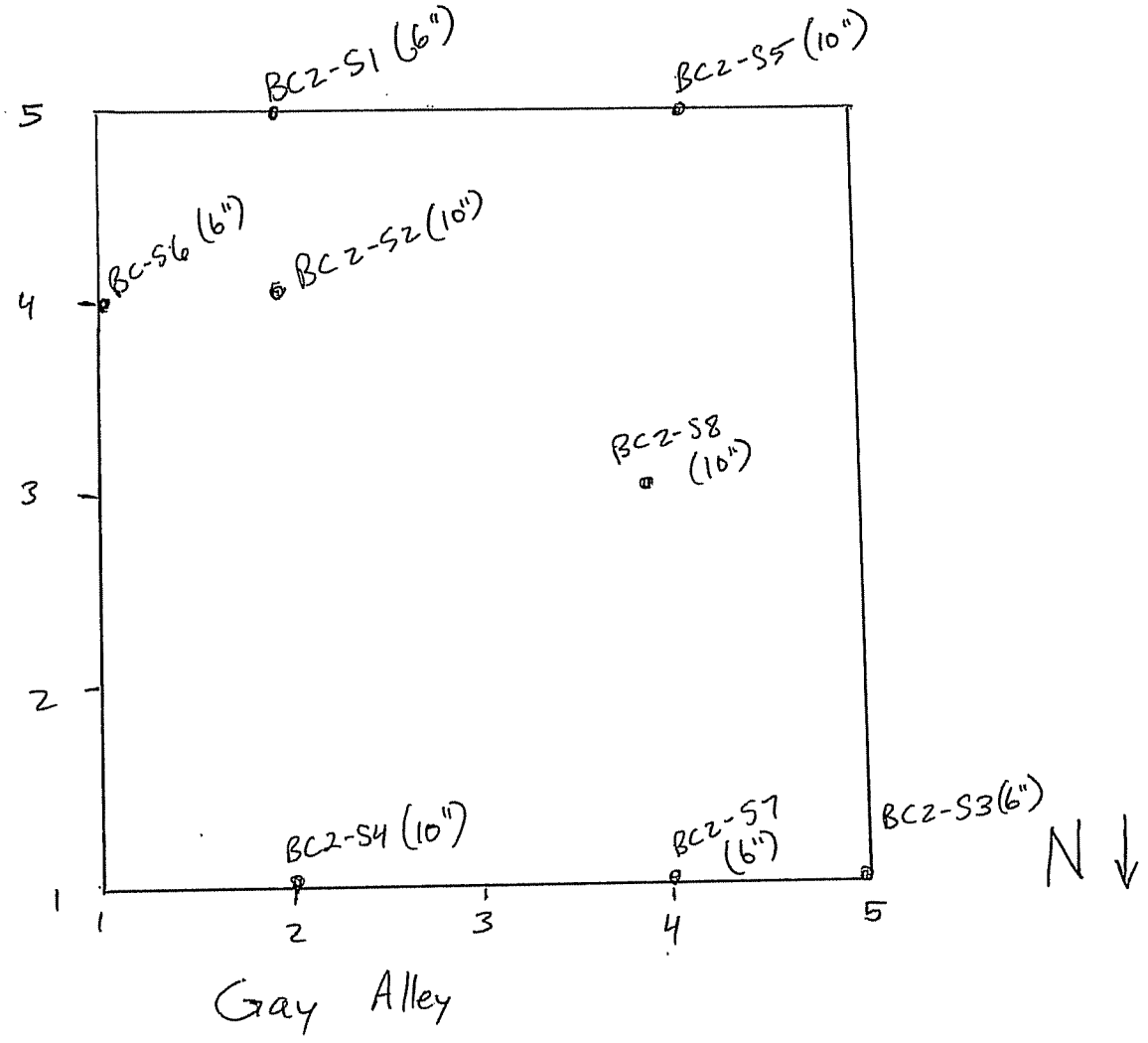


Figure 13

Random Sample Location Map

York Northwest Triangle
B & C Fasteners North Excavation (3/3/09)

November 2009

07214

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Earth Resource Engineers and Consultants
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Table IV-1. Random Number Table

67	35	39	82	14	21	81	21	96	81	65	41	49	04	80	38	34	13	03	15	96	42	55	62	54
43	25	59	81	92	29	54	98	87	58	77	38	02	09	27	06	83	23	00	90	63	39	04	52	72
93	16	47	22	58	33	01	43	61	70	10	55	75	64	68	40	17	24	98	10	53	93	00	31	43
76	77	01	14	64	62	38	18	48	04	77	42	32	38	34	34	34	91	42	14	98	51	98	29	05
69	46	32	94	85	32	27	87	78	37	73	39	25	48	92	91	57	68	52	55	11	08	99	13	55
79	92	47	00	30	13	95	52	30	16	41	45	60	80	42	90	05	38	89	84	04	33	13	21	72
84	35	41	19	11	63	65	09	06	44	43	71	87	58	78	95	27	91	41	54	10	42	38	55	83
18	57	74	64	75	42	79	88	46	32	90	31	29	09	90	07	59	89	22	74	50	05	90	43	37
14	18	29	77	76	54	35	67	41	92	09	28	91	97	68	05	60	09	22	47	04	96	99	06	24
49	02	18	20	81	94	15	81	23	52	28	84	83	75	19	13	55	96	13	70	49	79	66	85	27
49	44	95	16	39	39	13	83	99	97	38	48	63	01	40	03	95	68	71	39	36	99	24	29	55
62	07	74	32	26	41	64	83	37	57	55	37	51	98	24	99	16	02	88	85	13	65	61	81	59
75	35	06	72	07	45	22	98	59	25	90	22	41	03	96	33	89	33	58	78	01	32	36	92	82
12	50	08	09	64	33	54	62	98	24	41	72	97	33	34	11	73	67	33	79	95	62	31	23	87
16	95	18	38	50	33	78	48	00	83	01	43	77	97	26	74	84	53	05	49	29	75	77	02	32
76	23	56	61	20	15	68	82	18	28	35	82	40	18	40	31	78	53	98	45	21	87	21	31	95
74	26	53	14	97	14	09	11	22	65	74	81	52	44	80	03	86	84	78	02	55	45	90	71	49
93	69	54	96	15	66	92	23	22	51	38	42	26	71	37	01	70	87	82	47	97	83	49	24	10
85	99	75	39	81	83	56	56	87	09	32	47	40	14	72	95	74	21	08	69	47	94	65	84	88
86	43	28	23	92	54	05	55	03	89	12	57	75	16	83	36	93	99	23	59	67	24	69	74	30
22	91	19	64	96	84	66	44	09	48	80	12	65	25	43	76	36	68	27	47	52	35	61	03	33
65	82	01	56	34	08	22	38	56	21	68	55	13	18	97	45	90	91	27	25	92	06	69	84	31
51	41	63	38	07	27	96	11	21	06	24	45	33	45	37	44	40	67	80	81	39	80	77	98	43
97	80	96	04	25	30	36	44	40	25	84	23	42	79	14	41	11	64	23	14	38	29	48	18	65
89	63	32	14	59	33	78	24	52	88	02	79	97	35	74	67	96	31	61	18	00	44	59	88	88
54	14	28	53	79	48	05	74	00	98	15	74	72	91	47	45	90	66	55	38	99	60	85	09	01
77	14	06	84	47	46	88	91	03	36	75	64	77	72	11	96	46	87	33	07	29	48	37	86	66
67	33	09	75	00	76	85	28	80	71	36	29	40	32	52	52	72	89	43	05	89	50	25	84	26
75	48	93	50	88	27	76	21	90	66	48	55	88	37	76	57	00	14	83	60	67	20	35	37	18
75	86	22	20	23	27	17	67	16	38	16	33	28	72	13	47	84	57	36	12	75	86	75	23	51
40	41	19	44	32	22	13	31	25	77	28	93	89	37	04	52	71	49	87	72	32	30	69	94	36
70	94	88	25	57	99	94	82	56	91	38	22	09	52	01	84	00	60	04	91	53	10	10	51	94
42	06	41	49	47	44	71	23	61	25	64	16	16	04	48	20	65	84	89	71	43	89	73	79	80
90	55	23	36	61	93	34	69	43	83	38	03	93	00	03	13	04	77	54	90	61	26	88	01	26
22	71	21	14	59	41	29	51	06	96	62	92	63	96	16	62	48	56	86	21	16	58	33	07	41
65	63	59	60	55	36	77	10	63	48	11	60	55	27	52	73	11	95	03	79	46	12	07	26	52
74	20	65	77	78	83	37	34	09	07	47	57	86	13	47	91	17	32	50	29	72	25	87	96	71
12	16	90	59	89	14	66	72	99	45	88	86	45	48	35	26	30	34	73	46	78	29	91	46	44
52	14	41	65	84	73	55	53	00	76	43	83	09	28	13	82	07	62	72	74	60	34	43	69	26
19	87	80	56	89	83	28	45	99	87	37	02	53	39	74	08	91	23	30	13	59	59	10	57	10
29	13	62	89	16	81	78	54	60	92	31	01	04	83	60	16	42	66	81	37	42	39	74	64	40
37	30	72	00	39	53	83	30	75	48	44	30	38	98	76	94	55	60	35	12	22	82	36	18	48
66	17	13	28	82	64	10	76	67	69	53	39	05	71	22	35	13	39	97	27	48	26	94	74	53
86	41	73	49	70	03	41	05	77	28	37	71	01	30	86	36	42	65	97	78	09	34	36	56	01
56	52	43	82	45	20	20	45	49	83	52	73	63	70	47	89	93	77	32	26	73	70	50	75	10
17	89	69	72	84	80	48	78	32	51	66	12	29	79	90	25	11	33	37	44	25	47	18	40	74
11	29	91	99	26	43	90	15	09	64	20	54	89	91	59	01	93	40	33	04	46	91	86	33	90
96	68	63	61	19	29	71	05	42	14	05	84	10	36	27	60	49	40	84	92	29	23	10	45	05
29	12	44	07	75	41	74	25	36	05	49	36	50	27	64	37	51	92	47	32	05	02	21	20	71
79	00	54	24	24	32	03	96	86	96	90	65	41	87	39	29	39	75	07	20	14	94	28	87	23

Random Sampling Method:

An X-Y grid was set up across each excavation area with a 300' tape measure. The random number table above (Table IV-1: Random Number Table, PA Act 2 Land Recycling Technical Guidance Manual, Sect. IV, Page IV-48) was used to acquire two-digit numbers that corresponded to grid points within each excavation area. Starting points on the random number table were selected by blindly pointing a finger to a number on the table. The selection of numbers proceeded from this number, down the column, then to the top of the next column if necessary, until the required number of sampling points (as defined by the two-digit coordinates that fell within the excavation footprint) was acquired for a given excavation.

- Trestle Area (2/26/09)
- B & C Fasteners (2/27/09)
- Trestle Area (3/3/09)
- York Rail
- B & C Fasteners (3/6/09)
- Weaver's Auto (Excavation 1)
- Weaver's Auto (Excavation 2)
- Keystone Color Works
- Trestle Area (3/17/09)

Figure 9

Random Number Table Starting Points

York Northwest Triangle

May 2009

07214

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Earth Resource Engineers and Consultants
1129 West Governor Road • Hershey, PA 17033-0797

APPENDIX F

Site Photographs

York Rail Property



1. Before Excavation.



2. Collecting Soil Delineation Samples.



3. Excavating Soils.



4. Backfilling Excavation.



5. Backfilling Excavation.



6. Excavation Backfilled.

Keystone Color Works



1. Area of Concern.



2. Installing MW-1S.



3. MW-1S Complete.



4. Excavated Area.

Keystone Color Works



5. Excavated Area.



6. Excavation Backfilled.

Weaver’s Auto Body



1. Front of Garage.



2. Rear of Garage.



3. Installing MW-2S.



4. MW-2S completed.

Weaver’s Auto Body UST Removal



1. Uncovering UST.



2. Sand in UST.



3. Removing Sand from UST.



4. Loading Sand For Landfill.

Weaver’s Auto Body UST Removal



5. Removing UST.



6. Removing UST.



7. Backfilling Excavation.



8. Excavation Backfilled.

B&C Fasteners UST Removal



1. Before UST Removal



2. Removal of Sidewalk



3. Removal of UST 1



4. Removal of UST 2

B&C Fasteners UST Removal



5. Backfilled Excavation



6. Restored Sidewalk

B&C Fasteners Soils Excavation



1. Before Building Demolition



2. Prior to Excavating Soils



3. Excavating Soils



4. Site Backfilled

B&C Fasteners Additional UST Removal



1. Removing First UST.



2. First UST Removed.



3. Removing Second UST.



4. UST Excavation Backfilled.

York Rail – Trestle Area



1. Site Before Demolition.



2. Site Following Demolition.



3. Soil Delineation Sampling.



4. Excavating North Side of Trestle Area.

York Rail – Trestle Area



5. Excavating South Side of Trestle Area.



6. Backfilling Trestle Area.



7. Backfilling Trestle Area.



8. Trestle Area Backfilled.

APPENDIX G

Summary of Soil Export/Import

Horizon Environmental Services, Inc.

York Northwest Triangle Remediation Project Soils to Clean Earth facility in Hagerstown, MD for Recycling

Manifest Sequence Number	Manifest Number	Date of Delivery to Clean Earth	Truck Number	Property	Weight in Tons
1	228224	03/16/09	CGH-762A	TS	25.60
2	228225	03/16/09	CGH-726	TS	23.13
3	228226	03/16/09	RAH1414	TS	26.22
4	228227	03/16/09	RAH1616	TS	24.04
5	228228	03/17/09	CGH-762A	TS	24.02
6	228229	03/17/09	CGH-726	TS	22.97
7	228230	03/17/09	RAH1414	TS	26.93
8	228231	03/17/09	RAH1616	TS	26.78
9	228232	03/17/09	RAH1414	TS	29.24
10	228233	03/17/09	RAH-1616	TS	28.21
11	228234	03/18/09	RAH1616	TS	26.88
12	228236	03/18/09	RAH1414	TS	30.49
13	231132	02/24/09	KROFT-720	TN	17.50
14	231133	02/24/09	CGH-762A	TN	19.24
15	231134	02/24/09	CGH-726	TN	20.60
16	231135	02/24/09	JUSTICETA5	TN	19.69
17	231136	02/24/09	JUSTICETA6	TN	18.06
18	231137	02/24/09	JUSTICETA4	TN	16.91
19	231138	02/24/09	RAH1414	TN	26.11
20	231139	02/24/09	RAH1616	TN	26.08
21	231140	02/24/09	KROFT-720	TN	25.85
22	231141	02/24/09	CGH-762A	TN	22.18
23	231142	02/24/09	CGH-726	TN	22.89
24	231145	02/24/09	JUSTICETA7	TN	19.73
25	231146	02/24/09	JUSTICETA9	TN	22.07
26	231147	02/24/09	WISHBONE2	TN	23.66
27	231148	02/24/09	HARTLB-117	TN	20.89
28	231149	02/24/09	WISHBONE-1	TN	22.23
29	231150	02/24/09	JUST-TA10	TN	18.37
30	231151	02/24/09	JUSTICETA8	TN	21.39
31	231152	02/25/09	HARTLB-117	TN	24.98
32	231153	02/24/09	JUSTICETA9	TN	24.73
33	231154	02/24/09	JUSTICETA4	TN	19.05
34	231155	02/25/09	WISHBONE-1	TN	21.30
35	231156	02/25/09	JUST-TA10	TN	23.21
36	231157	02/25/09	JUSTICETA7	TN	23.84
37	231158	02/25/09	JUSTICETA6	TN	23.34
38	231159	02/25/09	JUSTICETA8	TN	27.03
39	231160	02/25/09	JUSTICETA5	TN	21.83
40	231161	02/25/09	RAH1414	TN	32.07
41	231162	02/25/09	WISHBONE2	TN	28.79
42	231163	02/25/09	KROFT-720	TN	22.91
43	231164	02/25/09	RAH1616	TN	31.81
44	231165	02/25/09	CGH-762A	TN	24.67
45	231166	02/25/09	CGH-726	TN	21.28
46	231167	02/25/09	RAH1616	TN	27.97
47	231168	02/25/09	RAH1414	TN	28.04
48	231169	02/25/09	HARTLB-117	TN	24.73

* TN = Trestle Area North
BC = B&C Fasteners
YR = York Rail Property
KC = Keystone Color Works
WA = Weavers Auto Body
TS = Trestle Area South

Horizon Environmental Services, Inc.

York Northwest Triangle Remediation Project Soils to Clean Earth facility in Hagerstown, MD for Recycling

Manifest Sequence Number	Manifest Number	Date of Delivery to Clean Earth	Truck Number	Property	Weight in Tons
49	231170	02/25/09	WISHBONE-2	TN	25.86
50	231171	02/25/09	WISHBONE-1	TN	28.00
51	231172	02/25/09	CGH-726	TN	22.84
52	231173	02/25/09	CGH-762A	TN	24.80
53	231174	02/25/09	KROFT-720	TN	22.38
54	231175	02/25/09	RAH1616	TN	20.27
55	231176	02/25/09	RAH1414	TN	28.89
56	231177	02/26/09	WISHBONE-2	TN	28.49
57	231178	02/26/09	HARTLB-117	TN	26.72
58	231179	02/26/09	WISHBONE-1	TN	29.70
59	231180	02/26/09	JUSTICETA9	TN	21.37
60	231181	02/26/09	JUSTICETA8	TN	26.85
61	231182	02/26/09	JUSTICETA7	TN	18.76
62	231183	02/26/09	JUST-TA10	TN	21.99
63	231184	02/26/09	CGH-762A	TN	31.00
64	231185	02/26/09	CGH-726	TN	26.47
65	231186	02/26/09	KROFT-720	TN	29.26
66	231187	02/26/09	RAH1414	TN	29.90
67	231188	02/26/09	RAH1616	TN	26.24
68	231189	02/26/09	CGH-762A	TN	27.82
69	231190	02/26/09	CGH-726	TN	23.80
70	231191	02/26/09	JUSTICETA9	TN	26.26
71	231192	02/26/09	JUSTICETA8	TN	28.87
72	231193	02/26/09	JUST-TA10	BC	25.61
73	231194	02/26/09	JUSTICETA7	BC	21.55
74	231195	02/26/09	HARTLB-117	BC	25.06
75	231196	02/26/09	WISHBONE-1	BC	25.83
76	231197	02/26/09	KROFT-720	BC	23.09
77	231198	02/26/09	WISHBONE-2	BC	24.26
78	231199	02/26/09	RAH1414	BC	29.80
79	231200	02/26/09	RAH1616	BC	27.53
80	231201	02/26/09	CGH-726	BC	24.45
81	231202	02/26/09	CGH-762A	BC	25.62
82	231203	02/26/09	JUSTICETA9	BC	22.04
83	231204	02/26/09	JUSTICETA8	BC	23.95
84	231205	02/27/09	JUST-TA10	BC	25.67
85	231206	02/27/09	JUSTICETA7	BC	18.26
86	231207	02/27/09	HARTLB-117	BC	27.31
87	231208	02/27/09	WISHBONE-1	BC	27.69
88	231209	02/27/09	KROFT-720	BC	23.53
89	231210	02/27/09	RAH1616	BC	28.37
90	231211	02/27/09	RAH1414	BC	29.19
91	231212	02/27/09	WISHBONE-2	BC	28.07
92	231213	02/27/09	CGH-762A	BC	27.43
93	231214	02/27/09	JUSTICETA9	BC	25.98
94	231215	02/27/09	JUSTICETA8	BC	26.05
95	231216	02/27/09	RAH1414	BC	31.28
96	231217	02/27/09	RAH1616	BC	25.81

* TN = Trestle Area North
BC = B&C Fasteners
YR = York Rail Property
KC = Keystone Color Works
WA = Weavers Auto Body
TS = Trestle Area South

Horizon Environmental Services, Inc.

York Northwest Triangle Remediation Project Soils to Clean Earth facility in Hagerstown, MD for Recycling

Manifest Sequence Number	Manifest Number	Date of Delivery to Clean Earth	Truck Number	Property	Weight in Tons
97	231218	02/27/09	HARTLB-117	BC	25.79
98	231219	02/27/09	KROFT-720	BC	23.95
99	231220	02/27/09	JUSTICETA7	BC	21.05
100	231221	02/27/09	JUST-TA10	BC	25.95
101	231222	03/02/09	WISHBONE-2	YR	28.31
102	231223	02/27/09	WISHBONE-1	BC	27.22
103	231224	02/27/09	JUSTICETA9	BC	25.17
104	231225	02/27/09	CGH-762A	BC	26.87
105	231226	02/27/09	JUSTICETA8	BC	27.11
106	231227	03/02/09	JUSTICETA8	YR	29.35
107	231228	03/02/09	JUSTICETA9	YR	26.20
108	231229	03/02/09	JUST-TA10	YR	28.32
109	231230	03/02/09	JUSTICETA4	YR	24.94
110	231231	03/02/09	WISHBONE-1	YR	24.57
111	231232	03/03/09	HARTLB-117	YR	22.45
112	231233	03/03/09	CGH-726	YR	22.36
113	231234	03/03/09	CGH-762A	YR	25.31
114	231235	03/03/09	RAH1414	YR	28.01
115	231236	03/02/09	CGH-762A	YR	25.63
116	231237	03/03/09	WISHBONE-2	YR	24.30
117	231238	03/03/09	WISHBONE-1	YR	25.17
118	231239	03/03/09	KROFT-720	YR	25.85
119	231240	03/03/09	RUDISILL15	YR	24.86
120	231241	03/03/09	RAH1616	YR	25.90
121	231242	03/05/09	CGH-762A	BC	28.42
122	231243	03/05/09	WISHBONE-1	BC	25.85
123	231244	03/05/09	KROFT-720	BC	26.80
124	231245	03/05/09	HARTLB-117	BC	22.77
125	231246	03/05/09	CGH-762A	BC	27.17
126	231247	03/02/09	HARTLB-117	YR	21.35
127	231248	03/02/09	KROFT-720	YR	24.99
128	231249	03/02/09	CGH-726	YR	24.65
129	231250	03/05/09	RAH1414	BC	29.50
130	231251	03/05/09	KROFT-720	BC	24.07
131	231252	03/05/09	RUDIS-134	KC	22.96
132	231254	03/05/09	RUDIS-152	KC	23.62
133	231255	03/05/09	RAH1616	KC	25.99
134	231256	03/04/09	RAH1414	YR	33.11
135	231257	03/04/09	WISHBONE-2	YR	23.04
136	231258	03/04/09	WISHBONE-1	YR	24.54
137	231259	03/04/09	RUDIS-1	YR	23.00
138	231260	03/05/09	HARTLB-117	KC	26.24
139	231261	03/04/09	RAH1616	YR	25.97
140	231342	03/04/09	RUDIS-161	YR	35.65
141	231343	03/04/09	RUDIS-134	YR	22.38
142	231344	03/04/09	CGH-762A	YR	27.72
143	231345	03/04/09	CGH-726	YR	23.49
144	231346	03/04/09	KROFT-720	YR	23.83

* TN = Trestle Area North
BC = B&C Fasteners
YR = York Rail Property
KC = Keystone Color Works
WA = Weavers Auto Body
TS = Trestle Area South

Horizon Environmental Services, Inc.

York Northwest Triangle Remediation Project Soils to Clean Earth facility in Hagerstown, MD for Recycling

Manifest Sequence Number	Manifest Number	Date of Delivery to Clean Earth	Truck Number	Property	Weight in Tons
145	231347	03/04/09	RUDIS-152	YR	21.76
146	231348	03/04/09	HARTLB-117	YR	24.62
147	231349	03/03/09	CGH-762A	YR	28.35
148	231350	03/03/09	HARTLB-117	YR	26.62
149	231351	03/03/09	CGH-726	YR	26.70
150	231352	03/03/09	KROFT-720	YR	24.82
151	231353	03/03/09	RAH1414	YR	29.81
152	231354	03/03/09	WISHBONE-1	YR	26.14
153	231355	03/04/09	RUDIS-152	YR	23.91
154	231356	03/04/09	RUDIS-134	YR	26.25
155	231357	03/03/09	WISHBONE-2	YR	23.25
156	231358	03/04/09	CGH-726	YR	22.43
157	231359	03/04/09	CGH-762A	YR	28.19
158	231360	03/04/09	HARTLB-117	YR	26.24
159	231361	03/04/09	WISHBONE-2	YR	24.96
160	231362	03/04/09	WISHBONE-1	YR	24.69
161	231363	03/04/09	RAH1414	BC	28.57
162	231364	03/04/09	KROFT-720	BC	26.08
163	231365	03/04/09	RAH1616	BC	25.53
164	231371	03/05/09	WISHBONE-1	WA	30.98
165	231372	03/06/09	KROFT-720	WA	27.22
166	231373	03/06/09	KROFT-720	WA	29.38
167	231374	03/06/09	HARTLB-117	WA	28.47
168	231375	03/09/09	HARTLB-117	BC	24.48
169	231376	03/09/09	HARTLB-117	BC	30.90
170	231377	03/10/09	CGH-726	KC	23.00
171	231378	03/10/09	CGH-762A	KC	28.31
172	231379	03/16/09	CGH-762A	TS	20.30
173	231380	03/16/09	CGH-726	TS	21.94
174	231381	03/16/09	RAH1616	TS	25.64
175	231382	03/16/09	RAH1414	TS	25.81
Total Tons					4,426.61

* TN = Trestle Area North
BC = B&C Fasteners
YR = York Rail Property
KC = Keystone Color Works
WA = Weavers Auto Body
TS = Trestle Area South

3

Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: (301) 791-6220 Fax: (301) 791-6044

Ticket: 312000010404

	Date	Time	Scale
In:	3/16/2009	14:54:40	Scale 1
Out:	3/16/2009	14:55:00	P.T.

	Lbs	Tns
Gross:	75660	37.83
Tare:	23220	11.61
Net:	52440	26.22

Manifest: 220226
Vehicle ID: RAH1414
Vehicle Permit:
Customer: HORIZON ENV SERVICES
Generator EPA#:
Facility Approval#: 093120065
Generator: York Redevelopment Author
Job Name: NW Triangle
Gen Address: 49 East Market St.
York, PA 17401
Job Address: 151 W. Gay Ave.
York, PA 17401

Origin	Materials & Services	Quantity	Unit
York	Soil Treatment Type III	26.22	Tns

Contaminate Type: Not Applicable
Treatment Type: Not Applicable
Fac Waste Code: Not Applicable

Storage Area: Staging 8
Sample ID: 77855
Comment:

Driver: DANA HUFF

Facility: Thomas, Donna

CLEANEARTH
treating the planet right

Manifest # 228226
163

AL JOB NUMBER: 108630 FACILITY APPROVAL NUMBER: 093120065

e Check One:

ean Earth of Carteret
4 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☒ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of West Virginia
3815 South State Route 2
Friendly, WV 26146
Ph: 304-652-8580

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
YORK REDEVELOPMENT AUTHORITY 49 EAST MARKET STREET YORK, PA 17401 STEVE FULTON	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: 717-849-2290	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NW TRIANGLE
151 W. GAY AVENUE
YORK, PA 17401 BRIAN SPANGLER 724-538-8522

NON-HAZ
CONTAMINATED
SOIL

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Dan Butterbaugh Title: Project Geologist

Signature: [signature] for RDA Date and Time: 3/16/09 1249

TRANSPORTER

Company: RAH Trucking LLC Phone Number: 717 465-1731 7144

Address: 1161 Baggstown Rd Truck # and License Plate: 03/ED50

Driver: [signature] SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 3-16-09

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 3/16/09

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 3-16-09

TRANSPORTER

Product	BOL #	Tons per load	Number of Loads on ticket	Total Tons on Ticket
General Fill Dirt	55097	22.90	3	68.69
General Fill Dirt	55105	22.90	34	778.43
General Fill Dirt	55109	22.90	10	228.95
General Fill Dirt	55119	22.90	51	1167.65
General Fill Dirt	55132	22.90	61	1396.60
General Fill Dirt	55134	22.90	22	503.69
General Fill Dirt	55138	22.90	10	228.95
General Fill Dirt	774351	22.43	39	874.66
General Fill Dirt	774352	22.43	81	1816.60
General Fill Dirt	774353	22.43	33	740.10
General Fill Dirt	774354	22.90	3	68.69
Total Tons General Fill				7872.98

Weight Ticket	Tons
80806	19.37
80818	23.63
80830	17.55
80696	28.36
80711	24.89
80847	19.84
80868	23.35

Blue Hill Average Weight
22.43 Tons

2A Stone	538392	23.63	1	23.63
2A Stone	538502	23.69	1	23.69
2A Stone	538587	24.09	1	24.09
2A Stone	538607	23.54	1	23.54
2A Stone	538622	23.03	1	23.03
2A Stone	538637	23.67	1	23.67
2A Stone	538649	23.36	1	23.36
2A Stone	538665	24.09	1	24.09
2A Stone	538684	24.2	1	24.2
2A Stone	538693	23.5	1	23.5
2A Stone	538706	23.9	1	23.9
2A Stone	538716	23.74	1	23.74
2A Stone	538724	23.31	1	23.31
2A Stone	538731	23.79	1	23.79
2A Stone	538604	23.74	1	23.74
2A Stone	538588	23.48	1	23.48
2A Stone	538619	23.01	1	23.01
2A Stone	538631	22.94	1	22.94
2A Stone	538646	24.03	1	24.03
2A Stone	538657	23.91	1	23.91
2A Stone	538669	23.59	1	23.59
2A Stone	538685	23.71	1	23.71
2A Stone	538699	23.75	1	23.75
2A Stone	538707	24.24	1	24.24
2A Stone	538718	23.86	1	23.86
2A Stone	538725	23.67	1	23.67
2A Stone	538732	23.56	1	23.56
2A Stone	538739	24.13	1	24.13
2A Stone	538744	24.3	1	24.3
2A Stone	538748	23.57	1	23.57
2A Stone	538752	24.03	1	24.03
2A Stone	538720	24.58	1	24.58
2A Stone	538750	24.36	1	24.36
2A Stone	538753	23.96	1	23.96

From Dan

41960	20.98
45840	22.92
50840	25.42
44520	22.26
45790	22.90

KBS Average Weight
22.90 Tons

Backfill Credit Trestle Area
1100 Yards owed
733.33 Tons owed
$ 5,646.67 Total Credit

$\times 1.6$

Product	BOL #	Tons per load	Number of Loads on ticket	Total Tons on Ticket
2A Stone	538740	23.88	1	23.88
2A Stone	538735	24.11	1	24.11
2A Stone	538726	23.72	1	23.72
2A Stone	538746	24.23	1	24.23
2A Stone	538998	24.34	1	24.34
2A Stone	538988	23.39	1	23.39
2A Stone	538982	24	1	24
2A Stone	538975	23.75	1	23.75
2A Stone	538964	24.34	1	24.34
2A Stone	538790	23.8	1	23.8
2A Stone	538796	23.69	1	23.69
2A Stone	538802	23.53	1	23.53
2A Stone	538813	23.85	1	23.85
2A Stone	538820	23.49	1	23.49
2A Stone	538849	23.93	1	23.93
2A Stone	538856	24.23	1	24.23
2A Stone	538866	24.23	1	24.23
2A Stone	538893	23.86	1	23.86
2A Stone	538886	24.47	1	24.47
2A Stone	538876	24.56	1	24.56
2A Stone	538822	23.03	1	23.03
2A Stone	538828	23.47	1	23.47
2A Stone	538835	24.15	1	24.15
2A Stone	538816	23.02	1	23.02
2A Stone	538832	23.65	1	23.65
2A Stone	539048	24.54	1	24.54
2A Stone	539045	24.09	1	24.09
2A Stone	539038	24.51	1	24.51
2A Stone	539032	24.58	1	24.58
2A Stone	539022	24.18	1	24.18
2A Stone	539016	24.25	1	24.25
2A Stone	539005	24.83	1	24.83
2A Stone	538946	22.09	1	22.09
2A Stone	538932	21.42	1	21.42
2A Stone	538921	21.97	1	21.97
2A Stone	538951	21.74	1	21.74
2A Stone	538957	21.56	1	21.56
2A Stone	538966	21.35	1	21.35
2A Stone	538972	21.09	1	21.09
2A Stone	538979	22.60	1	22.6
2A Stone	538987	21.85	1	21.85
2A Stone	538993	21.72	1	21.72
2A Stone	539003	21.84	1	21.84
2A Stone	539011	22.51	1	22.51
2A Stone	539020	22.64	1	22.64
2A Stone	539027	22.67	1	22.67
2A Stone	539036	22.14	1	22.14
2A Stone	539042	22.33	1	22.33
2A Stone	539046	22.08	1	22.08

Product	BOL #	Tons per load	Number of Loads on ticket	Total Tons on Ticket
2A Stone	539040	23.66	1	23.66
2A Stone	539034	24.37	1	24.37
2A Stone	539026	24.17	1	24.17
2A Stone	539018	24.21	1	24.21
2A Stone	539009	24.16	1	24.16
2A Stone	538999	24.64	1	24.64
2A Stone	538989	23.92	1	23.92
2A Stone	538983	23.70	1	23.7
2A Stone	538977	24.07	1	24.07
2A Stone	538970	23.34	1	23.34
2A Stone	538962	23.88	1	23.88
2A Stone	538954	23.91	1	23.91
2A Stone	538949	24.31	1	24.31
2A Stone	538943	24.44	1	24.44
2A Stone	538930	22.83	1	22.83
2A Stone	538920	24.22	1	24.22
2A Stone	538922	21.72	1	21.72
2A Stone	538935	21.63	1	21.63
2A Stone	538945	21.40	1	21.4
2A Stone	538950	21.64	1	21.64
2A Stone	538955	21.15	1	21.15
2A Stone	538963	21.05	1	21.05
2A Stone	538971	22.42	1	22.42
2A Stone	538978	21.93	1	21.93
2A Stone	538984	22.15	1	22.15
2A Stone	538990	21.67	1	21.67
2A Stone	539000	22.31	1	22.31
2A Stone	539010	21.84	1	21.84
2A Stone	539019	21.77	1	21.77
2A Stone	539029	22.55	1	22.55
2A Stone	539037	21.81	1	21.81
2A Stone	539044	22.32	1	22.32
2A Stone	538791	22.02	1	22.02
2A Stone	538799	21.89	1	21.89
2A Stone	538808	21.63	1	21.63
2A Stone	538819	21.25	1	21.25
2A Stone	538825	22.42	1	22.42
2A Stone	538831	22.45	1	22.45
2A Stone	538838	21.64	1	21.64
2A Stone	538848	20.88	1	20.88
2A Stone	538855	21.47	1	21.47
2A Stone	538864	21.69	1	21.69
2A Stone	538875	22.11	1	22.11
2A Stone	538885	22.50	1	22.5
2A Stone	538895	22.01	1	22.01
2A Stone	538892	23.62	1	23.62
2A Stone	538883	23.55	1	23.55
2A Stone	538874	23.89	1	23.89
2A Stone	538863	23.48	1	23.48

Product	BOL #	Tons per load	Number of Loads on ticket	Total Tons on Ticket
2A Stone	538854	24.17	1	24.17
2A Stone	538846	24.04	1	24.04
2A Stone	538836	21.81	1	21.81
2A Stone	538829	23.39	1	23.39
2A Stone	538824	23.92	1	23.92
2A Stone	538818	23.63	1	23.63
2A Stone	538805	24.14	1	24.14
2A Stone	538798	24.47	1	24.47
2A Stone	538792	23.85	1	23.85
2A Stone	538894	24.66	1	24.66
2A Stone	538880	24.25	1	24.25
2A Stone	538871	23.59	1	23.59
2A Stone	538857	23.97	1	23.97
2A Stone	537199	23.87	1	23.87
Total Tons Stone				3394.71

APPENDIX H

Public Notices

ARM Group Inc.
Earth Resource Engineers and Consultants

September 22, 2008

Kathleen Horvath, P.G.
Pennsylvania Dept. of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

Re: Notice of Intent to Remediate
Northwest Triangle Initiative
City of York, PA

Dear Ms. Horvath:

Please see the attached Notice of Intent to Remediate (NIR) for the Northwest Triangle property located in the City of York, York County, Pennsylvania. In addition to the NIR, copies of the municipal notification letter, site figure, newspaper submission, proof of publication, and certified mail receipt are also provided. This information is being submitted by ARM Group, Inc. (ARM) on behalf of the Redevelopment Authority of the City of York. The site figure was previously submitted electronically per the NIR instructions.

If you have any questions, please contact the undersigned at 717-508-0521. Thanks!

Sincerely,

Stephen B. Fulton, P.E., P.G.
Vice President, Environmental Services

Attachments:
1 – Notice of Intent to Remediate (including Site Map)
2 – Newspaper Notice and Proof of Publication
3 – Municipal Notification Letter and Certified Mail Receipt

Cc: City of York Redevelopment Authority

1129 West Governor Road • P.O. Box 797 • Hershey, PA 17033-0797
voice: (717) 533-8600 • fax: (717) 533-8605 • e-mail: info@armgroup.net

2530-FM-BWM0019 Rev. 10/2006

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

NOTICE OF INTENT TO REMEDIATE

Act 1995-2 requires 4 general informational items to be included in the NIR: the general location, listing of contaminants, intended use of the property, and proposed remediation measures. In addition attach a site map if available.

Property Name City of York Northwest Triangle Initiative

Address/Location Multiple Properties and Pacrels in the northwest corner of the City of York (see below)

City York **Zip Code** 17401

Municipality (if more than one, list all) City of York

County York

Latitude 39 °(deg.) 57 '(min) 54 "(sec) **Longitude** 76 °(deg.) 43 '(min) 53 "(sec)

Horizontal Collection Method: Terrain Navigator Mapping Program

Horizontal Reference Datum: NAD83 **Reference Point:** 216 N. Beaver St.

Wish to participate in the DEP/EPA MOA: ☐

Contact Dave Hess at dahess@state.pa.us for details.

EPA ID Number, if known:

Provide a general description of the site contamination in plain language (e.g. fuel oil spill, historical chemical industrial area contamination), the names of any known primary contaminants to be addressed, and the intended future use of the property:

The Site is bounded to the west by Philadelphia Street and the Codorus Creek, north and east along the Codorus Creek to North George Street, south to approximately 75 feet north of North Street, east 300 feet, south to North Street, west to North George Street, and to the south and east to Philadelphia Street. The area is bisected by North Beaver Street. The area is more thoroughly described as follows:

BEGINNING at a point on the west bank of the Codorus Creek extending east along the south side of West Philadelphia Street approximately 1,290 feet; extending north approximately 310 feet along the east side of Cherry Lane to the north side of West Gas Avenue; extending west along the north side of West Gas Avenue approximately 128 feet to the east side of Cherry Lane; extending north along the east side of Cherry Lane approximately 713 feet to the south side of West North Street; extending east along the south side of West North Street to the east side of North George Street; extending north along the east side of North George Street to the north side of Hamilton Avenue; extending west along the north side of Hamilton Avenue to the east side of Snyder Place; extending north along the east side of Snyder Place approximately 107 feet to the north side of Lowell Place; extending west along the north side of Lowell Place approximately 204 feet; extending south approximately 75 feet; extending west approximately 67 feet to the west side of Cherry Lane; extending south along the west side of Cherry Lane approximately 160 feet to the north side of Hamilton Avenue; extending southwest along the north side of Hamilton Avenue approximately 258 feet to the west side of North Beaver Street; extending south along the west side of North Beaver Street approximately 253 feet to the north side of the Army Corp of Engineers' easement along the north bank of the Codorus Creek; extending south along the north side of the Army Corp of Engineers' easement along the north bank of the Codorus Creek approximately 1,800 feet to the north side of West Philadelphia Street. A separated lot includes the parcel extending approximately 75 feet to the north of East North Street and approximately 300 feet west of George Street. (Approximately 22 acres).

The various properties that comprise the project site have had a variety of previous uses. In general, the area is a comprised of mixed commercial, industrial and residential properties that include: a former auto body, a rail yard, a storage yard and materials blending facility, a dye and pigments manufacturing facility, some townhomes, and some other light industrial and warehousing activities.

Contaminants are present in the soils and potentially groundwater at the site as a result of past industrial and commercial activities, including coal storage, railroad operations, releases from previous fuel storage areas and underground tanks, and related conditions. Identified contaminants of concern at the site include petroleum constituents (e.g., benzene) in shallow and deeper soils, and heavy metals (most notably arsenic, chromium, and lead) in shallow soils.

The proposed future use of the area is mixed residential, commercial and light industrial uses. The Northwest Triangle is part of a larger redevelopment project (apprpximately 45 acres) that is being completed by the City of York.

Provide a general description of proposed remediation measures: The proposed remedial measures are expected to include the removal of underground storage tanks, the excavation and off-site recycling or disposal of shallow contaminated soils, and engineering and institutional controls (capping and deed restrictions) where required to accommodate the proposed future use and to meet the selected cleanup standard.

It is expected that soil and groundwater will be remediated to a combination of Statewide Health and Site-Specific standards. A Non-Use Aquifer determination may also be completed for the area if warranted by groundwater monitoring results.

Will remediation be to a site-specific standard ☒ or as a special industrial area ☐? If so, the municipality or municipalities must be provided 30-day comment period.
Remediator/Property Owner/Consultant. For each of these recipients of the approval of the final report, complete form below.

Remediator
Contact Person: Steve Fulton
Relationship to site (e.g. owner, remediator, participating in cleanup, consultant): Consultant
Phone Number: 717-508-0521
Company Name: ARM Group, Inc.
Address (street, city, state, zip): 1129 W. Governor Rd, PO Box 797, Hershey, PA 17033
Email Address: sfulton@armgroup.net
Property Owner
Contact Person: Matthew Jackson, Esq.
Relationship to site (e.g. owner, remediator, participating in cleanup, consultant): Redevelopment Director
Phone Number: 717-849-2223
Company Name: City of York Redevelopment Authority
Address (street, city, state, zip): 49 East Market Street, York, Pennsylvania, 17401

Email Address: mjackson@yorkcity.org
Consultant
Contact Person: Steve Fulton
Relationship to site (e.g. owner, remediator, participating in cleanup, consultant): Consultant
Phone Number: 717-508-0521
Company Name: ARM Group, Inc.
Address (street, city, state, zip): 1129 W. Governor Rd, PO Box 797, Hershey, PA 17033
Email Address: sfulton@armgroup.net

Preparer of Notice of Intent to Remediate:

Name: Dan Buterbaugh

Title: Project Geologist

Address: 1129 W. Governor Road, PO Box 797
Hershey, PA 17033

Telephone: 717-508-0532

Email Address: dbuterbaugh@armgroup.net

Email Image File of Site Map showing property lines and general area of site(s) to be remediated to: (landrecycling@state.pa.us)

Proof of Publication
State of Pennsylvania
County of York

AD # 1990857

Copy of Advertisement Attached Here

Public Notice of Intent to Remediate to an Environmental Standard

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 19, 1995, P.L. 4, No. 1995-2. , notice is hereby given that ARM Group Inc. (ARM), on behalf of the City of York Redevelopment Authority (RDA), has submitted to the Pennsylvania Department of Environmental Protection (P-ADEP) a Notice of Intent to Remediate (NIR) a section of the City of York referred to as the Northwest Triangle, which is bounded to the west by Philadelphia Street and the Codorus Creek, north and east along the Codorus Creek to North George Street, south to approximately 75 feet north of North Street, east approximately 300 feet, south to North Street, west to North George Street, and to the south and east to Philadelphia Street. The area is bisected by North Beaver Street in the City of York, York County. The NIR states that the site was formerly a mix of industrial and commercial properties, including a rail yard, auto body shop, storage yard, materials blending facility, dye and pigments manufacturing facility, some townhomes, and some other light industrial and warehousing activities. Historical activities have resulted in the release of regulated substances, including petroleum hydrocarbons and some metals, to soils and groundwater at the site. The City of York RDA is proposing to remediate the affected soil and groundwater through a combination of removal, natural attenuation, and pathway elimination methods. The proposed future use of the area will include mixed residential, commercial, and light industrial uses.

The City of York RDA proposed to use a combination of cleanup standards at the site, including the Statewide Health and Site-Specific standards. The Act provides for a 30-day public comment period for site-specific standard remediations. The 30-day comment period is initiated with the publication of this notice. Until October 5, 2008, the City of York may submit a request to the RDA to be involved in the development of the remediation and reuse plans for the site. The City of York may also submit a request to the RDA during this 30-day comment period to develop and implement a public involvement plan. The RDA can be contacted through ARM Group Inc. at P.O. Box 797, Hershey, PA 17033-0797, attn: Steve Fulton. Copies of these requests and of any comments should also be submitted to the Pennsylvania Department of Environmental Protection, Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA, 17110-8200, attn: Ms. Kathleen Horvath.

THE YORK DISPATCH / YORK SUNDAY NEWS and YORK DAILY RECORD are the names of the daily newspapers of general circulation published continuously for more than the last six months by York Newspaper Company, at its principal place of business, which is 1891 Loucks Road, York, PA 17404.

The printed copy of the advertisement hereto attached is a true copy, exactly as printed and published, of an advertisement printed in the regular issues of the said **The York Dispatch/York Sunday News and York Daily Record** published on the following dates, viz:

09/05/2008

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF YORK **SS**

Before me, a Notary Public, personally came Tamara J. Krebs who being duly sworn deposes and says that she is the Classified Advertising Director of York Newspaper Co., and has personal knowledge of the publication of the advertisement mentioned in the foregoing statement as to the time, place and character of publications are true, and that the affiant is not interested in the subject matter of the above mentioned advertisement.

Sworn and subscribed to before me this

05 day of September 2008

Sharon K. Wentz
Notary Public

Tamara J. Krebs

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Sharon K. Wentz, Notary Public
West Manchester Twp., York County
My Commission Expires Mar. 1, 2009
Member, Pennsylvania Association of Notaries

Estate of _____

_____ Dollars
100

The charge for the publication of above mentioned advertisement and the expense of above affidavit.

Advertisement Cost	$ 358.40
Affidavit Fee	$ 5.00
Total Cost	$ 363.40

Public Notice of Intent to Remediate to an Environmental Standard

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 19, 1995, P.L. 4, No. 1995-2. , notice is hereby given that ARM Group Inc. (ARM), on behalf of the City of York Redevelopment Authority (RDA), has submitted to the Pennsylvania Department of Environmental Protection (PADEP) a Notice of Intent to Remediate (NIR) a section of the City of York referred to as the Northwest Triangle, which is bounded to the west by Philadelphia Street and the Codorus Creek, north and east along the Codorus Creek to North George Street, south to approximately 75 feet north of North Street, east approximately 300 feet, south to North Street, west to North George Street, and to the south and east to Philadelphia Street. The area is bisected by North Beaver Street in the City of York, York County. The NIR states that the site was formerly a mix of industrial and commercial properties, including a rail yard, auto body shop, storage yard, materials blending facility, dye and pigments manufacturing facility, some townhomes, and some other light industrial and warehousing activities. Historical activities have resulted in the release of regulated substances, including petroleum hydrocarbons and some metals, to soils and groundwater at the site. The City of York RDA is proposing to remediate the affected soil and groundwater through a combination of removal, natural attenuation, and pathway elimination methods. The proposed future use of the area will include mixed residential, commercial, and light industrial uses.

The City of York RDA proposed to use a combination of cleanup standards at the site, including the Statewide Health and Site-Specific standards. The Act provides for a 30-day public comment period for site-specific standard remediations. The 30-day comment period is initiated with the publication of this notice. Until October 5, 2008, the City of York may submit a request to the RDA to be involved in the development of the remediation and reuse plans for the site. The City of York may also submit a request to the RDA during this 30-day comment period to develop and implement a public involvement plan. The RDA can be contacted through ARM Group Inc. at P.O. Box 797, Hershey, PA 17033-0797, attn: Steve Fulton. Copies of these requests and of any comments should also be submitted to the Pennsylvania Department of Environmental Protection, Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA, 17110-8200, attn: Ms. Kathleen Horvath.

ARM Group Inc.
Earth Resource Engineers and Consultants

September 3, 2008

CERTIFIED MAIL NO.: 7007 3020 0002 4873 3361

City of York
City Hall
50 W. King St.
York, PA 17401

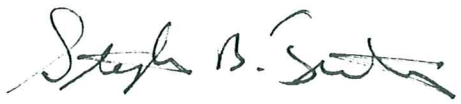
Re: Notice of Intent to Remediate
Northwest Triangle Initiative Project
City of York
York County, Pennsylvania
ARM Project 07214

Dear Municipal Official:

The Land Recycling and Environmental Remediation Standards Act (Act 2) requires that a Notice of Intent to Remediate (NIR) be provided to the municipality in which the site is located. Act 2 also provides that when a site is being remediated to a Site-Specific Standard, the municipality is afforded a 30-day comment period. In accordance with the provisions of the Act, and on behalf of the City of York Redevelopment Authority, we are formally notifying you of our intent to remediate the subject site. A copy of the NIR, which will be sent to the Pennsylvania Department of Environmental Protection (PADEP), is enclosed. This notice will be published in the Pennsylvania Bulletin, and a summary of the notice will appear in a local newspaper (the York Daily Record).

Publication in a local newspaper initiates the 30-day public and municipal comment period. During this time, your municipality may request to become involved in the development of the remediation and reuse plans for the site. In the event your municipality desires to become further involved in this project, please forward your request and comments to the undersigned.

Sincerely,
ARM Group Inc.



Stephen B. Fulton, P.E., P.G.
Vice President, Environmental Services

Enclosure – Notice of Intent to Remediate
cc: Matthew Jackson, Esq., City of York Redevelopment Authority

1129 West Governor Road • P.O. Box 797 • Hershey, PA 17033-0797
voice: (717) 533-8600 • fax: (717) 533-8605 • e-mail: info@armgroup.net

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

City of York
City Hall
50 W. King St.
York, PA 17401-1420

COMPLETE THIS SECTION ON DELIVERY

A. Signature
Raymond Kmec ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery
RAYMOND KMEC

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

YORK PA SEP 5 2008 USPS

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7007 3020 0002 4873 3361

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

Pennsylvania Department of Environmental Protection

909 Elmerton Avenue
Harrisburg, PA 17110-8200
September 19, 2008

717-705-4705
FAX 717-705-4830

Southcentral Regional Office

Matthew Jackson, Esquire
City of York Redevelopment Authority
49 East Market Street
York, PA 17401

Re: Notice of Intent to Remediate
Site-Specific and Statewide Health Standards
Northwest Triangle – City of York
eFACTS PF # 711356
Properties and Parcels bounded by
Philadelphia Street, Codorus Creek,
North George Street and North Street
City of York, York County

Dear Mr. Jackson:

This letter acknowledges receipt of your Notice of Intent to Remediate (NIR) on September 3, 2008, pertaining to the subject site and submitted in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2). The procedures set forth in Act 2 must be followed in order for this site to qualify for the liability protection provided by the Act. Please note that proper municipal and public notifications of this NIR, which include a 30-day comment period, are required. The Department of Environmental Protection (Department) will not accept plans and reports until after the 30-day comment period.

Sites remediated to a site-specific standard shall provide for a 30-day comment period following submission of the NIR, during which time the municipality may request to be involved in development of remediation and reuse plans for the site. If the municipality requests a public involvement plan, any comments and responses must be included in any subsequent reports.

Technical and program information can be found at: www.dep.state.pa.us (DEP Keyword: Land Recycling). Please note some of the information that is available from this web page:

- Statutes and Regulations.
- Guidance and Technical Tools. Includes a link to the Technical Guidance Manual.
- Forms and Lists.
    - A copy of the "Transmittal Sheet for Plan/Report Submission" should be included with any plans or reports that you submit.

  - Includes optional checklists helpful in assuring reports are complete before submittal. DEP uses the checklists to perform technical completeness reviews when plans and/or reports are submitted.
  - Includes Deed Notice and Environmental Covenant language.
- Conferences and Act 2 Training opportunities.

Remedial investigation reports, risk assessment reports, cleanup plans, and final reports submitted to the Department under the site specific standard need to be accompanied by the required fees. Include documentation verifying compliance with the public notification requirements. The Forms and Lists web page includes an online final report summary form. This form should be completed and submitted upon final report approval.

Please note the recently enacted Uniform Environmental Covenants Act (Act 68 of 2007), Title 27, Pa.C.S. Chapter 65 (UECA), became effective on February 19, 2008. This law provides a standardized process for creating, documenting and assuring the enforceability of activity and use limitations on contaminated sites involving engineering and institutional controls used to achieve Act 2 standards. The Department's approval of a Final Report may need to be supported by an environmental covenant. The Department will need to approve such covenants before submittal of any Final Report. Two signed copies of the environmental covenant will need to be submitted with the Final Report, and then recorded on deeds of affected properties. Further information about UECA may be found on the Department's web site at http://www.depweb.state.pa.us, under the key word Land Recycling.

The Department and the County Conservation Districts (CCD) are coordinating their respective reviews of Act 2 Remediation and Erosion & Sedimentation (E&S) Plans to ensure compliance with Chapter 102 and the National Pollutant Discharge Elimination System (NPDES) permitting requirements. Certain earthmoving activities associated with Act 2 remediation, demolition, and site redevelopment are regulated to prevent sediment pollution and release of contaminants to area waterways. These activities include:

- Where earthmoving activities are less than 5,000 square feet, E&S Best Management Practices will be followed.
- Earthmoving impacting 5,000 square feet to one acre must prepare an E&S Plan meeting the requirements of Chapter 102 and the E&S Manual. The plan must be available onsite for inspection and may need approval.
- Earthmoving impacting or disturbing more than one acre requires an NPDES Stormwater Permit and/or E&S Plan approvals. Do not initiate any earth disturbance activities until a NPDES permit is issued.

NPDES Permit applications for site remediation/redevelopment conducted under Act 2 are to be submitted to the respective CCD in which the site is located. Attach a copy of this letter to Plans/Permit

applications being submitted to the Watershed Management Program or the CCD. Further guidance can be located on the program's website.

As a reminder, any project requiring a Department permit will need to go through a Pennsylvania Natural Diversity Index (PNDI) screening and have any potential conflicts with threatened and endangered species resolved prior to submitting an application.

Mr. F. William, Noll is the project officer assigned to your project and will be working with you towards the remediation of this site. Frequent contact is encouraged between your representatives and our staff. If you have any questions or need further clarifications of our procedures, please call Mr. Noll at 717-705-4851.

Sincerely,

Kathleen G. Horvath

Kathleen G. Horvath, P.G.
Chief, Special Projects Section
Environmental Cleanup Program

cc: Denise Brinley, DEP
Tracey Vernon, DEP
Steve Fulton, ARM Group, Inc.
York County Conservation District
City of York

email: Nick Molina, DEP

baf

ARM Group Inc.
Earth Resource Engineers and Consultants

January 8, 2010

Certified Mail Tracking Number: 7008 1140 0004 8931 4730

City of York
City Hall
50 W. King St.
York, PA 17401

Re: Northwest Triangle Initiative Project
City of York
York County, PA
Municipal Notification

Dear Municipal Official,

Notice is hereby given that ARM Group, Inc. (ARM), on behalf of the City of York Redevelopment Authority (RDA), has submitted an Act 2 Final Report to the Pennsylvania Department of Environmental Protection, to demonstrate attainment of the statewide health cleanup standard for the Stage One Properties at the Northwest Triangle site, which is bounded by Philadelphia Street, Codorus Creek, North George Street, and North Street in the City of York, York County, Pennsylvania. ARM has indicated that soil at the facilities has attained compliance with the statewide health cleanup standard under the Land Recycling and Environmental Remediation Standards Act.

This notice is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. #4, No. 2.

Sincerely,

Stephen B. Fulton. P.E., P.G.
Project Manager

cc: Kevin Shreiber – RDA

1129 West Governor Road • P.O. Box 797 • Hershey, PA 17033-0797
voice: (717) 533-8600 • fax: (717) 533-8605 • e-mail: info@armgroup.net

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CITY OF YORK
CITY HALL
50 W. KING ST.
YORK, PA 17401

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery
1-19-10

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

PA 17405
JAN 19 2010
USPS

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7008 1140 0004 8931 4730

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

Proof of Publication
State of Pennsylvania
County of York

AD # 2081172

Copy of Advertisement Attached Here

NOTIFICATION OF RECEIPT OF FINAL REPORT

Notice is hereby given that ARM Group, Inc. (ARM), on behalf of the City of York Redevelopment Authority, has submitted an Act 2 Final Report to the Pennsylvania Department of Environmental Protection, to demonstrate attainment of the statewide health cleanup standard for the section of the City of York referred to as the Stage One Properties at the Northwest Triangle, bounded by Philadelphia Street, Codorus Creek, North George Street, and North Street in the City of York, York County, Pennsylvania. ARM has indicated that soil at the facilities has attained compliance with the statewide health cleanup standard under the Land Recycling and Environmental Remediation Standards Act.

This notice is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. #4, No. 2.

THE YORK DISPATCH / YORK SUNDAY NEWS and YORK DAILY RECORD are the names of the daily newspapers of general circulation published continuously for more than the last six months by York Newspaper Company, at its principal place of business, which is 1891 Loucks Road, York, PA 17408.

The printed copy of the advertisement hereto attached is a true copy, exactly as printed and published, of an advertisement printed in the regular issues of the said **The York Dispatch/York Sunday News and York Daily Record** published on the following dates, viz:

01/14/2010

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF YORK **SS**

Before me, a Notary Public, personally came Linda Smith who being duly sworn deposes and says that she is the Layout Supervisor of York Newspaper Co., and has personal knowledge of the publication of the advertisement mentioned in the foregoing statement as to the time, place and character of publications are true, and that the affiant is not interested in the subject matter of the above mentioned advertisement.

Sworn and subscribed to before me this

14 day of January 2010

Sharon K. Wentz
Notary Public

Linda Smith

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Sharon K. Wentz, Notary Public
West Manchester Twp., York County
My Commission Expires March 1, 2013
Member, Pennsylvania Association of Notaries

Estate of _____

_____ Dollars
100

The charge for the publication of above mentioned advertisement and the expense of above affidavit.

Advertisement Cost	$ 142.40
Affidavit Fee	$ 5.00
Total Cost	$ 147.40