SIXTH PROGRESS REPORT
NORFOLK SOUTHERN RAILWAY COMPANY
OLD ATHENS TURNPIKE LEAD SITE
OLD ATHENS ROAD
PRINCETON, WEST VIRGINIA
NSRC FILE NO. SA08-253-001

October 15, 2009

Prepared For:

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TABLE OF CONTENTS **PAGE**

1.0 INTRODUCTION

This Progress Report was prepared on behalf of Norfolk Southern Railway Company (NSRC) by Marshall Miller & Associates (MM&A). The Progress Report describes response actions in accordance with Section 8.7 of the Administrative Settlement and Order on Consent for Removal Response Action, hereafter referred to as the Settlement Agreement (SA), between the United States Environmental Protection Agency (USEPA) and NSRC. The effective date of the SA was July 2, 2009. Response actions are being performed in the Old Athens Turnpike right-of-way in accordance with the Response Action Plan (RAP) submitted to USEPA on July 6, 2009, as amended on July 16, 2009. NSRC received USEPA's July 29, 2009 approval of the RAP, as well as notification of access to the portion of the Site not owned by NSRC, on July 31, 2009. In accordance with the SA, NSRC commenced on-site implementation of the RAP on August 5, 2009, within seven business days of receipt of the RAP approval and access notification. NSRC submitted the First Progress Report on August 6, 2009, the Second Progress Report on August 20, 2009, the Third Progress Report on September 3, 2009, the Fourth Progress Report on September 17, 2009, and the Fifth Progress Report on October 1, 2009, each providing information on activities performed during the fourteen days following the respective prior progress report. In accordance with the SA, this Sixth Progress Report provides information on activities performed during the fourteen days following the Fifth Progress Report.

The Old Athens Turnpike right-of-way (hereafter referred to as the R-O-W) is located in Princeton, Mercer County, West Virginia. For purposes of the RAP, the Site consists of (1) a portion of the R-O-W (approximately 50 feet wide by 300 feet long) adjacent to the former salvage facility (referred to herein as the S.S. Belcher property) that was operated by S.S. Belcher & Company (S.S. Belcher) on NSRC property, and (2) a small overwash area (approximately 30 feet wide by 50 feet long) located on NSRC's property formerly leased to S.S. Belcher. NSRC owns Parcel Number 9 in Princeton, Mercer County, West Virginia, which extends southwestward to the centerline of the former R-O-W. Access to the portion of the Site not owned by NSRC was granted to USEPA by a warrant issued on July 23, 2009. USEPA notified NSRC of the issuance of the warrant granting NSRC access, as

USEPA's agent for that purpose, by letter dated July 29, 2009. Lead-impacted surface soil is being assessed and remediated at the R-O-W in accordance with the approved RAP.

2.0 RESPONSE ACTIONS COMPLETED DURING REPORTING PERIOD

In accordance with the SA and RAP, MM&A has completed the following activities during this reporting period:

1. Maintained high visibility security fencing and keep out signs installed at the R-O-W to deter access by persons not conducting or overseeing the response actions, to preclude interference with the performance of the response activities and to provide for safety of the public during non-working hours.

2. MM&A prepared and analyzed the 12 soil samples collected from G-27, G-29, G-33 and G-34 on September 24, 2009, using an x-ray fluorescence (XRF) instrument to confirm the delineation of the extent of total lead concentrations in the R-O-W before excavation commences (**Map 1, Appendix A**). One split soil sample, a matrix spike, matrix spike duplicate and rinsate blank sample were submitted to Lancaster Laboratories for analysis of total lead.

3. Gravel was spread in Grids 1 and 3 to provide a loading area within the excavation footprint. The gravel surface provided a stable and clean surface upon which trucks were loaded. An exclusion zone (EZ) was established around the perimeter of the excavation footprint. A contaminant reduction zone (CRZ) was set up at the southwestern end of the R-O-W. The ground surface of the CRZ was covered with polyethylene sheeting.

4. Approximately 400 yd^3 of lead-impacted soil and debris (battery casings) was excavated and transported off-site as hazardous waste by U.S. Bulk Transportation, Inc. The waste was transported to the Max Environmental Technologies, Inc. facility (Max Environmental) for recycling/disposal. Max Environmental is located at 233 Max Lane in Yukon, Pennsylvania. Max Environmental operates under Permit PAD004835146.

Soil and debris in excess of the cleanup goal in close vicinity of large tree roots or boulders were removed using hand tools (shovels, trowels). Soil and debris in excess of the cleanup goal very close to large tree roots or boulders that could not be effectively removed will be covered with clean material during backfilling.

3.0 PROBLEMS ENCOUNTERED OR ANTICIPATED

None

4.0 ACTIONS TO PREVENT OR MITIGATE PROBLEMS

None needed.

5.0 SCHEDULE FOR COMPLETING PROBLEM MITIGATION

None

6.0 COPIES OF ANALYTICAL DATA

Preliminary XRF analytical results are included as **Appendix B**. No new laboratory analytical data was received.

7.0 RESPONSE ACTION PLAN MODIFICATIONS

Since additional time was required for excavating around larger than anticipated areas of bedrock and to arrange for hazardous waste soil disposal, a four week extension in the excavation of soil and post-excavation soil sampling phase is requested. No other modifications were made to the response action, the RAP or the schedule.

8.0 REMEDIAL ACTIONS OVER NEXT FOURTEEN DAYS

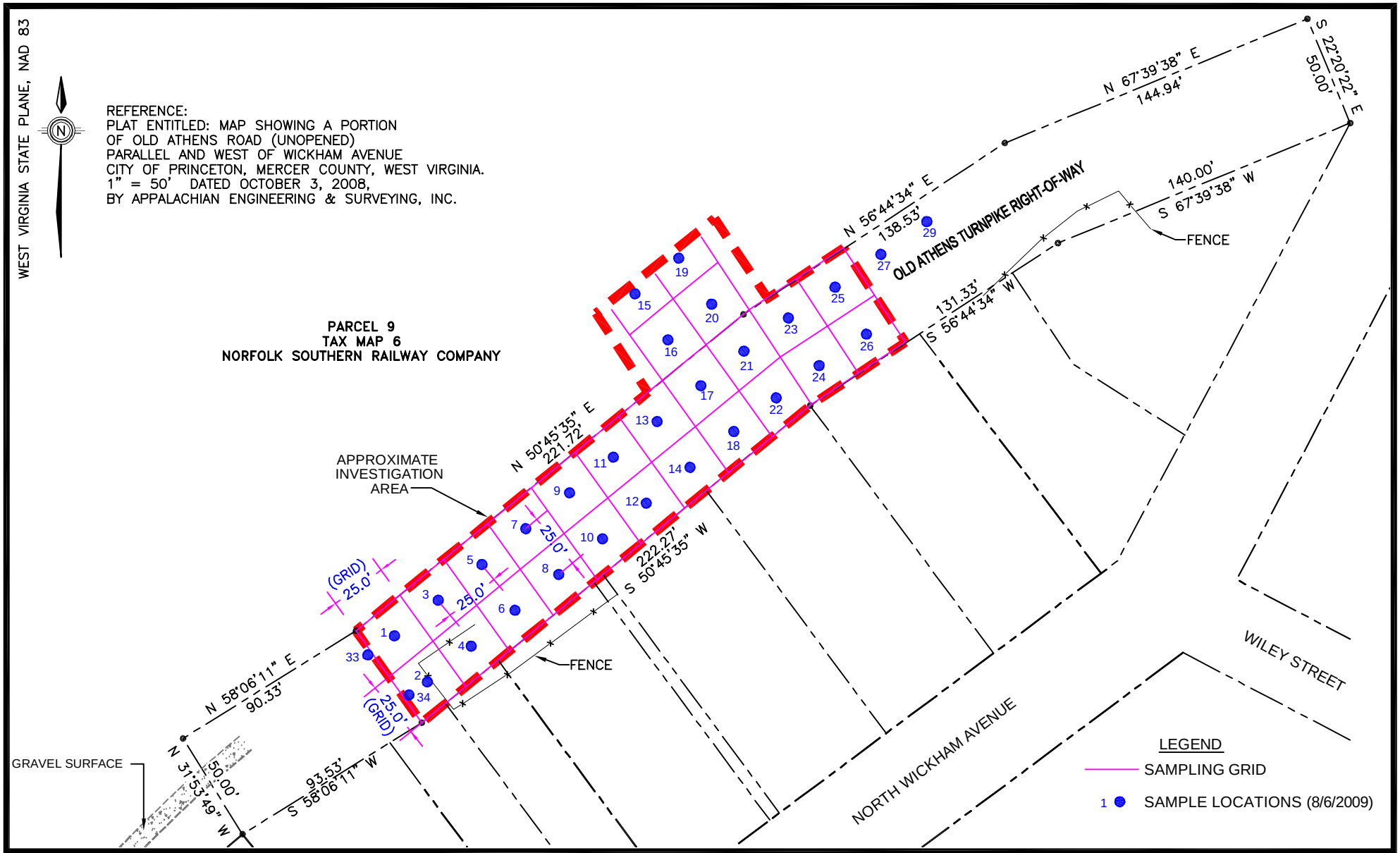
The following response actions are anticipated to be completed in the next fourteen days in accordance with the schedule included in the RAP:

1. Post-excavation confirmation soil samples will be collected and analyzed for total lead. Confirmation sampling of soil will consist of establishing a sampling grid system using 625 ft^2 (25 ft by 25 ft) grid squares across the excavated area and conducting in situ XRF screening of soil at the center and nodes of each 625 ft^2 grid square. One prepared XRF sample will be collected from the location having the highest in situ screening reading within each 625 ft^2 grid square. Where screening results are within 60 percent of the cleanup goal of 400 mg/kg (≥240 mg/kg), a soil sample will be collected and submitted to Lancaster Laboratories for analysis of total lead in accordance with USEPA Method 6010C. Although XRF protocol according to USEPA Method 6200 requires that five percent (1:20) of prepared XRF samples be submitted for laboratory analysis, at least 10

percent (1:10) of prepared XRF confirmation samples will be submitted for laboratory analysis of total lead using USEPA Method 6010C. In the event that XRF analysis and laboratory analysis conflict, laboratory analytical results will be utilized.

2. Backfilling of the excavation will be completed using clean fill material from the Green Valley Site in accordance with Item 14 of Section 2.1 of the RAP, including sampling requirements, and ground cover will be placed in accordance with Item 15 of Section 2.1 of the RAP. The average dry weight XRF total lead concentration will be calculated from all post-excavation confirmation soil samples and compared to the Site cleanup goal of 400 mg/kg for average total lead. If the average dry weight XRF total lead concentration for post-excavation soil samples is above 400 mg/kg at a depth of three feet below the surface, a filter fabric or liner will be placed over the affected areas and the excavation will be backfilled using clean material. If the average dry weight XRF total lead concentration for post-excavation soil samples is below 400 mg/kg, the excavation will be backfilled using clean material without a fabric filter or liner. If needed, the filter fabric will consist of Geotex® unwoven GEOTEX® 651 or an equivalent product. GEOTEX® 651 is made from the highest quality polypropylene fibers and is designed for environmental use in stabilization and erosion control.

Appendix A
Map



MAP 1 - SAMPLE LOCATIONS
OLD ATHENS TURNPIKE
PRINCETON, WEST VIRGINIA

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

Prepared By:
MARSHALL MILLER & ASSOCIATES

60' 0 60'
1" = 60'

Appendix B
Tables

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

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

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OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	In Situ Results		Prepared Results		Laboratory Results ppm	Notes
					XRF ppm	Error ppm	XRF ppm	Error +/- ppm		
G-8B	8/6/2009	1358	0.5-1	JK/GR	86	13	93	14	NA	none
G-8C	8/6/2009	1358	1-2	JK/GR	<9.8	NA	<11.5	NA	NA	none
G-8D	8/6/2009	1358	2-2.5	JK/GR	23	9	36	11	NA	Direct-push refusal on bedrock
G-9A	8/6/2009	1233	0-0.5	JK/GR	**7040**	115	**16600**	200	NA	none
G-9B	8/6/2009	1233	0.5-1	JK/GR	**47600**	400	**78300**	800	NA	none
G-9C	8/6/2009	1233	1-2	JK/GR	135	17	146	18	NA	none
G-9D	8/6/2009	1233	2-3	JK/GR	93	14	217	23	NA	none
G-10A	8/6/2009	1405	0-0.5	JK/GR	58	11	139	17	NA	none
G-10B	8/6/2009	1405	0.5-1	JK/GR	34	10	202	19	NA	none
G-10C	8/6/2009	1405	1-2	JK/GR	<13.0	NA	21	10	NA	none
G-10D	8/6/2009	1405	2-3	JK/GR	<12.1	NA	18	10	NA	none
G-11A	8/6/2009	1415	0-0.5	JK/GR	281	25	979	40	NA	none
G-11B	8/6/2009	1415	0.5-1	JK/GR	<11.3	NA	25	11	NA	none
G-11C	8/6/2009	1415	1-2	JK/GR	<8.1	NA	<12.8	NA	NA	none
G-12A	8/6/2009	1425	0-0.5	JK/GR	51	10	82	14	NA	none
G-12B	8/6/2009	1425	0.5-1	JK/GR	29	9	31	11	NA	none
G-12C	8/6/2009	1425	1-2	JK/GR	<9.9	NA	20	9	NA	none
G-12D	8/6/2009	1425	2-2.75	JK/GR	<7.4	NA	<10.6	NA	NA	none
G-13A	8/6/2009	1432	0-0.5	JK/GR	**716**	33	**771**	37	NA	none
G-13B	8/6/2009	1432	0.5-1	JK/GR	18	9	39	11	NA	none
G-13C	8/6/2009	1432	1-2	JK/GR	12	8	45	12	NA	Direct-puch refusal on bedrock
G-14A	8/6/2009	1440	0-0.5	JK/GR	66	11	124	15	NA	none
G-14B	8/6/2009	1440	0.5-1	JK/GR	67	13	106	15	NA	none
G-14C	8/6/2009	1440	1-2	JK/GR	<9.9	NA	<11.4	NA	NA	none
G-14D	8/6/2009	1440	2-2.2	JK/GR	<8.4	NA	14	9	NA	Direct-push refusal on bedrock
G-15A	8/6/2009	1446	0-0.5	JK/GR	**624**	29	370	25	NA	none
G-15B	8/6/2009	1446	0.5-1	JK/GR	67	14	78	13	NA	none
G-15C	8/6/2009	1446	1-2	JK/GR	26	11	70	13	NA	none
G-15D	8/6/2009	1446	2-3	JK/GR	16	10	76	14	NA	none
G-16A	8/6/2009	1453	0-0.5	JK/GR	**718**	32	**971**	39	NA	none
G-16B	8/6/2009	1453	0.5-1	JK/GR	<10.7	NA	17	9	NA	none
G-16C	8/6/2009	1453	1-2	JK/GR	<10.6	NA	15	9	NA	none

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OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	In Situ Results		Prepared Results		Laboratory Results ppm	Notes
					XRF ppm	Error ppm	XRF ppm	Error +/- ppm		
G-16D	8/6/2009	1453	2-3	JK/GR	318	33	229	19	231	XRF to Lab Split for G-16D
G-16E (G-16D Split)	8/6/2009	1453	2-3	JK/GR	213	19	224	19	NA	XRF to XRF Split for G-16D
G-17A	8/6/2009	1500	0.25	JK/GR	**24700**	200	**30900**	300	NA	none
G-18A	8/6/2009	1505	0-0.5	JK/GR	54	10	162	17	NA	none
G-18B	8/6/2009	1505	0.5-1	JK/GR	56	11	57	12	NA	Direct-push refusal on bedrock
G-19A	8/6/2009	1510	0-0.5	JK/GR	139	15	259	21	NA	none
G-19B	8/6/2009	1510	0.5-1	JK/GR	<11.3	NA	<11.7	NA	NA	none
G-19C	8/6/2009	1510	1-2	JK/GR	<10.5	NA	<12.8	NA	NA	none
G-19D	8/6/2009	1510	2-3	JK/GR	<9.9	NA	<12.8	NA	NA	none
G-20A	8/6/2009	1518	0-0.5	JK/GR	**16900**	200	**101100**	900	NA	none
G-20B	8/6/2009	1518	0.5-1	JK/GR	208	19	90	17	NA	none
G-20C	8/6/2009	1518	1-2	JK/GR	13	8	21	9	NA	none
G-20D	8/6/2009	1518	2-2.75	JK/GR	**4638**	87	**1228**	44	NA	Direct-push refusal on bedrock
G-21A	8/6/2009	1525	0-0.5	JK/GR	**7062**	112	**14500**	200	NA	none
G-21B	8/6/2009	1525	0.5-1	JK/GR	49	10	747	38	NA	Direct-push refusal on bedrock
G-22A	8/6/2009	1532	0-0.5	JK/GR	54	8	75	13	67.0	XRF to Lab Split for G-22A
G-22E (G-22A Split)	8/6/2009	1532	0-0.5	JK/GR	45	11	80	13	NA	XRF to XRF Split for G-22A
G-22B	8/6/2009	1532	0.5-1	JK/GR	34	11	47	12	NA	none
G-22C	8/6/2009	1532	1-2	JK/GR	<10.2	NA	<12.1	NA	NA	none
G-22D	8/6/2009	1532	2-3	JK/GR	<11.2	NA	<11.5	NA	NA	none
G-23A	8/6/2009	1538	0-0.5	JK/GR	**768**	33	**1582**	53	NA	none
G-23B	8/6/2009	1538	0.5-1	JK/GR	**475**	28	**799**	40	NA	none
G-23C	8/6/2009	1538	1-1.5	JK/GR	**612**	31	**553**	32	NA	Direct-push refusal on bedrock
G-24A	8/6/2009	1545	0-0.5	JK/GR	85	12	228	30	NA	none
G-24B	8/6/2009	1545	0.5-1	JK/GR	38	10	62	14	NA	none
G-24C	8/6/2009	1545	1-2	JK/GR	23	9	<13.3	NA	NA	Direct-push refusal on bedrock
G-25A	8/6/2009	1552	0-0.25	JK/GR	**764**	31	**1676**	53	NA	Direct-push refusal on bedrock
G-26A	8/6/2009	1556	0-0.5	JK/GR	35	9	71	12	NA	none
G-26B	8/6/2009	1556	0.5-1	JK/GR	<12.3	NA	15	9	NA	none
G-26C	8/6/2009	1556	1-2	JK/GR	<12.3	NA	<13.6	NA	NA	none
G-26D	8/6/2009	1556	2-3	JK/GR	<10.8	NA	7	9	NA	none
G-27A	9/24/2009	1415	0-0.5	GR	238	27	380	50	NA	none

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SOIL ANALYSIS LOG
OLD ATHENS TURNPIKE SITE, PRINCETON, WEST VIRGINIA

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	In Situ Results		Prepared Results		Laboratory Results ppm	Notes
					XRF ppm	Error ppm	XRF ppm	Error +/- ppm		
G-27B	9/24/2009	1421	0.5-0.75	GR	147	29	253	43	NA	refusal on rock
G-29A	9/24/2009	1445	0-0.5	GR	228	33	364	44	NA	none
G-29B	9/24/2009	1449	0.5-1	GR	208	34	263	37	NA	none
G-29C	9/24/2009	1456	1-2	GR	71	21	153	32	NA	refusal on rock
G-33A	9/24/2009	1547	0-0.5	GR	94	28	146	31	NA	refusal on rock
G-34A	9/24/2009	1632	0-0.5	GR	50	18	66	23	NA	none
G-34B	9/24/2009	1639	0.5-1	GR	32	16	47	20	NA	none
G-34C	9/24/2009	1648	1-2	GR	57	19	34	17	not received	XRF to Lab Split for G-34C
G-34E (G-34C Split)	9/24/2009	1648	1-2	GR	39	18	26	16	NA	XRF to XRF Split for G-34C
G-34D	9/24/2009	1656	2-3	GR	37	18	63	22	NA	none
G-34D2	9/24/2009	1702	3-4	GR	33	18	71	23	NA	none
G-34D3	9/24/2009	1710	4-4.7	GR	38	16	62	22	NA	none

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

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

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

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

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

Sample Identification	Sample Date	Sample Time	Depth Interval (Feet)	Samplers	XRF Lead (ppm)	Lab Lead (ppm)	RPD (%)	Notes
G-1B	8/6/2009	1145	0-0.5	JK/GR	1727	1550	11%	Lab Split for XRF sample G-1B
G-1E	8/6/2009	1145	0-0.5	JK/GR	1741	NA	1%	XRF Split for XRF sample G-1B
G-1B MS	8/6/2009	1145	0-0.5	JK/GR	NA	3090/2690	NA	MS
G-1B MSD	8/6/2009	1145	0-0.5	JK/GR	NA	1550	NA	MSD
G-4A	8/6/2009	1210	0-0.5	JK/GR	368	383	4%	Lab Split for XRF sample G-4A
G-4E	8/6/2009	1145	0-0.5	JK/GR	395	NA	7%	XRF Split for XRF sample G-4A
G-7C	8/6/2009	1225	1-2	JK/GR	15600	9290	51%	Lab Split for XRF sample G-7C
G-7E	8/6/2009	1225	1-2	JK/GR	NA	9100	2%	Lab Split for Lab sample G-7C
G-7E	8/6/2009	1145	0-0.5	JK/GR	12500	NA	22%	XRF Split for XRF sample G-7C
G-16D	8/6/2009	1453	2-3	JK/GR	229	231	1%	Lab Split for XRF sample G-16D
G-16E	8/6/2009	1145	0-0.5	JK/GR	224	NA	2%	XRF Split for XRF sample G-16D
G-22A	8/6/2009	1532	0-0.5	JK/GR	75	67.0	11%	Lab Split for XRF sample G-22A
G-22E	8/6/2009	1145	0-0.5	JK/GR	80	NA	6%	XRF Split for XRF sample G-22A
G-34C	8/24/2009	1648	1-2	GR	34	not received	not received	Lab Split for XRF sample G-34C
G-34E	8/24/2009	1600	1-2	GR	54	NA	-39%	XRF Split for XRF sample G-34C
RB-1	8/6/2009	1145	0-3	JK/GR	NA	<0.0069	NA	Rinse Blank for XRF G-1
RB-2	8/6/2009	1350	0-2	JK/GR	NA	0.0118 J	NA	Rinse Blank for XRF G-6
RB-3	8/6/2009	1425	0-2.75	JK/GR	NA	<0.0069	NA	Rinse Blank for XRF G-12
RB-4	8/6/2009	1505	0-1	JK/GR	NA	<0.0069	NA	Rinse Blank for XRF G-18
RB-5	8/6/2009	1545	0-2	JK/GR	NA	<0.0069	NA	Rinse Blank for XRF G-24
RB-6	9/24/2009	1510	0-0.75	GR	NA	not received	NA	Rinse Blank for XRF G-29

ppm - parts per million, milligrams per kilogram (mg/kg for soil), or milligrams per liter (mg/L for liquids).
XRF - X-ray fluorescence Niton Model XL3t 500 analytical results (87 soil samples were analyzed).
Lab - Lancaster Laboratories analytical results (5 XRF splits were analyzed plus a lab split, MS, MSD and 5 RBs).
NA - not applicable MS - matrix spike MSD - matrix spike duplicate RB - rinse blank
RPD - relative percent difference. RPD for XRF-XRF RPD for XRF-Lab RPD for Lab-Lab