

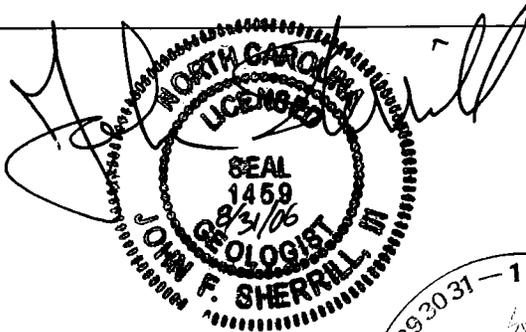
**Semi-Annual Monitoring Report
June 10, 2006
Swift Creek Project
Highway 301**

ReUse Technology, Inc.

**Nash County
Rocky Mount, North Carolina**

Prepared for:
REUSE TECHNOLOGY, INC.
Charlotte, North Carolina

August 2006



Prepared by:
Sherrill Environmental, Inc.
Durham, North Carolina



Moore & Van Allen

August 31, 2006

Mark Poindexter
Division of Waste Management
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Moore & Van Allen PLLC

Suite 4700
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Charlotte, NC 28202-4003

Re: Highway 301 Swift Creek Coal Combustion By-Product Structural Fill Site

Dear Mark:

Enclosed is a groundwater monitoring report for the Swift Creek site.

Please feel free to call me or Jack Sherrill if you have any questions about the report.

Very truly yours,

Moore & Van Allen PLLC



William A. White

cc: Robert J. Waldrop
Mark A. Casper



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1.0 INTRODUCTION

Sherrill Environmental, Inc. (Sherrill) was contracted by ReUse Technology, Inc. (ReUse) to perform Semi-Annual Groundwater and Surface Water Monitoring at the Swift Creek Project. The Swift Creek Project is a "Beneficial Use" fill utilizing coal combustion by-products (CCBs) in the development of a commercial property. The Project is located on the east side on US Highway 301 at Swift Creek near Battleboro, North Carolina (Figure 1).

On November 11, 1991, ReUse Technology, Inc. submitted a letter to the Solid Waste Management Section seeking approval to use coal ash as structural fill material in the development of 25 acres of commercial property along Highway 301 at Swift Creek. On December 3, 1991, the Solid Waste Section issued a letter to ReUse that stated "Based upon the information received, the project appears to meet the guidelines previously agreed to for such reuse. In September 1992, ReUse began placement of coal ash at the site. In January 2003, the last shipment of coal ash was accepted at the site. On March 23, 2003, the site had been graded, compacted, covered with an 18 inch soil cap and planted with grass seed. On November 4, 2004, the Closure Notice was forwarded to the Solid Waste Section. In March 2006, a Comprehensive Site Assessment (CSA) for the Swift Creek Project was submitted to the Solid Waste Section.

2.0 SITE GEOLOGY

The site surficial geology consists of an alluvial terrace constructed by the fluvial deposition silts, sands and gravels. The sequence coarsens downward with some coarse sand with gravel present near the base. The terrace deposit overlies the massive and extensive Yorktown Formation. The Yorktown Formation is Pliocene in age and was deposited in the Pliocene Yorktown sea that covered the entire coastal plain and the eastern most portions of the Piedmont. Depositional environments were back barrier lagoons, shallow inner-bay and estuarine environments and on the open shallow shelf (The Geology of the Carolinas, Horton and Zullo, 1991). The Yorktown in the region of the site is generally described as blueish-gray fine to very fine, silty sands, sandy silt or silty clay, well-sorted and very shelly.

3.0 MONITORING WELLS

A total of 10 monitoring wells are located around the perimeter of the Swift Creek Project (Figure 2). Monitoring wells MW-1S (shallow) and MW-1D (deep) are paired monitoring wells located near the center of the project approximately 25 feet east from the edge of the CCB fill. The MW-1S is completed in alluvial sediments and MW-1D is completed in the deeper marine sediments of the Yorktown Formation.

The paired monitoring wells MW-2S (shallow) and MW-2D (deep) are constructed similar to the MW-1 pair. The MW-2 pair are located on a roadway constructed into the swamp and are approximately 160 feet downgradient from the edge of the CCB fill and 135 feet downgradient of MW-1S and MW-1D.

Another paired monitoring well set, MW-5S (shallow) and MW-5D (deep), is located upgradient of the Swift Creek Project on the west side of US Highway 301. Again, the construction of this monitoring well set is similar with the shallow well screened in alluvial sandy sediments and the deeper well screened in the massive marine sediments.

Monitoring wells MW-3, MW-4, MW-6 and MW-7 are shallow wells located at the southeast, southwest, northwest and northeast corners of the project. The borings were advanced through the alluvial material until the underlying marine unit was encountered as determined by split-spoon sampling. The alluvial material varied from a silty fine sand and clayey silty fine sand in the upper portion that generally coarsened downward. Borings at MW-5S, MW-6 and MW-7 encountered medium to coarse quartz sand above the contact with the underlying marine unit.

All of the ten borings were completed using 2-inch schedule 40 PVC with 10-foot slotted screens. The monitoring wells were completed with stick-up casing and 4-inch schedule 40 PVC protective casings with lockable caps.

4.0 GROUNDWATER TABLE

Groundwater level measurements were obtained on June 9, 2006. The measurements and calculated groundwater elevations are presented in Table 1. The piezometric surface of the shallow alluvial aquifer is shown on Figure 3 and the piezometric surface of the deeper marine aquifer is shown on Figure 4. Piezometric surfaces show that the direction of groundwater flow is to the east towards the Swift Creek Swamp. The map of the groundwater table is consistent with the direction of slope of the former topographic surface.

5.0 SAMPLE COLLECTION

On June 9, 2006, the site monitoring wells were purged using a submersible pump. The pump was decontaminated between monitoring wells and disposable tubing was used for each well. On June 10, 2006, dedicated disposable polyethylene bailers were used to collect a groundwater sample from each of the ten monitoring wells. The groundwater samples were collected within 24 hours after purging. The resting period allowed for possible particulate in the water to settle prior to sampling. Samples were collected into laboratory prepared glassware, placed in an iced cooler and transferred to Enco Laboratories in Cary, North Carolina. Groundwater samples were analyzed for the Division's requested parameters of sulfate and total RCRA metals.

On June 10, 2006, Sherrill collected two surface water samples. Sample SW-1 was collected at the Highway 301 bridge over Swift Creek. Sample SW-2 was collected at a surface water gauging pole (PVC pipe) set along the roadway into the swamp (near MW-2S and MW-2D). The surface water samples were analyzed for the same parameters as the groundwater samples.

6.0 GROUNDWATER ANALYSIS

The analytical results for this and the previous groundwater sampling event are summarized on Table 2 and the laboratory report is included in the Appendix. Exceedences of the NCAC 2L Groundwater Standard were detected in the groundwater samples from the shallow downgradient monitoring well MW-1S, MW-3, MW-6 and MW-7 (Figure 5). No exceedences of the 2L Groundwater Standard were detected in the groundwater samples from the shallow upgradient monitoring wells MW-4 and MW-5S. No exceedences of the 2L Groundwater Standard were detected in the groundwater samples from the deep monitoring wells MW-1D, MW-2D and MW-5D.

Constituents that were detected in concentrations that exceeded the 2L Groundwater Standard were arsenic, lead and sulfate.

The 2L Groundwater Standard for arsenic is 0.01 mg/L. Arsenic was detected in concentrations of 0.012 mg/L and 0.030 mg/L in the samples from MW-1S and MW-7 (Figure 6).

The 2L Groundwater Standard for lead is 0.015 mg/L. Lead was detected in concentrations of 0.013 mg/L, 0.052 mg/L, and 0.053 mg/L in the samples from MW-6, MW-1S and MW-7 (Figure 7).

The 2L Groundwater Standard for sulfate is 250 mg/L. Sulfate was detected in concentrations of 740 mg/L, 580 mg/L, 510 mg/L and 500 mg/L in the samples from MW-1S, MW-3, MW-6 and MW-7 (Figure 8).

7.0 SURFACE WATER ANALYSIS

The analytical results for this and the previous surface water sampling event are summarized on Table 3 and the laboratory report is included in the Appendix. Surface water samples were collected at the Highway 301 bridge over Swift Creek (SW-1) and at a surface water gauging pole (PVC pipe) set along the roadway into the swamp (SW-2).

None of the tested parameters exceeded the NCAC 2B Surface Water Standard. These results are consistent with previous analyses. No sulfate was detected above the method required detection limit of 5 mg/L. Barium was detected in low concentrations of 0.030 mg/L and 0.090 mg/L in the samples from SW-1 and SW-2, respectively.

8.0 DISCUSSION AND SUMMARY

Arsenic, lead and sulfate were detected in concentrations that exceeded the 2L Groundwater Standard in the samples from MW-1S, MW-3, MW-6 and MW-7 which monitor shallow groundwater downgradient and adjacent to the CCB fill. Arsenic and lead were not detected in the deeper monitoring well (MW-1D) adjacent to the CCB fill. A shallow and deep monitoring well pair (MW-2S and MW-2D) is located approximately 135 feet downgradient of the MW-1 pair and 160 feet from the CCB fill. No contaminants were detected in the groundwater samples from the MW-2S and MW-2D pair. A shallow and deep monitoring well pair (MW-5S and MW-5D) is located on the west side of US Highway 301. Groundwater levels measured in MW-5S and MW-5D indicated that they were upgradient of CCB fill and analysis of the groundwater samples showed no contamination.

Sulfate was detected in the shallow groundwater downgradient and adjacent to the CCB fill in concentrations of 740 mg/L at MW-1S, 580 mg/L at MW-3, 510 mg/L at MW-6 and 500 mg/L at MW-7. Sulfate was detected in a concentration of 20 mg/L in the deeper monitoring well (MW-1D) located adjacent to the CCB fill. Sulfate was detected in the downgradient monitoring wells (approximately 160 feet from edge of CCB fill) at less than 5 mg/L at MW-2S and 11 mg/L at MW-2D. The elevated concentrations of sulfate detected in the shallow groundwater samples adjacent to the fill are likely associated with the CCB fill. The low concentrations of sulfate detected in the groundwater samples from the other monitoring wells are likely to be of natural origin and may be due to the presence of decaying organic material (shallow) or the presence of marine sediments (deep).

In summary, some shallow groundwater contamination is present adjacent and downgradient of the CCB fill. The contamination appears limited vertically as shown by no contaminants detected in the deeper monitoring well (MW-1D) adjacent and downgradient of the CCB fill. The contamination appears to be limited horizontally by no contaminants detected in the downgradient monitoring wells (MW-2S and MW-2D) located 160 feet east from the edge of the CCB fill. The contamination appears limited to the east side of Highway 301 as no contaminants were detected in the upgradient shallow and deep pair of monitoring wells MW-5S and MW-5D on the west side of Highway 301. The direction of groundwater flow in both the shallow alluvial material and the marine sediments is to the east and southeast towards Swift Creek. The shallow groundwater associated with the site is likely to discharge to the surface water of the Swift Creek/Swamp. Analysis of surface water samples has not indicated any contamination. The next monitoring event is scheduled for December 2006.

TABLES

TABLE 1
GROUNDWATER ELEVATIONS
SWIFT CREEK PROJECT

	MW-1S	MW-1D	MW-2S	MW-2D	MW-3	MW-4	MW-5S	MW-5D	MW-6	MW-7
TOC ELV.	99.54	99.90	94.87	95.22	102.15	106.06	102.68	102.67	98.41	98.63
12/1/2005	8.21	8.57	4.72	4.70	9.65	11.24	6.01	6.40	7.17	7.63
GW ELV.	91.33	91.33	90.15	90.52	92.50	94.82	96.67	96.27	91.24	91.00
1/8/2006	8.11	8.28	NM	NM	9.48	10.15	5.86	5.68	7.18	7.74
GW ELV.	91.43	91.62			92.67	95.91	96.82	96.99	91.23	90.89
6/9/2006	8.69	9.05	4.83	4.87	10.32	11.41	6.94	6.84	7.74	8.66
GW ELV.	90.85	90.85	90.04	90.35	91.83	94.65	95.74	95.83	90.67	89.97

TABLE 2
SUMMARY OF GROUNDWATER ANALYSES
SWIFT CREEK PROJECT

		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	Sulfate
NCAC	2L Std.	0.01	2.0	0.005	0.05	0.015	0.05	0.018	0.0011	250
MW-1S	6/7/04	0.028	0.19	<0.001	<0.01	0.068	<0.01	<0.01	<0.0002	490
	12/1/05	0.020	0.17	<0.001	<0.01	0.042	<0.01	<0.01	<0.0002	608
	6/10/06	0.012	0.47	<0.001	<0.01	0.052	<0.01	<0.01	0.00064	740
MW-1D	6/7/04	<0.01	0.54	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	13
	12/1/05	<0.01	0.36	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	7.7
	6/10/06	<0.01	0.34	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	20
MW-2S	6/22/04	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	32
	12/1/05	<0.01	0.18	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	10.1
	6/10/06	<0.01	0.20	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<5
MW-2D	6/22/04	<0.01	0.17	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	5.6
	12/1/05	<0.01	0.30	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	3.1
	6/10/06	<0.01	0.29	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	11
MW-5S	12/1/05	<0.01	0.45	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	6.1
	6/10/06	<0.01	0.12	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	7
MW-5D	12/1/05	<0.01	0.17	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	8.1
	6/10/06	<0.01	0.24	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	6
MW-3	12/1/05	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	334
	6/10/06	<0.01	0.19	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	580
MW-4	12/1/05	<0.01	0.46	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	5.7
	6/10/06	<0.01	0.17	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<5
MW-6	12/1/05	<0.01	1.30	<0.001	<0.01	0.01	<0.01	<0.01	<0.0002	174
	6/10/06	<0.01	0.82	<0.001	<0.01	0.013	<0.01	<0.01	<0.0002	510
MW-7	12/1/05	0.038	<0.10	<0.001	<0.01	0.093	<0.01	<0.01	<0.0002	379
	6/10/06	0.03	0.06	<0.001	<0.01	0.053	<0.01	<0.01	<0.0002	500
Concentrations in mg/L (ppm)										
Bold values exceed the 2L Groundwater Standard										
MW-1S, MW-2S and MW-5S are screened shallow (approx. 3 to 13 feet).										
MW-1D, MW-2D, and MW-5D are screened deep (approx. 23 to 33 feet).										
MW-3, MW-4, MW-6 and MW-7 are shallow wells located on the SE, SW, NW and NE corners.										

6/10/06

**TABLE 3
SUMMARY OF SURFACE WATER ANALYSES
SWIFT CREEK PROJECT**

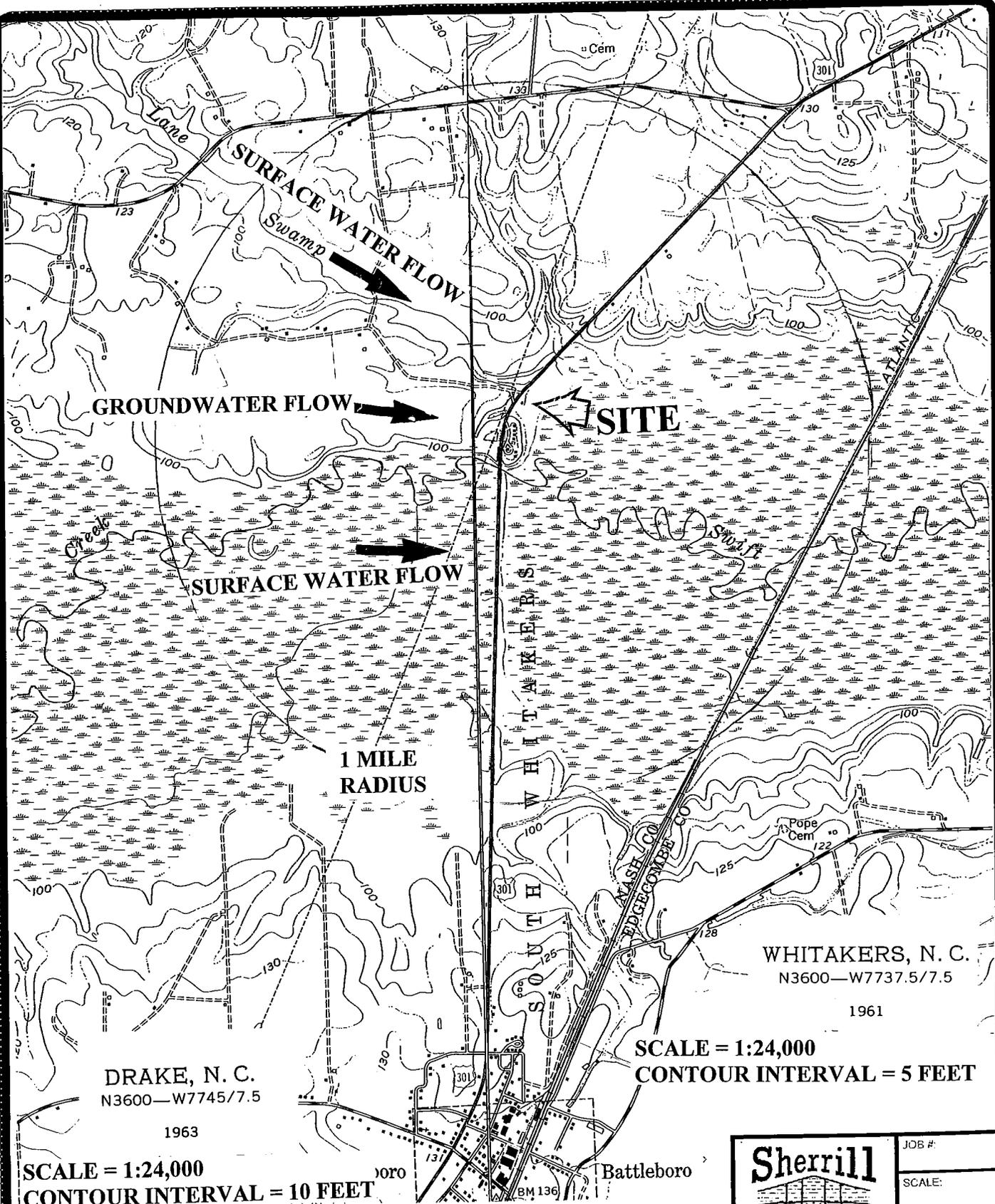
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6x10³

		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	Sulfate
NCAC	2B Std.	0.05	1.0	0.002	0.05	0.025	0.005	0.06	0.000012	250
SW-1	3/4/03	<0.01	<0.10	<0.001	<0.01	<0.005	<0.01	<0.01	<0.0002	12
	6/22/04	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<2.0
	12/1/05	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	6.3
	6/10/06	<0.01	0.030	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<5
SW-2	3/4/03	<0.01	<0.10	<0.001	<0.01	<0.005	<0.01	<0.01	<0.0002	13
	6/22/04	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<2.0
	12/1/05	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	10.2
	6/10/06	<0.01	0.090	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<5
Concentrations in mg/L (ppm)										
Bold values exceed the 2B Surface Water Standard										
SW-1 Swift Creek at bridge (background).										
SW-2 in swamp near MW-2S and MW-2D										

FIGURES

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DRAKE, N. C.
N3600—W7745/7.5
1963

SCALE = 1:24,000
CONTOUR INTERVAL = 10 FEET

WHITAKERS, N. C.
N3600—W7737.5/7.5
1961

SCALE = 1:24,000
CONTOUR INTERVAL = 5 FEET

FIGURE 1
SITE LOCATION MAP

 Sherrill Environmental, Inc. 3326 Rugby Rd. Durham N.C. 27707 Phone (919) 493-6555 Fax (919) 493-6554 sherrill@nc.rr.com	JOB #:
	SCALE:
	DATE: 12/1/05
	SHEET #: 1 OF 10

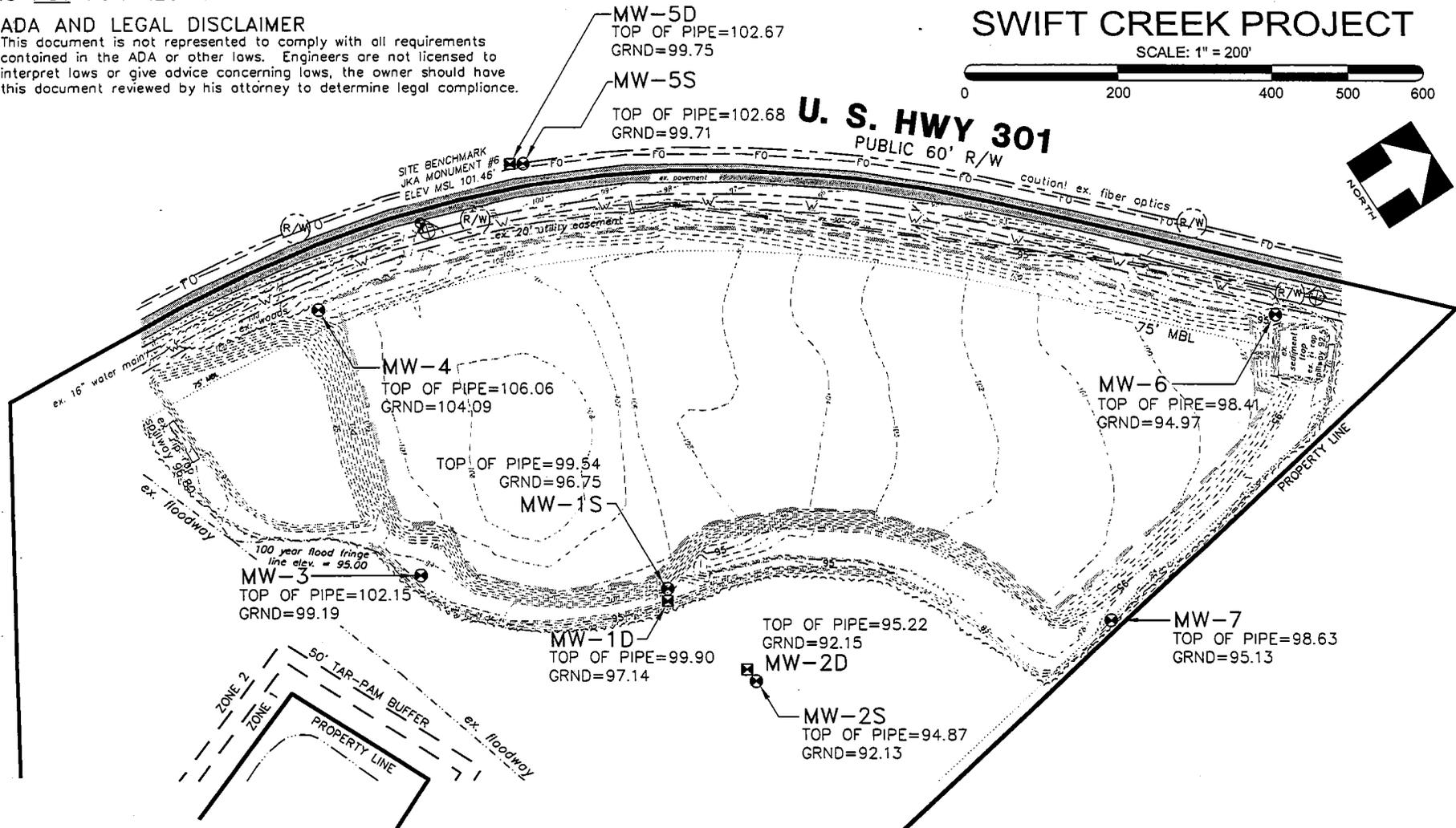
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**REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT**

SCALE: 1" = 200'



LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)

LIMITS OF ASH FILL PER PAUL ODEN WITH REUSE TECHNOLOGIES FEB. 21, 2003.

**FIGURE 2
SITE MAP
06/10/06**

Sherrill



Environmental, Inc.

3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

ACE JOB #:
01-060

SCALE:
1"=200'



Appian

APPIAN CONSULTING ENGINEERS, P.A.
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COMPREHENSIVE ENVIRONMENTAL SERVICES
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www.appianengineers.com

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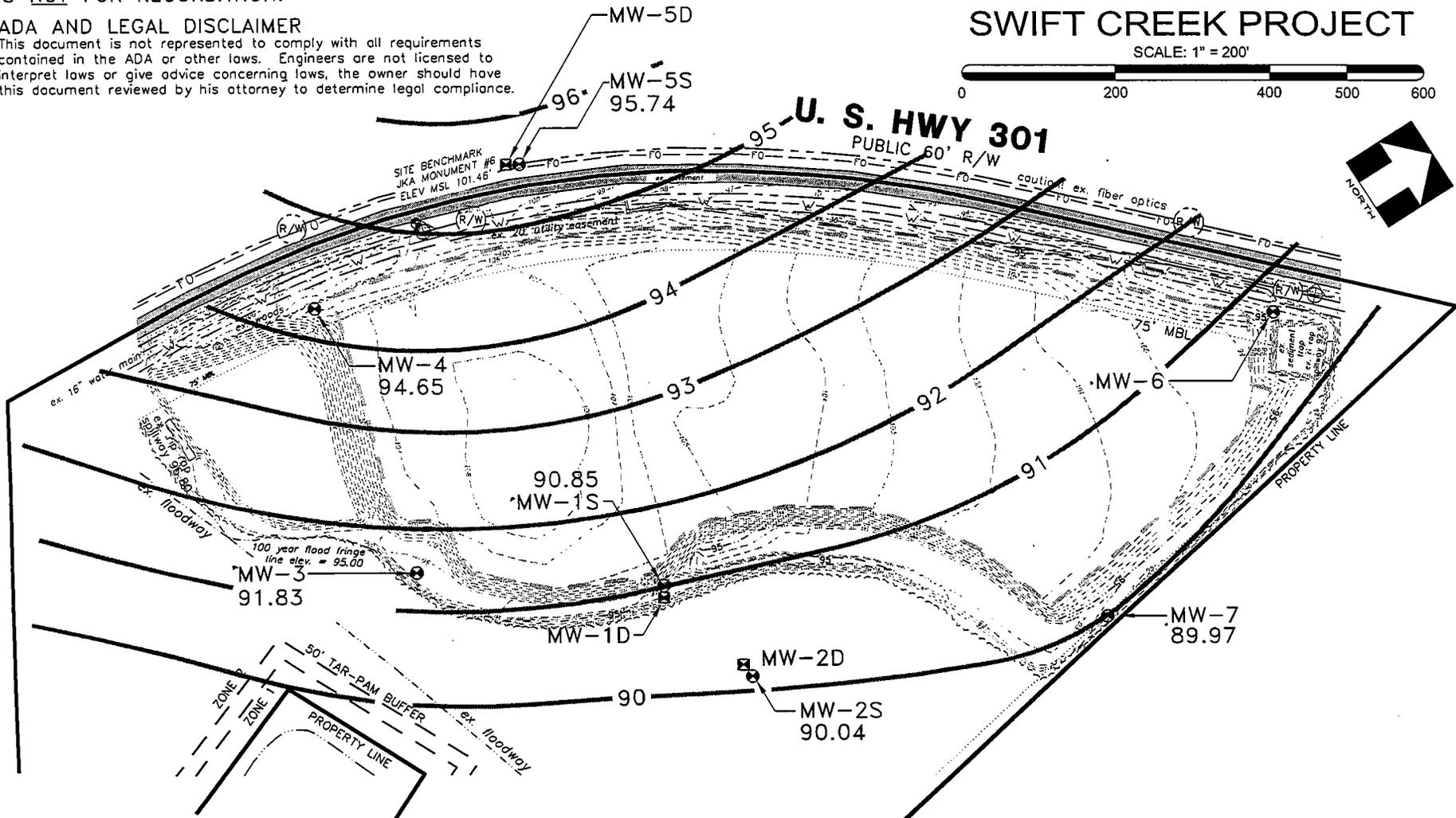
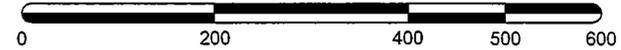
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**REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT**

SCALE: 1" = 200'



LEGEND

- TYPICAL PIEZOMETER MONITOR WELL
- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- LIMITS OF ASH FILL PER PAUL ODEN WITH REUSE TECHNOLOGIES FEB. 21, 2003.

**FIGURE 3
MAP OF SHALLOW
GROUNDWATER TABLE
(ALLUVIAL TERRACE)
06/10/06**

Sherrill
Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
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ACE JOB #: 01-060
SCALE: 1"=200'



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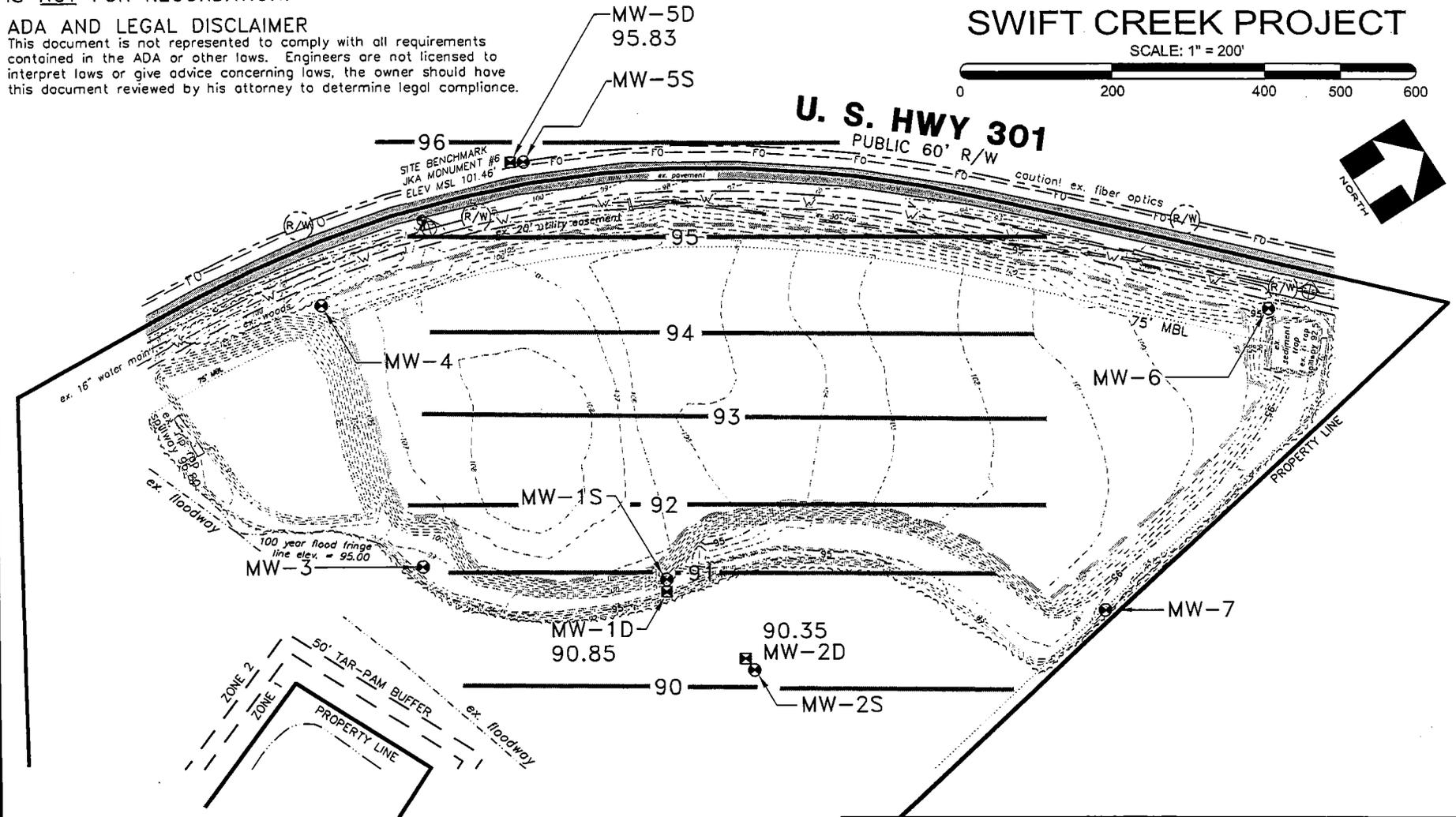
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**REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT**

SCALE: 1" = 200'



LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- LIMITS OF ASH FILL PER PAUL ODEN WITH REUSE TECHNOLOGIES FEB. 21, 2003.

**FIGURE 4
MAP OF DEEPER
GROUNDWATER TABLE
(MARINE SEDIMENTS)
06/10/06**

Sherrill
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SCALE: 1"=200'



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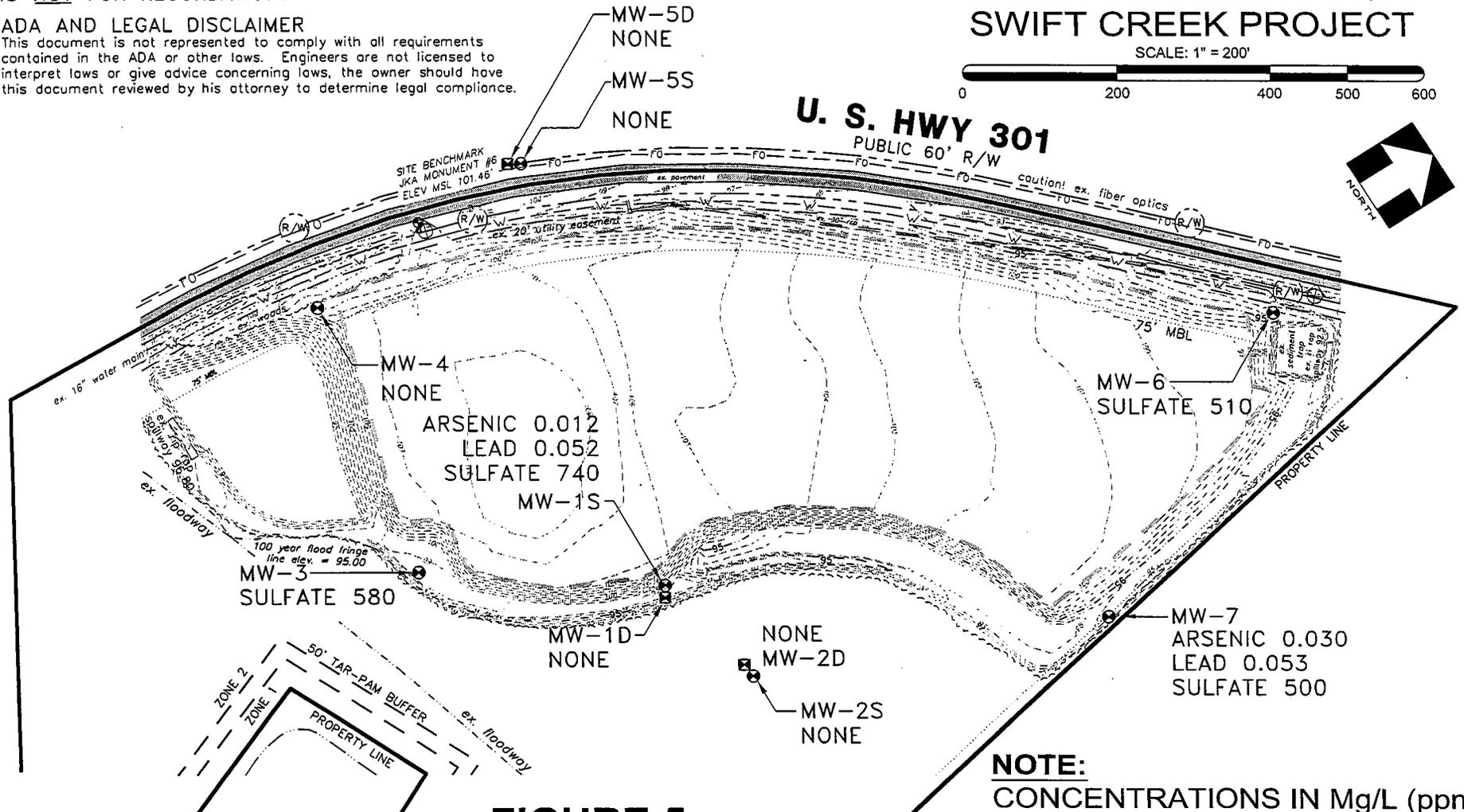
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SWIFT CREEK PROJECT**

SCALE: 1" = 200'



NOTE:
CONCENTRATIONS IN Mg/L (ppm)

LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- LIMITS OF ASH FILL PER PAUL ODEN WITH REUSE TECHNOLOGIES FEB. 21, 2003.

FIGURE 5
CONSTITUENTS EXCEEDING 2L GROUNDWATER STANDARDS
06/10/06

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Phone (919) 493-6555
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DATE: 12/1/05
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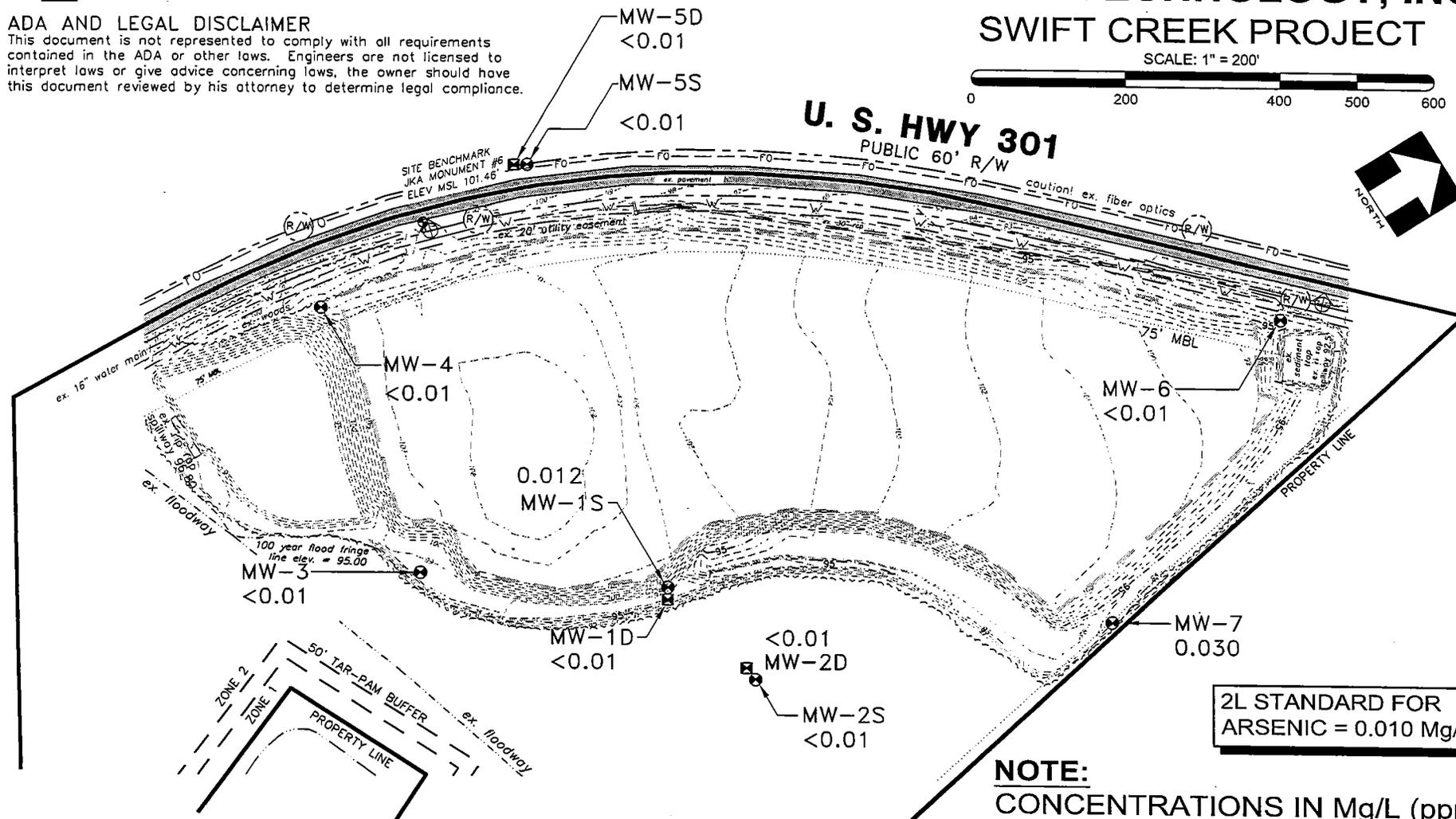
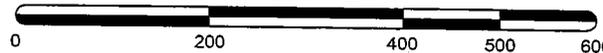
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**REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT**

SCALE: 1" = 200'



2L STANDARD FOR ARSENIC = 0.010 Mg/L

NOTE:
CONCENTRATIONS IN Mg/L (ppm)

LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- LIMITS OF ASH FILL PER PAUL ODEN WITH REUSE TECHNOLOGIES FEB. 21, 2003.

**FIGURE 6
ARSENIC
CONCENTRATIONS IN
GROUNDWATER SAMPLES
06/10/06**

Sherrill
Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

ACE JOB #: 01-060
SCALE: 1"=200'



APIAN CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
P.O. Box 7966 / Rocky Mount, N.C. 27804
Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

DATE: 12/1/05
SHEET #: 8 OF 10



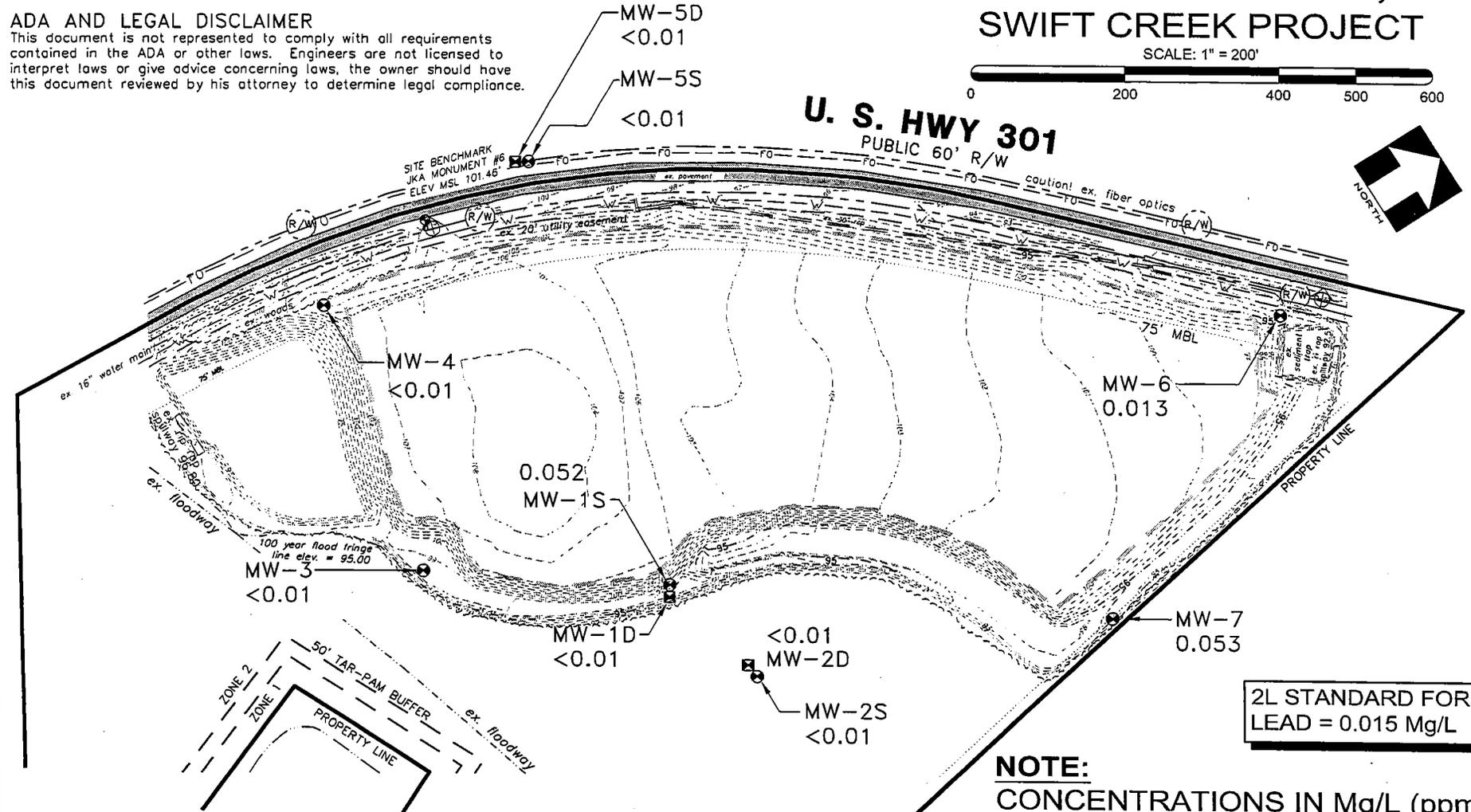
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**REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT**

SCALE: 1" = 200'



NOTE:
CONCENTRATIONS IN Mg/L (ppm)

LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- ⊠ DEEP MONITORING WELL (MARINE SEDIMENTS)
- LIMITS OF ASH FILL PER PAUL ODEN WITH REUSE TECHNOLOGIES FEB. 21, 2003.

**FIGURE 7
LEAD CONCENTRATIONS
IN GROUNDWATER
SAMPLES
06/10/06**

Sherrill



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ACE JOB #: 01-060
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CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
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DATE: 12/1/05
SHEET #: 9 OF 10



BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

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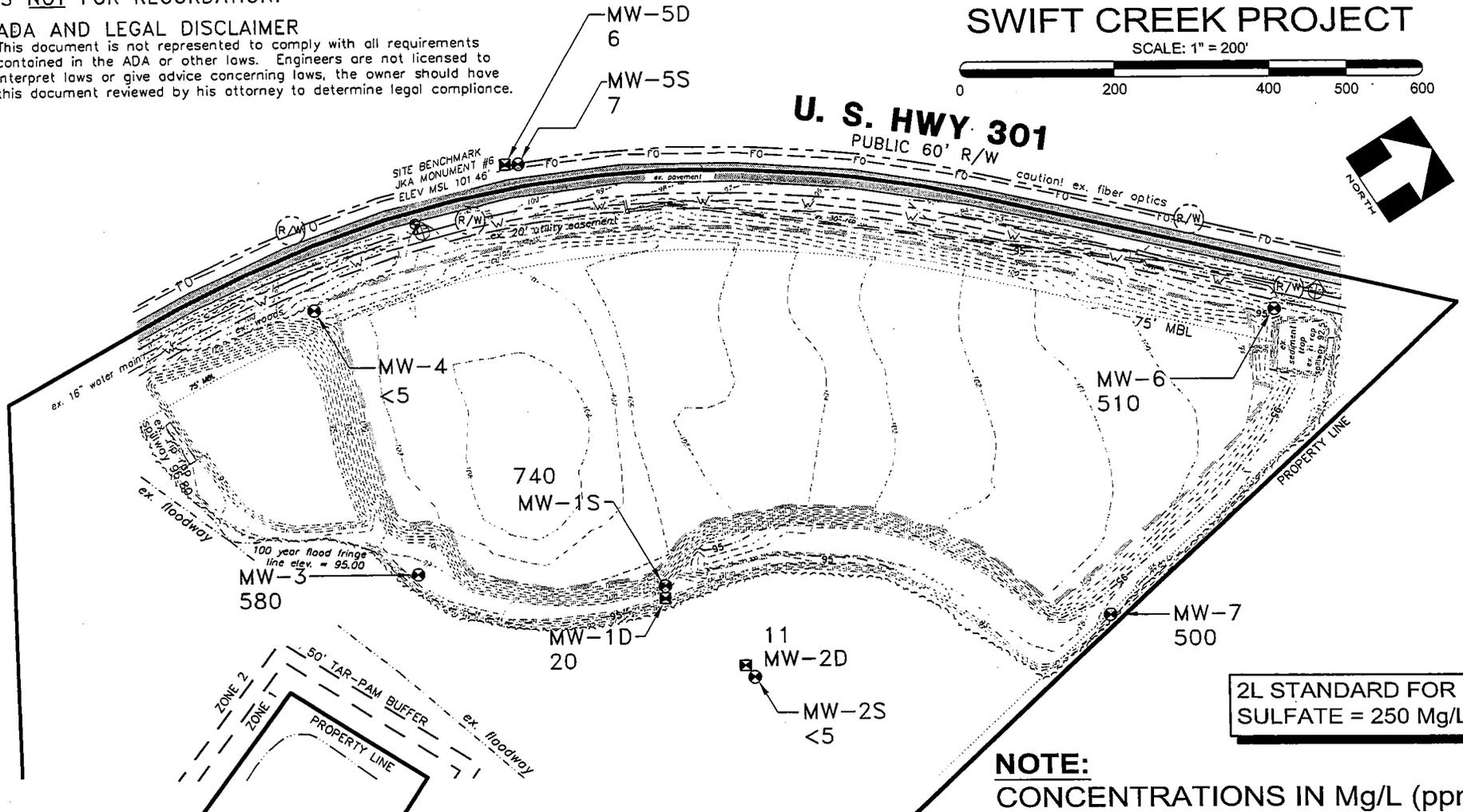
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**REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT**

SCALE: 1" = 200'



U. S. HWY 301
PUBLIC 60' R/W



2L STANDARD FOR SULFATE = 250 Mg/L

NOTE:
CONCENTRATIONS IN Mg/L (ppm)

LEGEND

- TYPICAL PIEZOMETER MONITOR WELL
- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)

LIMITS OF ASH FILL PER PAUL ODEN WITH REUSE TECHNOLOGIES FEB. 21, 2003.

**FIGURE 8
SULFATE
CONCENTRATIONS IN
GROUNDWATER SAMPLES
06/10/06**



Sherrill Environmental, Inc.
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ACE JOB #: 01-060
SCALE: 1"=200'



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Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

DATE: 12/1/05
SHEET #: 10 OF 10

APPENDIX

Laboratory Data

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515



www.encolabs.com

Tuesday, August 15, 2006

Sherrill Environmental, Inc. (SH004)

Attn: Jack Sherrill

3326 Rugby Road

Durham, NC 27707

**RE: Project Number: [none], Project Name/Desc: Swift Creek
ENCO Workorder: C601735**

Dear Jack Sherrill,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Monday, June 12, 2006.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Chuck Smith". The signature is written in a cursive, flowing style with large, connected letters.

Chuck Smith
Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1S

Lab ID: C601735-01

Sampled: 06/10/06 11:05

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 11:00
EPA 7470A	07/08/06	06/13/06 06:42	6/14/2006 14:08
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: MW-1D

Lab ID: C601735-02

Sampled: 06/10/06 11:00

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 11:30
EPA 7470A	07/08/06	06/13/06 06:42	6/14/2006 14:15
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: MW-2S

Lab ID: C601735-03

Sampled: 06/10/06 10:50

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 11:37
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 11:35
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: MW-2D

Lab ID: C601735-04

Sampled: 06/10/06 10:55

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 11:44
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 11:37
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30



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Client ID: MW-5S

Lab ID: C601735-05

Sampled: 06/10/06 10:25

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 11:51
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 11:39
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: MW-5D

Lab ID: C601735-06

Sampled: 06/10/06 10:30

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 12:12
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 11:41
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: MW-3

Lab ID: C601735-07

Sampled: 06/10/06 10:45

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 12:19
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 11:42
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: MW-4

Lab ID: C601735-08

Sampled: 06/10/06 10:40

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 12:26
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 11:45
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: MW-6

Lab ID: C601735-09

Sampled: 06/10/06 11:20

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 12:33
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 11:55
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: MW-7

Lab ID: C601735-10

Sampled: 06/10/06 11:15

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 12:40
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 11:57
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: SW-1

Lab ID: C601735-11

Sampled: 06/10/06 11:30

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 12:47
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 11:59
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

Client ID: SW-2

Lab ID: C601735-12

Sampled: 06/10/06 11:10

Received: 06/12/06 12:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/07/06	06/13/06 08:17	6/14/2006 12:54
EPA 7470A	07/08/06	06/13/06 06:42	6/13/2006 12:01
SM 4500E	07/08/06	06/16/06 11:26	6/16/2006 13:30

SAMPLE DETECTION SUMMARY

Client ID: MW-1S

Analyte

Arsenic

Barium

Lead

Mercury

Sulfate as SO4

Client ID: MW-1D

Analyte

Barium

Sulfate as SO4

Client ID: MW-2S

Analyte

Barium

Client ID: MW-2D

Analyte

Barium

Sulfate as SO4

Client ID: MW-5S

Analyte

Barium

Sulfate as SO4

Client ID: MW-5D

Analyte

Barium

Sulfate as SO4

Client ID: MW-3

Analyte

Barium

Sulfate as SO4

Client ID: MW-4

Analyte

Barium

Client ID: MW-6

Analyte

Barium

Lead

Sulfate as SO4

Client ID: MW-7

Analyte

Lab ID: C601735-01

Results/Qual

12.5

472

52.3

0.64

740 D

Lab ID: C601735-02

Results/Qual

341

20

Lab ID: C601735-03

Results/Qual

198

Lab ID: C601735-04

Results/Qual

290

11

Lab ID: C601735-05

Results/Qual

121

7

Lab ID: C601735-06

Results/Qual

236

6

Lab ID: C601735-07

Results/Qual

192

580 D

Lab ID: C601735-08

Results/Qual

171

Lab ID: C601735-09

Results/Qual

816

13.0

510 D

Lab ID: C601735-10

Results/Qual

MRL

10.0

20.0

10.0

0.20

250

MRL

20.0

5

MRL

20.0

MRL

20.0

5

MRL

20.0

5

MRL

20.0

5

MRL

20.0

100

MRL

20.0

MRL

20.0

10.0

100

MRL

Units

ug/L

ug/L

ug/L

ug/L

mg/L

Units

ug/L

mg/L

Units

ug/L

Units

ug/L

mg/L

Units

ug/L

mg/L

Units

ug/L

mg/L

Units

ug/L

mg/L

Units

ug/L

Units

ug/L

ug/L

mg/L

Units

Method

EPA 6010B

EPA 6010B

EPA 6010B

EPA 7470A

SM 4500E

Method

EPA 6010B

SM 4500E

Method

EPA 6010B

Method

EPA 6010B

SM 4500E

Method

EPA 6010B

Method

EPA 6010B

EPA 6010B

SM 4500E

Method



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ANALYTICAL REPORT

Sample ID: MW-1S
Lab #: C601735-01

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	12.5	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	472	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	52.3	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.64	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-1S
Lab #: C601735-01

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Sulfate as SO4	148-08-798	740 D	250	mg/L	SM 4500E	NO PREP	6F16008



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ANALYTICAL REPORT

Sample ID: MW-1D
Lab #: C601735-02

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	341	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-1D
Lab #: C601735-02

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Sulfate as SO4	148-08-798	20	5	mg/L	SM 4500E	NO PREP	6F16008



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ANALYTICAL REPORT

Sample ID: MW-2S
Lab #: C601735-03

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	198	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-2S
Lab #: C601735-03

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Classical Chemistry Parameters

<u>Parameter</u>	<u>CAS Number</u>	<u>Analytical Results</u>	<u>MRL</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Prep Method</u>	<u>Analytical Batch</u>
Sulfate as SO4	148-08-798	5 U	5	mg/L	SM 4500E	NO PREP	6F16008



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ANALYTICAL REPORT

Sample ID: MW-2D
Lab #: C601735-04

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	290	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-2D
Lab #: C601735-04

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Classical Chemistry Parameters

<u>Parameter</u>	<u>CAS Number</u>	<u>Analytical Results</u>	<u>MRL</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Prep Method</u>	<u>Analytical Batch</u>
Sulfate as SO4	148-08-798	11	5	mg/L	SM 4500E	NO PREP	6F16008



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ANALYTICAL REPORT

Sample ID: MW-5S
Lab #: C601735-05

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	121	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-5S
Lab #: C601735-05

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Sulfate as SO4	148-08-798	7	5	mg/L	SM 4500E	NO PREP	6F16008



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ANALYTICAL REPORT

Sample ID: MW-5D
Lab #: C601735-06

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	236	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-5D
Lab #: C601735-06

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Sulfate as SO4	148-08-798	6	5	mg/L	SM 4500E	NO PREP	6F16008



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ANALYTICAL REPORT

Sample ID: MW-3
Lab #: C601735-07

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	192	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-4
Lab #: C601735-08

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	171	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-6
Lab #: C601735-09

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	816	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	13.0	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-6
Lab #: C601735-09

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Classical Chemistry Parameters

<u>Parameter</u>	<u>CAS Number</u>	<u>Analytical Results</u>	<u>MRL</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Prep Method</u>	<u>Analytical Batch</u>
Sulfate as SO4	148-08-798	510 D	100	mg/L	SM 4500E	NO PREP	6F16008



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ANALYTICAL REPORT

Sample ID: MW-7
Lab #: C601735-10

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	30.0	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	59.0	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	53.3	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: MW-7
Lab #: C601735-10

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Sulfate as SO4	148-08-798	500 D	100	mg/L	SM 4500E	NO PREP	6F16008



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ANALYTICAL REPORT

Sample ID: SW-1
Lab #: C601735-11

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	30.3	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: SW-2
Lab #: C601735-12

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Barium	7440-39-3	90.0	20.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Cadmium	7440-43-9	1.00 U	1.00	ug/L	EPA 6010B	EPA 3005A	6F13007
Chromium	7440-47-3	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Lead	7439-92-1	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Mercury	7439-97-6	0.20 U	0.20	ug/L	EPA 7470A	EPA 7470A	6F13001
Selenium	7782-49-2	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007
Silver	7440-22-4	10.0 U	10.0	ug/L	EPA 6010B	EPA 3005A	6F13007



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ANALYTICAL REPORT

Sample ID: SW-2
Lab #: C601735-12

Project: Swift Creek
Work Order #: C601735
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Sulfate as SO4	148-08-798	5 U	5	mg/L	SM 4500E	NO PREP	6F16008



QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 6F13001 - EPA 7470A

Blank (6F13001-BLK1)

Prepared: 06/13/2006 06:42 Analyzed: 06/14/2006 14:03

Mercury 0.20 U 0.20 ug/L

LCS (6F13001-BS1)

Prepared: 06/13/2006 06:42 Analyzed: 06/14/2006 14:06

Mercury 5.37 0.20 ug/L 5.26 102 81-126 200

Matrix Spike (6F13001-MS1)

Source: C601735-01

Prepared: 06/13/2006 06:42 Analyzed: 06/14/2006 14:10

Mercury 4.09 QM-01 0.20 ug/L 5.26 0.640 66 85-115 12 QM-01

Matrix Spike Dup (6F13001-MSD1)

Source: C601735-01

Prepared: 06/13/2006 06:42 Analyzed: 06/14/2006 14:12

Mercury 4.29 QM-01 0.20 ug/L 5.26 0.640 69 85-115 5 12 QM-01

Batch 6F13007 - EPA 3005A

Blank (6F13007-BLK1)

Prepared: 06/13/2006 08:17 Analyzed: 06/14/2006 10:36

Arsenic 10.0 U 10.0 ug/L

Barium 20.0 U 20.0 ug/L

Cadmium 1.00 U 1.00 ug/L

Chromium 10.0 U 10.0 ug/L

Lead 10.0 U 10.0 ug/L

Selenium 10.0 U 10.0 ug/L

Silver 10.0 U 10.0 ug/L

LCS (6F13007-BS1)

Prepared: 06/13/2006 08:17 Analyzed: 06/14/2006 10:53

Arsenic 856 10.0 ug/L 1000 86 82-117 200

Barium 877 20.0 ug/L 1000 88 72-125 200

Cadmium 435 1.00 ug/L 500 87 72-120 200

Chromium 866 10.0 ug/L 1000 87 78-119 200

Lead 833 10.0 ug/L 1000 83 72-121 200

Selenium 852 10.0 ug/L 1000 85 82-127 200

Silver 89.2 10.0 ug/L 100 89 80-128 200

Matrix Spike (6F13007-MS1)

Source: C601735-01

Prepared: 06/13/2006 08:17 Analyzed: 06/14/2006 11:07

Arsenic 475 QM-07 10.0 ug/L 1000 12.5 46 64-126 12 QM-07

Barium 929 QM-07 20.0 ug/L 1000 472 46 74-119 11 QM-07

Cadmium 200 QM-07 1.00 ug/L 500 1.00 U 40 68-121 12 QM-07

Chromium 349 QM-07 10.0 ug/L 1000 10.0 U 35 73-120 10 QM-07

Lead 485 QM-07 10.0 ug/L 1000 52.3 43 68-126 19 QM-07

Selenium 443 QM-07 10.0 ug/L 1000 10.0 U 44 65-129 10 QM-07

Silver 33.8 QM-07 10.0 ug/L 100 10.0 U 34 69-121 12 QM-07

Matrix Spike Dup (6F13007-MSD1)

Source: C601735-01

Prepared: 06/13/2006 08:17 Analyzed: 06/14/2006 11:14

Arsenic 483 QM-07 10.0 ug/L 1000 12.5 47 64-126 2 12 QM-07

Barium 938 QM-07 20.0 ug/L 1000 472 47 74-119 1 11 QM-07

Cadmium 204 QM-07 1.00 ug/L 500 1.00 U 41 68-121 2 12 QM-07

Chromium 357 QM-07 10.0 ug/L 1000 10.0 U 36 73-120 2 10 QM-07

Lead 486 QM-07 10.0 ug/L 1000 52.3 43 68-126 0.2 19 QM-07

Selenium 452 QM-07 10.0 ug/L 1000 10.0 U 45 65-129 2 10 QM-07

Silver 34.7 QM-07 10.0 ug/L 100 10.0 U 35 69-121 3 12 QM-07

Classical Chemistry Parameters - Quality Control

Batch 6F16008 - NO PREP



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Classical Chemistry Parameters - Quality Control

Batch 6F16008 - NO PREP

Blank (6F16008-BLK1)

Prepared: 06/16/2006 11:26 Analyzed: 06/16/2006 13:30

Sulfate as SO4 5 U 5 mg/L

LCS (6F16008-BS1)

Prepared: 06/16/2006 11:26 Analyzed: 06/16/2006 13:30

Sulfate as SO4 14.8 5 mg/L 14.4 103 85-115 20

Matrix Spike (6F16008-MS1)

Source: C601735-08

Prepared: 06/16/2006 11:26 Analyzed: 06/16/2006 13:30

Sulfate as SO4 14.8 5 mg/L 14.4 5 U 103 85-115 20

Matrix Spike Dup (6F16008-MSD1)

Source: C601735-08

Prepared: 06/16/2006 11:26 Analyzed: 06/16/2006 13:30

Sulfate as SO4 15.7 5 mg/L 14.4 5 U 109 85-115 6 20



NOTES AND DEFINITIONS

- U Analyte included in the analysis, but not detected
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- D Data reported from a dilution

Swift Creek

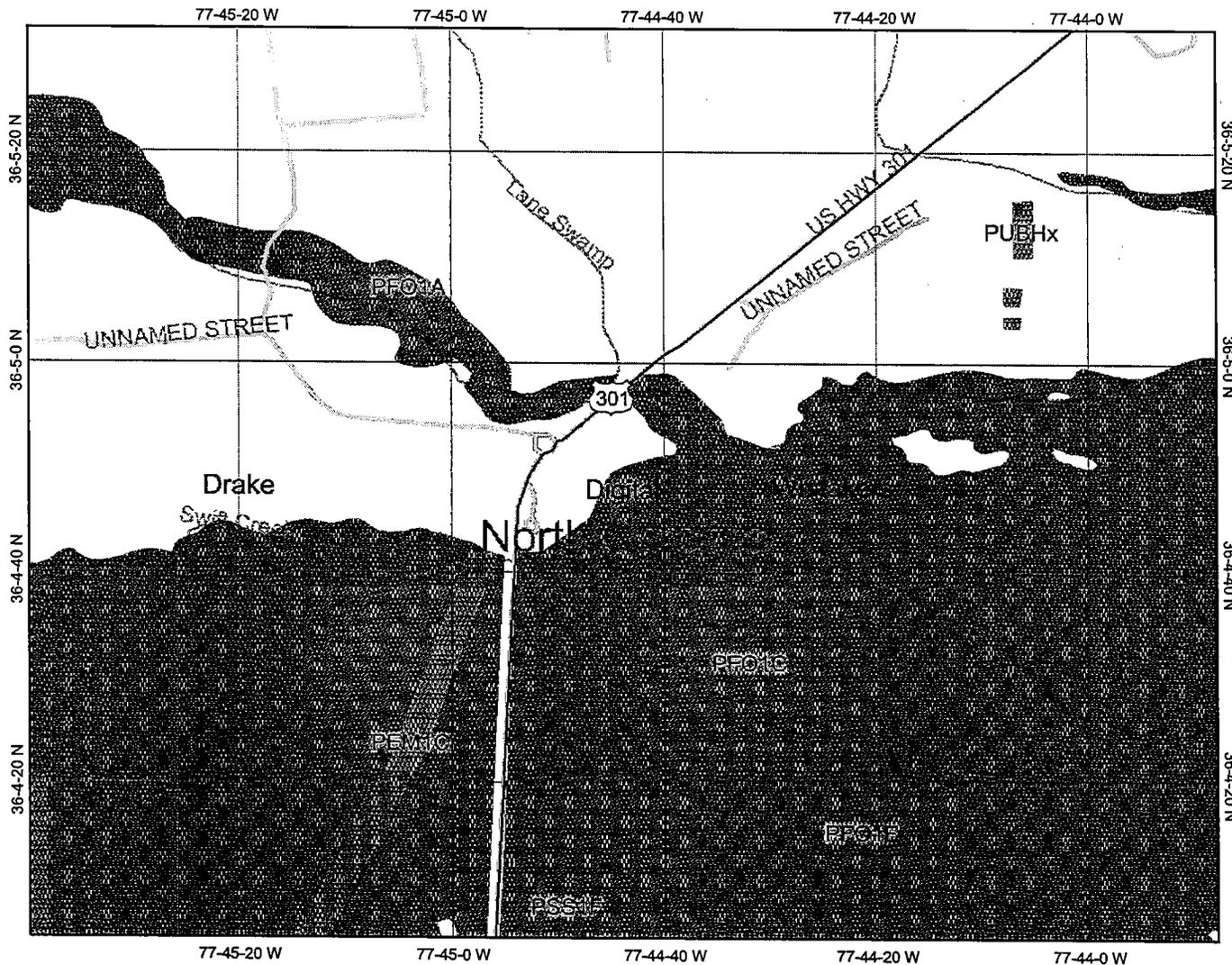


Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- Urban Areas 300K
- States 100K
- South America
- North America



Scale: 1:24,873



Map center: 36° 4' 48" N, 77° 44' 44" W

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