URS

April 18, 2003

Ms. Jill E. Pafford, Chief
North Carolina Department of Environment and Natural Resources
Hazardous Waste Section
401 Oberlin Road, Suite 150
Raleigh, NC 27605

APR 2003
Received
Hazardous Waste
Section

Re: March 2003 Semi-Annual Groundwater Sampling Report
Ashland Distribution Company
Raleigh, North Carolina
EPA ID No. 088 560 032

Dear Ms. Pafford:

URS Diamond (URSD) is pleased to present this semi-annual groundwater sampling report for the Ashland Distribution Company (Ashland) facility in Raleigh, North Carolina. The sampling activities and this report were prepared in accordance with recommendations in the Comprehensive Groundwater Monitoring Evaluation Report submitted to Ashland by the North Carolina Department of Environment and Natural Resources (DENR) on May 11, 1994. Activities conducted during this monitoring event included water level measurements, monitoring well purging and sampling, and preparation of this report. The location of the facility and related monitoring wells are presented on **Figure 1**.

On March 25, 2002, URSD gauged depth to water and total depth of all wells using a Heron® oil/water interface probe, before purging and sampling selected wells as indicated in the Groundwater Sampling and Analysis Plan dated August 1994. Groundwater and well depth measurements as well as groundwater elevation calculations are summarized in **Table 1**. A potentiometric surface map is presented on **Figure 2** indicating groundwater surface contours developed from March 2003 data. Groundwater contours indicate a general flow direction toward the south-southeast, which correlates with results of previous monitoring reports for this site. The average hydraulic gradient between MW-4 and MW-15OB is estimated to be 0.011 feet per foot.

Once depth to groundwater was measured in all wells, URSD commenced purging and sampling activities. To ensure representative groundwater samples, at least three total well volumes were purged from each monitoring well. Monitoring wells MW-01, MW-02, MW-03, MW-04, MW-05, MW-07, MW-08, MW-08D, and MW-12D were purged and sampled using disposable polyethylene bailers. Monitoring wells MW-02D, MW-3D, MW-7D, MW-11D, and, MW-13D were purged using a Whale® Super Purger self-venting submersible pump attached to disposable 3/8" inside diameter white polyethylene tubing and sampled using disposable polyethylene bailers. Field parameters including temperature, pH, and electrical conductivity were monitored during purging to identify stabilization of groundwater conditions.

URS Corporation
5900 Windward Parkway, Suite 400
Alpharetta, GA 30005
Tel: 678.356.8300
Fax: 678.356.0055

Once a well was completely purged and field parameters were stable, the well was sampled using either the same disposable polyethylene bailer used for purging or a new disposable polyethylene bailer. The sample was then transferred to laboratory pre-cleaned vials, and labels were affixed as to the job designation, monitoring well number, sample number, collection date and time, and required laboratory analysis. Each sample vial was then placed within a cooler filled with wet ice for preservation. Between each sampling point, the water level meter, and any other field appurtenances were cleaned with a deionized water and liquinox solution, then rinsed with deionized water to ensure complete decontamination. New, disposable polyethylene bailers were used at each well location.

Samples from the fourteen selected monitoring wells were packed on wet ice and shipped by overnight courier to Severn Trent Services (STL Savannah Laboratories), a state-accredited laboratory, for analysis. Each sample was analyzed for volatiles by EPA Method 8260 utilizing GC/MS. Additionally, a duplicate of monitoring well MW-1 (laboratory nomenclature DUP-1), an equipment blank (laboratory nomenclature Equ-Blk), and a field blank (laboratory nomenclature Field Blank) were collected and analyzed as quality assurance controls in accordance with URSD's SOP.

Groundwater purged from the wells was containerized in U.S. Department of Transportation; type 17H 55-gallon drums, and were labeled, sealed, and stored on site at a secure location pending analytical results and proper treatment or disposal.

A summary of analytical data from samples obtained during this monitoring event is provided in **Table 2**. The complete laboratory data report including a copy of the chain-of-custody form and laboratory case narratives are provided as **Appendix A**.

Should you have any questions or require additional information, please contact Ted Horton of Ashland Inc., at (614) 790-1246 or Scott Buwalda of URSD at (678) 356-8247.

Sincerely,

Scott E. Buwalda, P.G.
Senior Geologist

cc: Ted Horton, Ashland Inc.
Will Stott, Ashland Distribution Company, Raleigh
file

Enclosure

Table 1
Groundwater Elevations-March 25, 2002
Semi-Annual Groundwater Monitoring Report-Spring 2003
Ashland Distribution Company
Raleigh, North Carolina

Well	Screened Zone (a)	Well Depth (b)	TOC Elevation (c)	Depth to Groundwater (ft)	Groundwater Elevation (c)
MW-1	OB	30.4	260.56	22.19	238.37
MW-2	OB	30.4	256.98	20.69	236.29
MW-2D	TZ	75.5	257.50	21.10	236.40
MW-3	OB	35.4	260.44	24.71	235.73
MW-3D	TZ	72.3	260.92	27.02	233.90
MW-4	OB	30.4	256.25	14.28	241.97
MW-5	OB	30.2	257.41	19.43	237.98
MW-7	OB	30.4	259.95	21.86	238.09
MW-7D	TZ	69.7	260.09	22.00	238.09
MW-8	OB	27.7	251.55	20.37	231.18
MW-8D	TZ	59.3	251.38	19.60	231.78
MW-9D	OB	66.0	251.65	NM	NM
MW-11D	TZ	54.7	249.38	18.71	230.67
MW-12D	OB	34.6	244.45	14.23	230.22
MW-12TZ	TZ	60.0	245.96	NM	NM
MW-12BR	BR	170.0	245.86	NM	NM
MW-13D	TZ	75.1	260.22	22.70	237.52
MW-14OB	OB	21.0	225.71	5.21	220.50
MW-14TZ	TZ	35.0	226.80	5.29	221.51
MW-15OB	OB	25.0	225.38	6.35	219.03
MW-15TZ	TZ	47.0	225.43	6.31	219.12
MW-16OB	OB	21.0	237.85	13.14	224.71
MW-16TZ	TZ	47.0	237.44	12.72	224.72
MW-16BR	BR	85.0	243.52	19.12	224.40
MW-17OB	OB	16.0	224.30	1.75	222.55
MW-17TZ	TZ	50.0	225.65	2.87	222.78
MW-18TZ	TZ	35.0	229.98	7.11	222.87
MW-18BR	BR	85.0	239.40	15.15	224.25
MW-19	OB	17.0	232.89	9.70	223.19
MW-20	OB	20.0	223.85	3.30	220.55

NM - Not Measured
a/ OB- Overburden
TZ - Transition Zone
BR - Bedrock
b/ Measured in feet from ground surface to top of casing.
c/ Elevation in feet above the North American Datum of 1983.

Table 2
Semi-Annual Groundwater Monitoring Report-Spring 2003
Analytical Results Summary
Ashland Distribution Company
Raleigh, North Carolina (a)

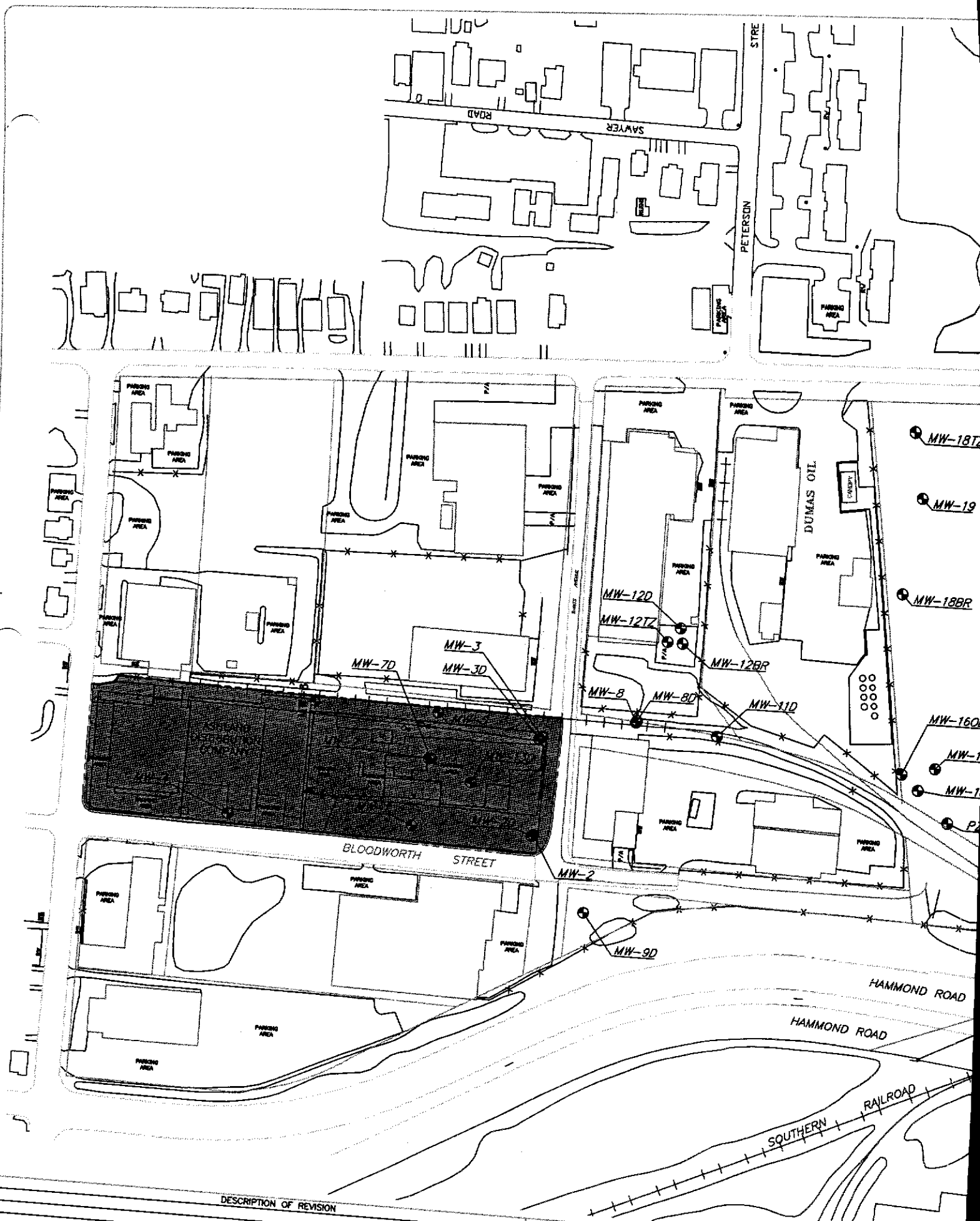
Location:	MW-01	MW-02	MW-02D		MW-03	MW-03D	MW-04	MW-05	MW-07	MW-07D		MW-08
Collect Date:	3/25/2003	3/25/2003	3/25/2003		3/25/2003	3/25/2003	3/25/2003	3/26/2003	3/25/2003	3/25/2003		3/26/2003
Volatile Organic Compounds (µg/l)												
Tetrachloroethene	**1200**	**100**	**340**	D	**2600**	**3200**	<1.0	**16000**	**15**	**8700**	D	**850**
Trichloroethene	**44**	**3**	**26**		**600**	**1800**	<1.0	**860**	<1.0	**1500**	D	**430**
1,1,1-Trichloroethane	**160**	**3.7**	<1.0		**42**	**44**	<1.0	<200	<1.0	**780**	D	**14**
1,1,2-Trichloroethane	<10	<1.0	<1.0		<25	<25	<1.0	<200	<1.0	<20		<10
cis-1,2-Dichloroethene	**56**	**2.4**	**1.6**		**140**	**330**	<1.0	<200	<1.0	**2200**	D	**1100**
trans-1,2-Dichloroethene	<10	<1.0	<1.0		<25	<25	<1.0	<200	<1.0	<20		<10
1,1-Dichloroethane	<10	<1.0	<1.0		<25	**30**	<1.0	<200	<1.0	**69**	D	**23**
1,1-Dichloroethene	**55**	**2.5**	**4.4**		**56**	**410**	<1.0	**230**	<1.0	**260**	D	**130**
1,2-Dichloroethane	<10	<1.0	<1.0		<25	<25	<1.0	<200	<1.0	<20		<10
Carbon disulfide	<10	<1.0	<1.0		<25	<25	<1.0	<200	<1.0	<20		<10
Carbon tetrachloride	<10	<1.0	**9.6**		**35**	<25	<1.0	<200	<1.0	<20		<10
Chloroform	<10	<1.0	**3.8**		<25	<25	**18**	<200	<1.0	<20		**19**
Chloromethane	<10	<1.0	<1.0		<25	<25	<1.0	<200	<1.0	<20		<10
Methylene chloride (Dichloromethane)	<50	<5.0	<5.0		<120	<120	<5.0	<1000	<5.0	**540**	D	<50
Vinyl chloride	<10	<1.0	<1.0		<25	<25	<1.0	<200	<1.0	**23**		<10
Benzene	<10	<1.0	<1.0		<25	<25	<1.0	<200	<1.0	<20		<10
Toluene	<10	<1.0	<1.0		<25	<25	<1.0	<200	<1.0	**52**		<10
Ethylbenzene	<10	<1.0	<1.0		<25	<25	<1.0	<200	<1.0	**32**		<10
Xylenes	<20	<2.0	<2.0		<50	<50	<2.0	<400	<2.0	**100**		<20
Total VOCs	**1,515**	**112**	**385**		**3,473**	**5,814**	**18**	**17,090**	**15**	**14,256**		**2,566**

a/ Less than value indicates that the constituent was not detected at the detection limit indicated.
b/ DUP-1 is a duplicate of MW-1
D-Flag used by the lab if a sample is reanalyzed at a higher dilution factor.
BDL-below detection limit

Table 2
Semi-Annual Groundwater Monitoring Report-Spring 2003
Analytical Results Summary
Ashland Distribution Company
Raleigh, North Carolina (a)

Location:	MW-08D		MW-11D	MW-12D	MW-13D	DUP 1	Trip Blank	EQU BLK
Collect Date:	3/26/2003		3/26/2003	3/26/2003	3/25/2003	3/25/2003	3/26/2003	3/26/2003
Volatile Organic Compounds (µg/l)								
Tetrachloroethene	42000	D	6100	13000	20	1300	<1.0	<1.0
Trichloroethene	17000	D	87	5900	18	43	<1.0	<1.0
1,1,1-Trichloroethane	360	D	<50	160	<1.0	160	<1.0	<1.0
1,1,2-Trichloroethane	23		<50	<100	<1.0	<10	<1.0	<1.0
cis-1,2-Dichloroethene	270	D	<50	<100	<1.0	53	<1.0	<1.0
trans-1,2-Dichloroethene	<10		<50	<100	<1.0	<10	<1.0	<1.0
1,1-Dichloroethane	29		<50	<100	<1.0	<10	<1.0	<1.0
1,1-Dichloroethene	2200	D	<50	760	6.8	46	<1.0	<1.0
1,2-Dichloroethane	12		<50	<100	<1.0	<10	<1.0	<1.0
Carbon disulfide	<10		<50	<100	<1.0	<10	<1.0	<1.0
Carbon tetrachloride	390	D	<50	360	8.1	<10	<1.0	<1.0
Chloroform	29		<50	<100	<1.0	<10	<1.0	1.2
Chloromethane	<10		<50	<100	<1.0	<10	<1.0	<1.0
Methylene chloride (Dichloromethane)	290		<250	<500	<5.0	<50	<5.0	<5.0
Vinyl chloride	<10		<50	<100	<1.0	<10	<1.0	<1.0
Benzene	<10		<50	<100	<1.0	<10	<1.0	<1.0
Toluene	<10		<50	<100	<1.0	<10	<1.0	<1.0
Ethylbenzene	<10		<50	<100	<1.0	<10	<1.0	<1.0
Xylenes	<20		<100	<200	<2.0	<20	<2.0	<2.0
Total VOCs	62,603		6,187	20,180	53	1,602	ND	1.2

a/ Less than value indicates that the constituent was not detected at the detection limit indicated.
b/ DUP-1 is a duplicate of MW-1
D-Flag used by the lab if a sample is rean
BDL-below detection limit



REV	DESCRIPTION OF REVISION	BY	DATE

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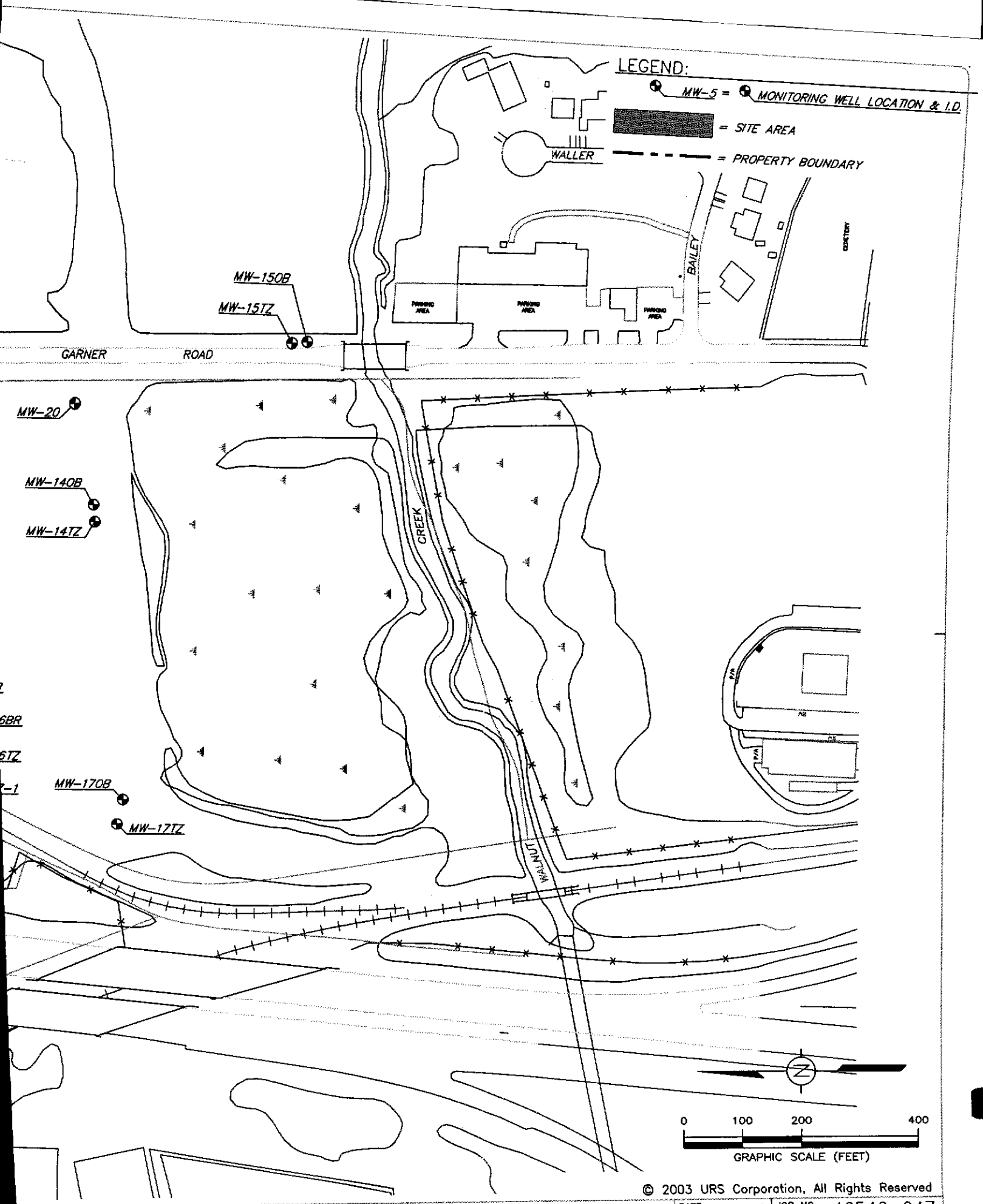

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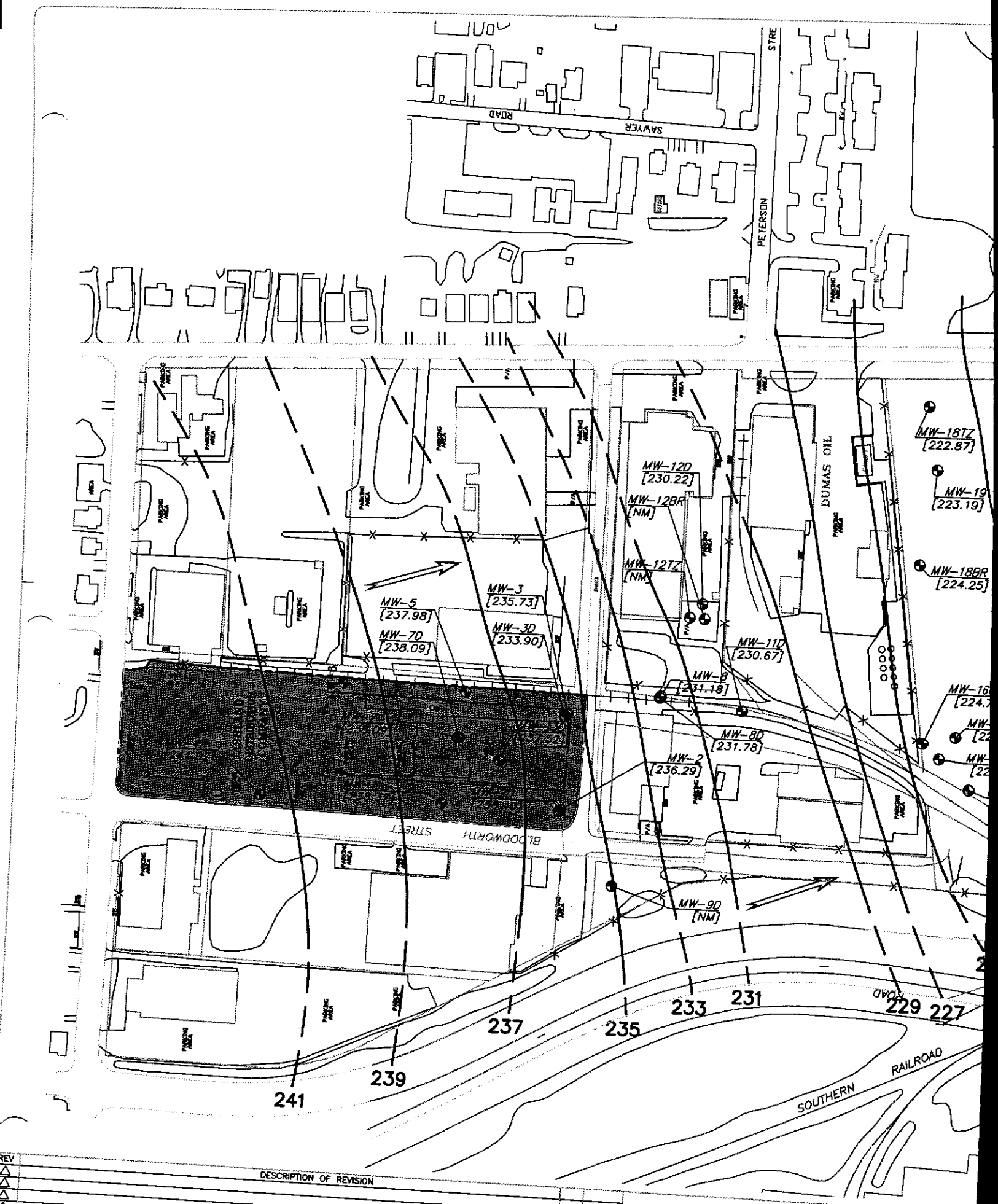
TITLE	DATE 10-14-02	JOB NO. 46546-047
MONITORING WELL LOCATION MAP	DR. WC	SKETCH NO. FIGURE 1



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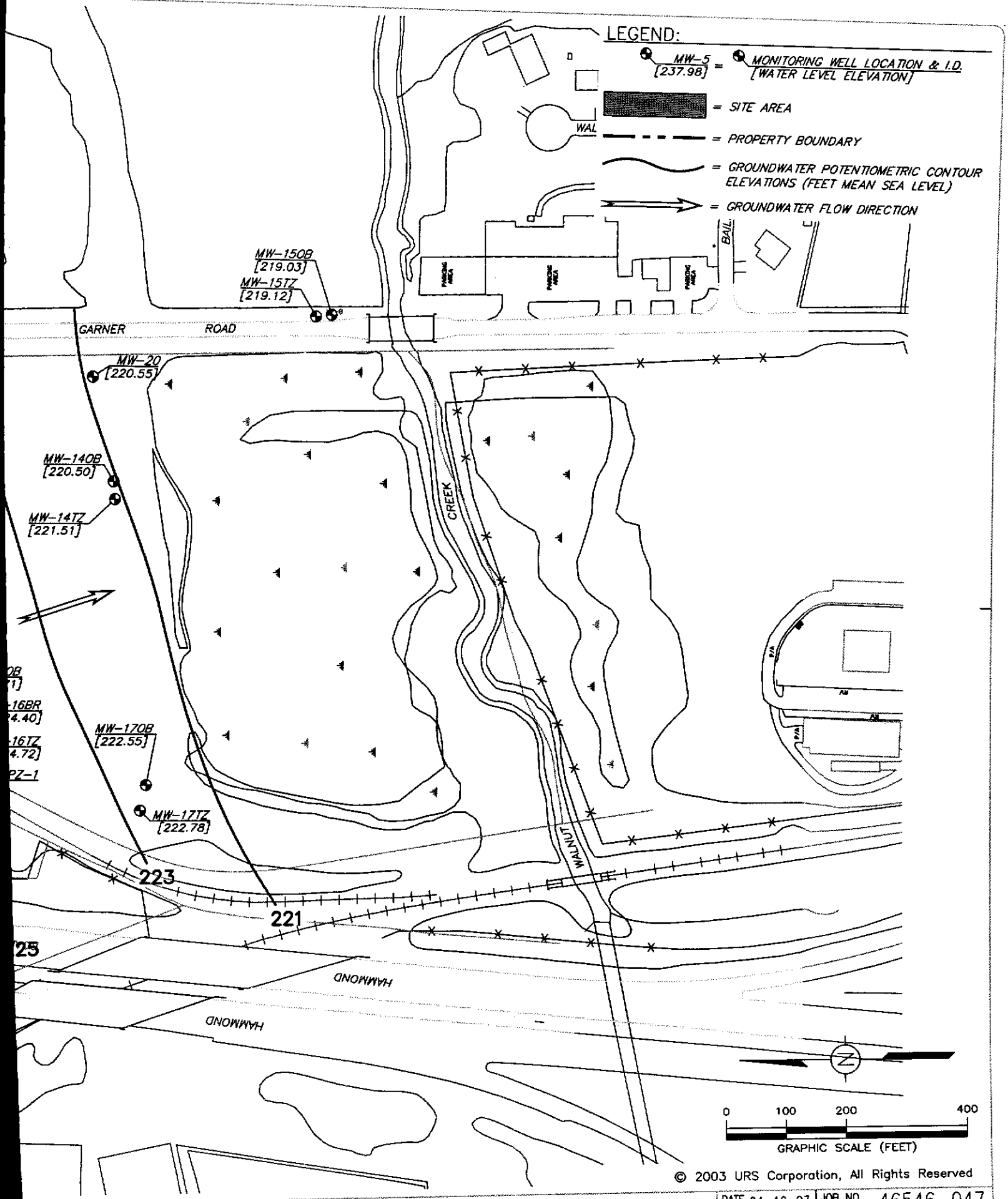

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TITLE
POTENTIOMETRIC SURFACE MAP (OVERBURDEN) – MARCH 25, 2003

DATE 04-16-03	JOB NO. 46546-047
DR. WC	SKETCH NO. FIGURE 2
CK. SEB	

URS CORPORATION, ALPHARETTA, GA., 678-356-8300

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LOG NO: S3-82136
Received: 27 MAR 03
Reported: 04 APR 03

Mr. Scott Buwalda
URS Corporation
5900 Windward Parkway, Suite 400
Alpharetta, GA 30005

Cl Project No: 46546-047

Project: Ashland-Raleigh
Sampled By: Client
Code: 11043047

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-1	MW-4	03-25-03/09:10
82136-2	MW-1	03-25-03/09:40
82136-3	MW-2	03-25-03/14:00
82136-4	MW-2D	03-25-03/14:30
82136-4-DL	MW-2D	03-25-03/14:30

PARAMETER	82136-1	82136-2	82136-3	82136-4	82136-4-DL
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Bromomethane (Methyl bromide), ug/l	<1.0	<10	<1.0	<1.0	<2.0
Vinyl chloride, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Chloroethane, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Methylene chloride (Dichloromethane), ug/l	<5.0	<50	<5.0	<5.0	<10
Acetone, ug/l	<25	<250	<25	<25	<50
Carbon disulfide, ug/l	<1.0	<10	<1.0	<1.0	<2.0
1,1-Dichloroethene, ug/l	<1.0	55	2.5	4.4	4.4D
1,1-Dichloroethane, ug/l	<1.0	<10	<1.0	<1.0	<2.0
cis-1,2-Dichloroethene, ug/l	<1.0	56	2.4	1.6	<2.0
trans-1,2-Dichloroethene, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Chloroform, ug/l	18	<10	<1.0	3.8	3.7D
1,2-Dichloroethane, ug/l	<1.0	<10	<1.0	<1.0	<2.0
2-Butanone (MEK), ug/l	<10	<100	<10	<10	<20
1,1,1-Trichloroethane, ug/l	<1.0	160	3.7	<1.0	<2.0
Carbon tetrachloride, ug/l	<1.0	<10	<1.0	9.6	8.6D

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82136-4	MW-2D	03-25-03/14:30
82136-4-DL	MW-2D	03-25-03/14:30

PARAMETER	82136-1	82136-2	82136-3	82136-4	82136-4-DL
Bromodichloromethane, ug/l	<1.0	<10	<1.0	<1.0	<2.0
1,1,2,2-Tetrachloroethane, ug/l	<1.0	<10	<1.0	<1.0	<2.0
1,2-Dichloropropane, ug/l	<1.0	<10	<1.0	<1.0	<2.0
trans-1,3-Dichloropropene, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Trichloroethene, ug/l	<1.0	44	3.0	26	27D
Dibromochloromethane, ug/l	<1.0	<10	<1.0	<1.0	<2.0
1,1,2-Trichloroethane, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Benzene, ug/l	<1.0	<10	<1.0	<1.0	<2.0
cis-1,3-Dichloropropene, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Bromoform, ug/l	<1.0	<10	<1.0	<1.0	<2.0
2-Hexanone, ug/l	<10	<100	<10	<10	<20
4-Methyl-2-pentanone (MIBK), ug/l	<10	<100	<10	<10	<20
Tetrachloroethene, ug/l	<1.0	1200	100	280E	340D
Toluene, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Chlorobenzene, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Ethylbenzene, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Styrene, ug/l	<1.0	<10	<1.0	<1.0	<2.0
Xylenes, Total, ug/l	<2.0	<20	<2.0	<2.0	<4.0
Surrogate - Toluene-d8	88 %	86 %	88 %	88 %	76 %

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82136-3	MW-2	03-25-03/14:00
82136-4	MW-2D	03-25-03/14:30
82136-4-DL	MW-2D	03-25-03/14:30

PARAMETER	82136-1	82136-2	82136-3	82136-4	82136-4-DL
Surrogate - 4-Bromofluorobenzene	82 %	76 %	90 %	88 %	76 %
Surrogate - Dibromofluoromethane	102 %	100 %	100 %	100 %	100 %
Dilution Factor	1	10	1	1	2
Prep Date	03.31.03	03.31.03	03.31.03	03.31.03	03.31.03
Analysis Date	03.31.03	03.31.03	03.31.03	03.31.03	03.31.03
Batch ID	1P0331	1P0331	1P0331	1P0331	1P0331

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82136-5	MW-3	03-25-03/15:05
82136-6	MW-3D	03-25-03/15:10
82136-7	MW-7	03-25-03/15:55
82136-8	MW-7D	03-25-03/16:00
82136-8-DL	MW-7D	03-25-03/16:00

PARAMETER	82136-5	82136-6	82136-7	82136-8	82136-8-DL
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	<25	<25	<1.0	<20	<50
Bromomethane (Methyl bromide), ug/l	<25	<25	<1.0	<20	<50
Vinyl chloride, ug/l	<25	<25	<1.0	23	<50
Chloroethane, ug/l	<25	<25	<1.0	<20	<50
Methylene chloride (Dichloromethane), ug/l	<120	<120	<5.0	490	540D
Acetone, ug/l	<620	<620	<25	<500	<1200
Carbon disulfide, ug/l	<25	<25	<1.0	<20	<50
1,1-Dichloroethene, ug/l	56	410	<1.0	240	260D
1,1-Dichloroethane, ug/l	<25	30	<1.0	61	69D
cis-1,2-Dichloroethene, ug/l	140	330	<1.0	2100	2200D
trans-1,2-Dichloroethene, ug/l	<25	<25	<1.0	<20	<50
Chloroform, ug/l	<25	<25	<1.0	<20	<50
1,2-Dichloroethane, ug/l	<25	<25	<1.0	<20	<50
2-Butanone (MEK), ug/l	<250	<250	<10	<200	<500
1,1,1-Trichloroethane, ug/l	42	44	<1.0	750	780D
Carbon tetrachloride, ug/l	35	<25	<1.0	<20	<50
Bromodichloromethane, ug/l	<25	<25	<1.0	<20	<50

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Alpharetta, GA 30005

Cl Project No: 46546-047

Project: Ashland-Raleigh
Sampled By: Client
Code: 11043047

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-5	MW-3	03-25-03/15:05
82136-6	MW-3D	03-25-03/15:10
82136-7	MW-7	03-25-03/15:55
82136-8	MW-7D	03-25-03/16:00
82136-8-DL	MW-7D	03-25-03/16:00

PARAMETER	82136-5	82136-6	82136-7	82136-8	82136-8-DL
1,1,2,2-Tetrachloroethane, ug/l	<25	<25	<1.0	<20	<50
1,2-Dichloropropane, ug/l	<25	<25	<1.0	<20	<50
trans-1,3-Dichloropropene, ug/l	<25	<25	<1.0	<20	<50
Trichloroethene, ug/l	600	1800	<1.0	1400	1500D
Dibromochloromethane, ug/l	<25	<25	<1.0	<20	<50
1,1,2-Trichloroethane, ug/l	<25	<25	<1.0	<20	<50
Benzene, ug/l	<25	<25	<1.0	<20	<50
cis-1,3-Dichloropropene, ug/l	<25	<25	<1.0	<20	<50
Bromoform, ug/l	<25	<25	<1.0	<20	<50
2-Hexanone, ug/l	<250	<250	<10	<200	<500
4-Methyl-2-pentanone (MIBK), ug/l	<250	<250	<10	<200	<500
Tetrachloroethene, ug/l	2600	3200	15	7400E	8700D
Toluene, ug/l	<25	<25	<1.0	52	61D
Chlorobenzene, ug/l	<25	<25	<1.0	<20	<50
Ethylbenzene, ug/l	<25	<25	<1.0	32	<50
Styrene, ug/l	<25	<25	<1.0	<20	<50
Xylenes, Total, ug/l	<50	<50	<2.0	100	110D
Surrogate - Toluene-d8	90 %	90 %	92 %	92 %	92 %
Surrogate - 4-Bromofluorobenzene	92 %	92 %	96 %	92 %	90 %
Surrogate - Dibromofluoromethane	96 %	96 %	94 %	102 %	92 %
Dilution Factor	25	25	1	20	50
Prep Date	03.31.03	03.31.03	04.01.03	03.31.03	03.31.03
Analysis Date	03.31.03	03.31.03	04.01.03	03.31.03	03.31.03
Batch ID	1P0331	1P0331	1P0401	1P0331	1P0331

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LOG NO: S3-82136
Received: 27 MAR 03
Reported: 04 APR 03

Mr. Scott Buwalda
URS Corporation
5900 Windward Parkway, Suite 400
Alpharetta, GA 30005

Cl Project No: 46546-047

Project: Ashland-Raleigh
Sampled By: Client
Code: 11043047

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-9	MW-13D	03-25-03/16:29
82136-10	MW-8	03-26-03/08:45
82136-11	MW-8D	03-26-03/08:58
82136-11-DL	MW-8D	03-26-03/08:58

PARAMETER	82136-9	82136-10	82136-11	82136-11-DL
Volatiles by GC/MS (8260)				
Chloromethane, ug/l	<1.0	<10	<10	<250
Bromomethane (Methyl bromide), ug/l	<1.0	<10	<10	<250
Vinyl chloride, ug/l	<1.0	<10	<10	<250
Chloroethane, ug/l	<1.0	<10	<10	<250
Methylene chloride (Dichloromethane), ug/l	<5.0	<50	290	<1200
Acetone, ug/l	<25	<250	<250	<6200
Carbon disulfide, ug/l	<1.0	<10	<10	<250
1,1-Dichloroethene, ug/l	6.8	130	1900	2200D
1,1-Dichloroethane, ug/l	<1.0	23	29	<250
cis-1,2-Dichloroethene, ug/l	<1.0	1100	180	270D
trans-1,2-Dichloroethene, ug/l	<1.0	<10	<10	<250
Chloroform, ug/l	<1.0	19	29	<250
1,2-Dichloroethane, ug/l	<1.0	<10	12	<250
2-Butanone (MEK), ug/l	<10	<100	<100	<2500
1,1,1-Trichloroethane, ug/l	<1.0	14	380	360D
Carbon tetrachloride, ug/l	8.1	<10	400	390D
Bromodichloromethane, ug/l	<1.0	<10	<10	<250

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Project: Ashland-Raleigh
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-9	MW-13D	03-25-03/16:29
82136-10	MW-8	03-26-03/08:45
82136-11	MW-8D	03-26-03/08:58
82136-11-DL	MW-8D	03-26-03/08:58

PARAMETER	82136-9	82136-10	82136-11	82136-11-DL
1,1,2,2-Tetrachloroethane, ug/l	<1.0	<10	<10	<250
1,2-Dichloropropane, ug/l	<1.0	<10	<10	<250
trans-1,3-Dichloropropene, ug/l	<1.0	<10	<10	<250
Trichloroethene, ug/l	18	430	9400E	17000D
Dibromochloromethane, ug/l	<1.0	<10	<10	<250
1,1,2-Trichloroethane, ug/l	<1.0	<10	23	<250
Benzene, ug/l	<1.0	<10	<10	<250
cis-1,3-Dichloropropene, ug/l	<1.0	<10	<10	<250
Bromoform, ug/l	<1.0	<10	<10	<250
2-Hexanone, ug/l	<10	<100	<100	<2500
4-Methyl-2-pentanone (MIBK), ug/l	<10	<100	<100	<2500
Tetrachloroethene, ug/l	20	850	25000E	42000D
Toluene, ug/l	<1.0	<10	<10	<250
Chlorobenzene, ug/l	<1.0	<10	<10	<250
Ethylbenzene, ug/l	<1.0	<10	<10	<250
Styrene, ug/l	<1.0	<10	<10	<250
Xylenes, Total, ug/l	<2.0	<20	<20	<500
Surrogate - Toluene-d8	84 %	90 %	86 %	90 %
Surrogate - 4-Bromofluorobenzene	76 %	92 %	76 %	90 %
Surrogate - Dibromofluoromethane	104 %	100 %	98 %	98 %
Dilution Factor	1	10	10	250
Prep Date	03.31.03	03.31.03	03.31.03	03.31.03
Analysis Date	03.31.03	03.31.03	03.31.03	03.31.03
Batch ID	1P0331	1P0331	1P0331	1P0331

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Code: 11043047

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-12	MW-11D	03-26-03/09:40
82136-13	MW-5	03-26-03/10:30
82136-14	MW-12D	03-26-03/11:00
82136-15	DUP-1	03-25-03
82136-16	Trip Blank	03-26-03

PARAMETER	82136-12	82136-13	82136-14	82136-15	82136-16
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	<50	<200	<100	<10	<1.0
Bromomethane (Methyl bromide), ug/l	<50	<200	<100	<10	<1.0
Vinyl chloride, ug/l	<50	<200	<100	<10	<1.0
Chloroethane, ug/l	<50	<200	<100	<10	<1.0
Methylene chloride (Dichloromethane), ug/l	<250	<1000	<500	<50	<5.0
Acetone, ug/l	<1200	<5000	<2500	<250	<25
Carbon disulfide, ug/l	<50	<200	<100	<10	<1.0
1,1-Dichloroethene, ug/l	<50	230	760	46	<1.0
1,1-Dichloroethane, ug/l	<50	<200	<100	<10	<1.0
cis-1,2-Dichloroethene, ug/l	<50	<200	<100	53	<1.0
trans-1,2-Dichloroethene, ug/l	<50	<200	<100	<10	<1.0
Chloroform, ug/l	<50	<200	<100	<10	<1.0
1,2-Dichloroethane, ug/l	<50	<200	<100	<10	<1.0
2-Butanone (MEK), ug/l	<500	<2000	<1000	<100	<10
1,1,1-Trichloroethane, ug/l	<50	<200	160	160	<1.0
Carbon tetrachloride, ug/l	<50	<200	360	<10	<1.0
Bromodichloromethane, ug/l	<50	<200	<100	<10	<1.0

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-12	MW-11D	03-26-03/09:40
82136-13	MW-5	03-26-03/10:30
82136-14	MW-12D	03-26-03/11:00
82136-15	DUP-1	03-25-03
82136-16	Trip Blank	03-26-03

PARAMETER	82136-12	82136-13	82136-14	82136-15	82136-16
1,1,2,2-Tetrachloroethane, ug/l	<50	<200	<100	<10	<1.0
1,2-Dichloropropane, ug/l	<50	<200	<100	<10	<1.0
trans-1,3-Dichloropropene, ug/l	<50	<200	<100	<10	<1.0
Trichloroethene, ug/l	87	860	5900	43	<1.0
Dibromochloromethane, ug/l	<50	<200	<100	<10	<1.0
1,1,2-Trichloroethane, ug/l	<50	<200	<100	<10	<1.0
Benzene, ug/l	<50	<200	<100	<10	<1.0
cis-1,3-Dichloropropene, ug/l	<50	<200	<100	<10	<1.0
Bromoform, ug/l	<50	<200	<100	<10	<1.0
2-Hexanone, ug/l	<500	<2000	<1000	<100	<10
4-Methyl-2-pentanone (MIBK), ug/l	<500	<2000	<1000	<100	<10
Tetrachloroethene, ug/l	6100	16000	13000	1300	<1.0
Toluene, ug/l	<50	<200	<100	<10	<1.0
Chlorobenzene, ug/l	<50	<200	<100	<10	<1.0
Ethylbenzene, ug/l	<50	<200	<100	<10	<1.0
Styrene, ug/l	<50	<200	<100	<10	<1.0
Xylenes, Total, ug/l	<100	<400	<200	<20	<2.0
Surrogate - Toluene-d8	84 %	88 %	90 %	84 %	90 %
Surrogate - 4-Bromofluorobenzene	74 %	90 %	94 %	74 %	92 %
Surrogate - Dibromofluoromethane	104 %	100 %	96 %	98 %	96 %
Dilution Factor	50	200	100	10	1
Prep Date	03.31.03	03.31.03	03.31.03	03.31.03	03.31.03
Analysis Date	03.31.03	03.31.03	03.31.03	03.31.03	03.31.03
Batch ID	1P0331	1P0331	1P0331	1P0331	1P0331

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Cl Project No: 46546-047

Project: Ashland-Raleigh
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-17	Equ-Blk	03-26-03/13:00
82136-18	Field Blank	03-26-03/13:15

PARAMETER	82136-17	82136-18
Volatiles by GC/MS (8260)		
Chloromethane, ug/l	<1.0	<1.0
Bromomethane (Methyl bromide), ug/l	<1.0	<1.0
Vinyl chloride, ug/l	<1.0	<1.0
Chloroethane, ug/l	<1.0	<1.0
Methylene chloride (Dichloromethane), ug/l	<5.0	<5.0
Acetone, ug/l	<25	<25
Carbon disulfide, ug/l	<1.0	<1.0
1,1-Dichloroethene, ug/l	<1.0	<1.0
1,1-Dichloroethane, ug/l	<1.0	<1.0
cis-1,2-Dichloroethene, ug/l	<1.0	<1.0
trans-1,2-Dichloroethene, ug/l	<1.0	<1.0
Chloroform, ug/l	1.2	1.3
1,2-Dichloroethane, ug/l	<1.0	<1.0
2-Butanone (MEK), ug/l	<10	<10
1,1,1-Trichloroethane, ug/l	<1.0	<1.0
Carbon tetrachloride, ug/l	<1.0	<1.0
Bromodichloromethane, ug/l	<1.0	<1.0
1,1,2,2-Tetrachloroethane, ug/l	<1.0	<1.0
1,2-Dichloropropane, ug/l	<1.0	<1.0

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-17	Equ-Blk	03-26-03/13:00
82136-18	Field Blank	03-26-03/13:15

PARAMETER	82136-17	82136-18
trans-1,3-Dichloropropene, ug/l	<1.0	<1.0
Trichloroethene, ug/l	<1.0	<1.0
Dibromochloromethane, ug/l	<1.0	<1.0
1,1,2-Trichloroethane, ug/l	<1.0	<1.0
Benzene, ug/l	<1.0	<1.0
cis-1,3-Dichloropropene, ug/l	<1.0	<1.0
Bromoform, ug/l	<1.0	<1.0
2-Hexanone, ug/l	<10	<10
4-Methyl-2-pentanone (MIBK), ug/l	<10	<10
Tetrachloroethene, ug/l	<1.0	<1.0
Toluene, ug/l	<1.0	<1.0
Chlorobenzene, ug/l	<1.0	<1.0
Ethylbenzene, ug/l	<1.0	<1.0
Styrene, ug/l	<1.0	<1.0
Xylenes, Total, ug/l	<2.0	<2.0
Surrogate - Toluene-d8	82 %	92 %
Surrogate - 4-Bromofluorobenzene	80 %	90 %
Surrogate - Dibromofluoromethane	102 %	98 %
Dilution Factor	1	1
Prep Date	03.31.03	03.31.03
Analysis Date	03.31.03	03.31.03
Batch ID	1P0331	1P0331

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-19	Method Blank	
82136-20	Lab Control Standard % Recovery	
82136-21	Lab Control Standard Result	
82136-22	Method Blank	
82136-23	Lab Control Standard % Recovery	

PARAMETER	82136-19	82136-20	82136-21	82136-22	82136-23
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	<1.0	---	---	<1.0	---
Bromomethane (Methyl bromide), ug/l	<1.0	---	---	<1.0	---
Vinyl chloride, ug/l	<1.0	---	---	<1.0	---
Chloroethane, ug/l	<1.0	---	---	<1.0	---
Methylene chloride (Dichloromethane), ug/l	<5.0	---	---	<5.0	---
Acetone, ug/l	<25	---	---	<25	---
Carbon disulfide, ug/l	<1.0	---	---	<1.0	---
1,1-Dichloroethene, ug/l	<1.0	88 %	44	<1.0	90 %
1,1-Dichloroethane, ug/l	<1.0	---	---	<1.0	---
cis-1,2-Dichloroethene, ug/l	<1.0	---	---	<1.0	---
trans-1,2-Dichloroethene, ug/l	<1.0	---	---	<1.0	---
Chloroform, ug/l	<1.0	---	---	<1.0	---
1,2-Dichloroethane, ug/l	<1.0	---	---	<1.0	---
2-Butanone (MEK), ug/l	<10	---	---	<10	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---	<1.0	---
Carbon tetrachloride, ug/l	<1.0	---	---	<1.0	---

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Sampled By: Client
Code: 11043047

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-19	Method Blank	
82136-20	Lab Control Standard % Recovery	
82136-21	Lab Control Standard Result	
82136-22	Method Blank	
82136-23	Lab Control Standard % Recovery	

PARAMETER	82136-19	82136-20	82136-21	82136-22	82136-23
Bromodichloromethane, ug/l	<1.0	---	---	<1.0	---
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---	<1.0	---
1,2-Dichloropropane, ug/l	<1.0	---	---	<1.0	---
trans-1,3-Dichloropropene, ug/l	<1.0	---	---	<1.0	---
Trichloroethene, ug/l	<1.0	88 %	44	<1.0	80 %
Dibromochloromethane, ug/l	<1.0	---	---	<1.0	---
1,1,2-Trichloroethane, ug/l	<1.0	---	---	<1.0	---
Benzene, ug/l	<1.0	96 %	48	<1.0	84 %
cis-1,3-Dichloropropene, ug/l	<1.0	---	---	<1.0	---
Bromoform, ug/l	<1.0	---	---	<1.0	---
2-Hexanone, ug/l	<10	---	---	<10	---
4-Methyl-2-pentanone (MIBK), ug/l	<10	---	---	<10	---
Tetrachloroethene, ug/l	<1.0	---	---	<1.0	---
Toluene, ug/l	<1.0	94 %	47	<1.0	94 %
Chlorobenzene, ug/l	<1.0	88 %	44	<1.0	88 %
Ethylbenzene, ug/l	<1.0	---	---	<1.0	---
Styrene, ug/l	<1.0	---	---	<1.0	---
Xylenes, Total, ug/l	<2.0	---	---	<2.0	---
Surrogate - Toluene-d8	94 %	94 %	47	88 %	90 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-19	Method Blank	
82136-20	Lab Control Standard % Recovery	
82136-21	Lab Control Standard Result	
82136-22	Method Blank	
82136-23	Lab Control Standard % Recovery	

PARAMETER	82136-19	82136-20	82136-21	82136-22	82136-23
Surrogate - 4-Bromofluorobenzene	92 %	84 %	42	84 %	96 %
Surrogate - Dibromofluoromethane	94 %	96 %	48	100 %	96 %
Dilution Factor	1	1	1	1	1
Prep Date	03.31.03	03.31.03	03.31.03	04.01.03	04.01.03
Analysis Date	03.31.03	03.31.03	03.31.03	04.01.03	04.01.03
Batch ID	1P0331	1P0331	1P0331	1P0401	1P0401

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
82136-24	Lab Control Standard Result	

PARAMETER	82136-24
Volatiles by GC/MS (8260)	
1,1-Dichloroethene, ug/l	45
Trichloroethene, ug/l	40
Benzene, ug/l	42
Toluene, ug/l	47
Chlorobenzene, ug/l	44
Surrogate - Toluene-d8	45
Surrogate - 4-Bromofluorobenzene	48
Surrogate - Dibromofluoromethane	48
Dilution Factor	1
Prep Date	04.01.03
Analysis Date	04.01.03
Batch ID	1P0401

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

for Steven J. White, Project Manager

Final Page Of Report

Serial Number 01970

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

☑ STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Ashland, Raleigh	PROJECT NO.: 46546 047	PROJECT LOCATION (STATE): ~~SA~~ NC	PAGE 1 OF 2
STL (LAB) PROJECT MANAGER: Steve White	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ☑ DATE DUE 4-12-03
CLIENT (SITE) PM: Scott Buwalda	CLIENT PHONE: 678 356 8247	CLIENT FAX: 678 356 0055	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
CLIENT NAME: URS	CLIENT E-MAIL: scott_buwalda@urscorp.com		
CLIENT ADDRESS: 5900 Windward Pkwy. Ste 400, Alpharetta, GA 30005			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
COMPANY CONTRACTING THIS WORK (if applicable):			

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT,...)

REQUIRED ANALYSIS: 8260; HCl

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-25-03	9:10	MW-4	G	✓				3	Please Fax
	9:40	MW-1							ressults to:
	14:00	MW-2							Chris Miller
	14:30	MW-2D							678 356 0055
	15:05	MW-3							
	15:10	MW-3D							
	15:55	MW-7							
	16:00	MW-7D							
	16:29	MW-13D							
3-26-03	8:45	MW-8							
3-26-03	8:58	MW-8D							
3-26-03	9:40	MW-11D							

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Thomas Ruin	1-4-03	507	[signature]	3-26-03	15:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	3/27/03	9:25	YES ○ NO ○		5382136	

STL 8240-680 (12/02)

Serial Number 01971

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

(✓) STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

( ) Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	
STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM Same As	CLIENT PHONE	CLIENT FAX	
CLIENT NAME 1st COC	CLIENT E-MAIL		
CLIENT ADDRESS			
COMPANY CONTRACTING THIS WORK (if applicable)			

PAGE 2 OF 2

STANDARD REPORT DELIVERY (✓)
DATE DUE 4-12-03
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260	REQUIRED ANALYSIS: HCl	REMARKS
3-26-03	10:30	MW-5	G	✓				3		
3-26-03	11:00	MW-12D	↓	↓				↓		See 1 of 2
3-25-03	—	DUP-1								
		Trip Blank								
3-26-03	13:00	EQU-Blk								
3-26-03	13:15	Field Blank								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
			[signature]	3-26-03	15:00			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	3/27/03	9:25	YES ( ) NO ( )		S382136	