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Ground Water Sampling and Analysis Report
Third Creek Monofill
The City of Statesville
Statesville, North Carolina
February 22, 1996

Prepared for

The City of Statesville
Statesville, North Carolina

Prepared by

Aquaterra, Inc.
Greensboro, North Carolina

aquaterra® ENVIRONMENTAL CONSULTANTS:
POST OFFICE BOX 49532 • GREENSBORO, NC 27419 • (910) 852-5003 • FAX (910) 854-9199
A GREAT LAKES CHEMICAL CORPORATION COMPANY

February 22, 1996

Mr. L.F. Joe Hudson, Jr., Director
Water/Wastewater Treatment Department
The City of Statesville
Post Office Box 1111
Statesville, North Carolina 28687-1111

Reference: Ground Water Sampling and Analysis Report
Third Creek Monofill
City of Statesville
Statesville, North Carolina
Aquaterra Job No. 5302100

Dear Mr. Hudson:

Aquaterra, Inc., (Aquaterra) is pleased to submit this report regarding ground water quality assessment activities performed at the City of Statesville Third Creek Monofill site. The report discusses the technical services Aquaterra has provided, describes the field procedures, and presents the results of the ground water analytical testing.

If you require additional information, please contact us at (910) 852-5003.

Sincerely,

AQUATERRA, INC.

Susan Kite

Susan Kite, P.G.
Senior Project Manager

Kirk B. Pollard

senior peer review by

Kirk B. Pollard
Senior Project Manager

cc: Mr. George House-Brooks, Pierce, McLendon, Humphrey & Leonard, L.L.P.
Mr. Douglas Vaughn, P.E.-Peirson & Whitman
Mr. Dan Buir, NCDEHNR, Division of Solid Waste Management

GR6019/SK

Ground Water Sampling and Analysis Report
Third Creek Monofill
The City of Statesville
Statesville, North Carolina
February 22, 1996

1 Introduction

The City of Statesville operates a wastewater treatment plant at its Third Creek Facility located in Statesville, North Carolina (see Figure 1). The site operates under an NPDES permit (Permit No. 0020591) and a non-discharge permit (Permit No. WQ004040). Concerns of elevated concentrations of cadmium in the treatment system were raised in 1993. The non-discharge permit was modified to allow the removal and landfilling of over 20 years of accumulated solids from Aeration Basins 1 and 2 and the Digester in an effort to reduce the amount of cadmium in the wastewater treatment system. The sludge was placed in eight landfill trenches on property near the wastewater treatment plant. Subsequent sampling of the landfilled sludge identified cadmium levels in excess of the regulatory limit for cadmium according to the toxicity characteristic leaching procedure (TCLP) in seven of the eight trenches.

Based upon this investigation and the laboratory analytical results, the North Carolina Department of Environment, Health and Natural Resources, (NCDEHNR) Division of Solid Waste Management (DSWM) issued an Administrative Order of Consent (AOC) Docket #94-191 that was signed by the City of Statesville on March 8, 1995. Following the signing of the AOC, the City of Statesville contracted Aquaterra, Inc., (Aquaterra) to prepare, submit, and conduct a *Phase I Subsurface Characterization Work Plan* to address the requirements of the AOC.

The primary objective of the subsurface characterization activities was to determine the subsurface conditions at the site, including determining the ground water flow direction. The characterization activities included the installation of four borings in the surficial aquifer, and one boring advanced to auger refusal. In addition, four shallow ground water monitoring wells were installed. Aquaterra completed the subsurface characterization activities in mid-April 1995 and submitted a *Phase I Subsurface Characterization Report* and a *Ground Water Sampling and Analysis Plan* in May 1995. The four newly installed wells were initially sampled in June, 1995, and again in September, 1995. The purpose of this report is to summarize the December, 1995 ground water sampling event.

2 Ground Water Assessment

2.1 Ground Water Level Monitoring and Sampling

Static ground water levels were measured to the nearest 0.01 foot using a decontaminated electronic water level probe in monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8 on December 18, 1995 (see Figure 2 and Table 1). Ground water samples were collected from monitoring wells MW-5 through MW-8 on December 18 and December 19, 1995. In addition, the monitoring wells were sampled again on December 21, 1995, due to insufficient sample volume. Prior to sample collection, a minimum of three well volumes of ground water were bailed from each well to remove stagnant water so that a representative ground water sample could be obtained. The samples were collected within 1 hour of purging to minimize the loss of any volatile organic compounds (VOCs) present. Disposable Teflon bailers

were used to withdraw the samples. The ground water samples were collected in decontaminated, laboratory-provided containers according to EPA protocols.

The ground water samples for laboratory analysis were labeled with a tag identifying the sample number, job number, job name, date, time, sampler's initials, and the analysis to be conducted. The samples were logged onto a chain-of-custody form and stored and transported in an insulated cooler filled with ice. Custody of the water samples was maintained by Aquaterra personnel until delivery to the analytical laboratory. The samples were analyzed by PACE, Inc. located in Huntersville, North Carolina.

2.2 Laboratory Analysis

The samples were analyzed for VOCs according to SW-846 Method 8240, semi-volatile organic compounds (SVOCs) according to SW-846 Method 8270, total organic carbon (TOC) according to Method 9060, total organic halogens (TOX) according to Method 9020/9021, herbicides/pesticides according to Method 8080/8150, arsenic according to EPA CLP-M 206.2, selenium according to EPA CLP-M 270.2, barium, cadmium, chromium, silver, iron, manganese, and sodium according to EPA Method 200.7, lead acccording to EPA Method 239.2, mercury according to EPA CLP-M 245.1, fluoride according to Method 340.2, sulfate according to EPA Method 375.4, chloride according to EPA Method 407B, nitrate according to EPA Method 418C, phenols according to Method 510A, radium according to Method 903.1, and gross alpha and gross beta according to Method 900.0.

Monitoring well MW-8 (the background well) was sampled in four replicates for pH, conductivity, TOX and TOC.

Due to a lack of sample volume, monitoring well MW-6 was not analyzed for TOX.

3 Results

3.1 Aquifer Characteristics

Based upon the December 18, 1995, ground water levels, the direction of ground water flow appears to be to the southwest, responding to an average horizontal hydraulic gradient of approximately 0.023 foot per foot (see Figure 3).

3.2 Analytical Results

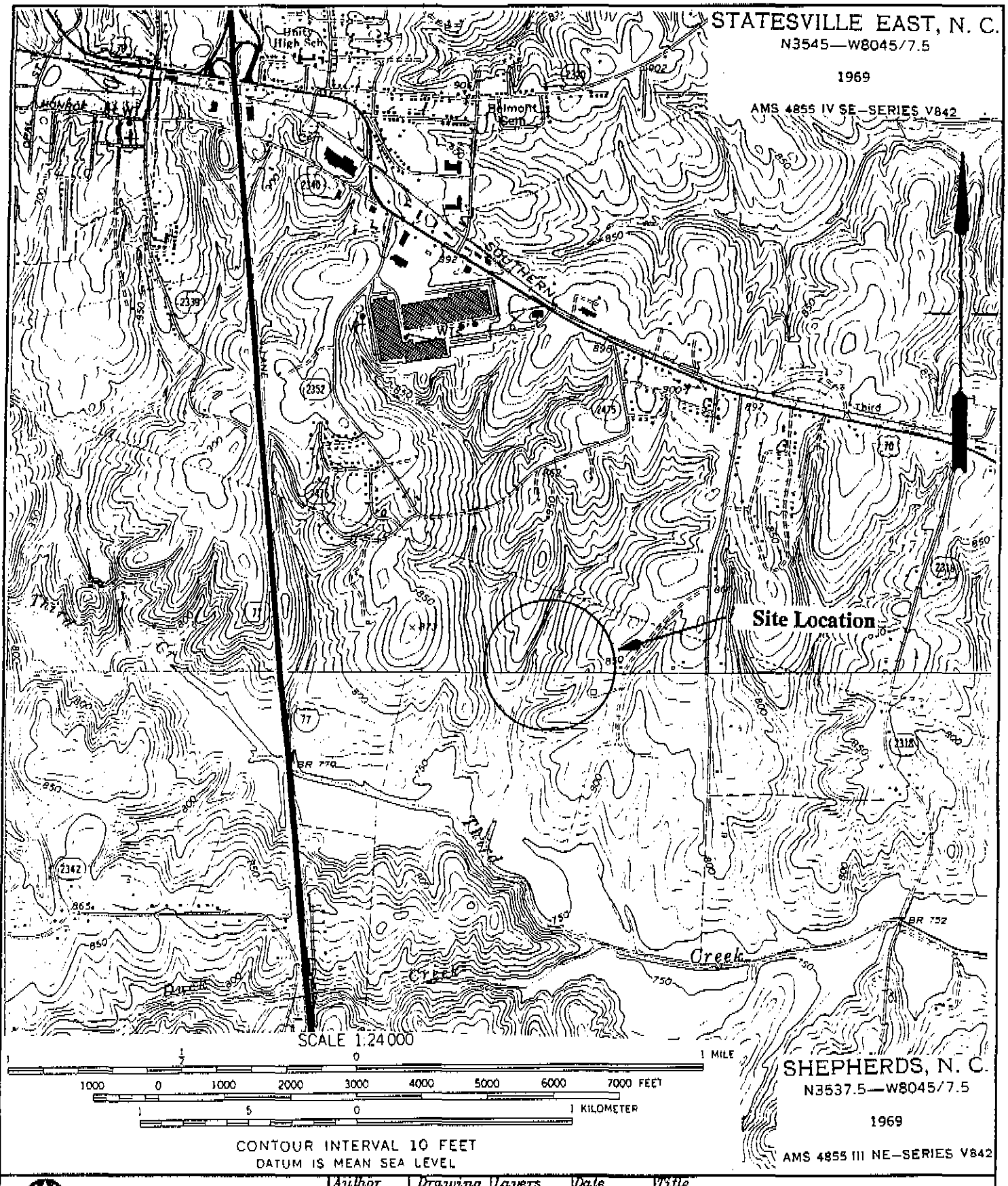
A summary of the laboratory analytical results for the metals and inorganic parameters for the 4 ground water samples along with the corresponding 15A NCAC 2L.0202 *Ground Water Quality Standards (2L Standards)* are summarized in Tables 2 and 3. The laboratory reports are included in Appendix A.

Barium, nitrogen as nitrate, TOC, Gross Alpha, Gross Beta, Radium 226, Radium 228, iron, manganese, and sodium were detected in each of the ground water samples. Chloride was detected in wells MW-5, MW-6, and MW-8. TOX was detected in wells MW-5 and MW-7. Lead was detected in the sample collected from monitoring wells MW-5, MW-7, and MW-8. Flouride was detected in MW-7. Chromium was detected in wells MW-7 and MW-8. Arsenic, cadmium, silver, sulfate, mercury, selenium, and phenols were not detected in any of the wells. No organic compounds (VOCs, SVOCs, phenols, pesticides, or herbicides) were detected in any of the samples collected from MW-5, MW-6, MW-7, or MW-8.

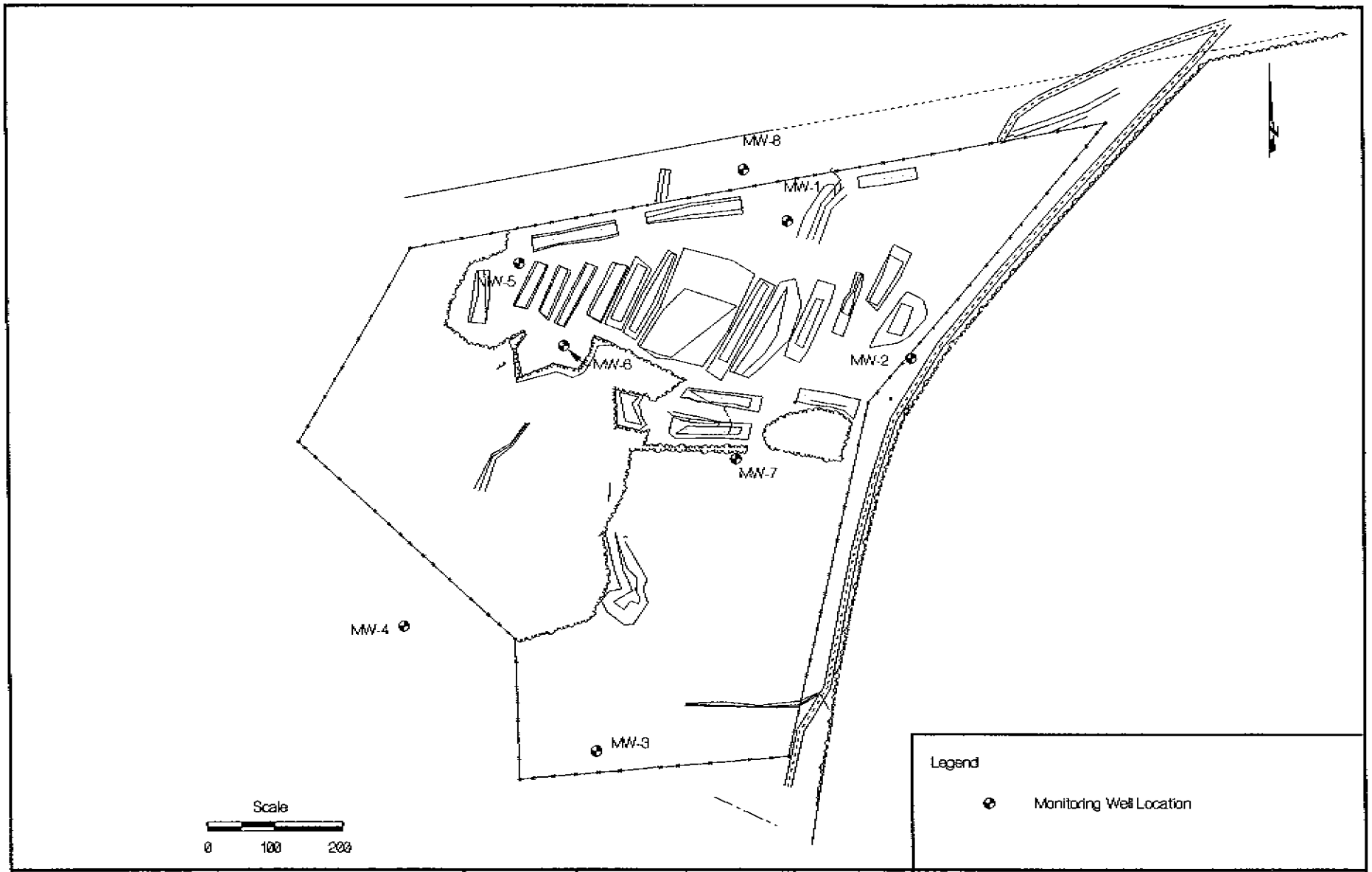
4 Conclusions and Recommendations

Based on the laboratory analytical results of the June, September, and December 1995 sampling events, the sampling parameter list can be modified to reflect the absence of VOCs, SVOCs, phenols, pesticides, and herbicides in monitoring wells MW-5, MW-6, MW-7, and MW-8.

Aquaterra recommends confirming the parameter list modifications with NCDEHNR, DSWM personnel prior to conducting the March 1996 sampling event.



	Author	Drawing	Layers	Date	Title
aquaterra	sk			4-07-95	Site Location Map
A GREAT LAKES CHEMICAL CORPORATION COMPANY	Job No. 5302100	Revision	Figure 1	Scale 1:24,000	Project Third Creek Monofill Statesville, North Carolina



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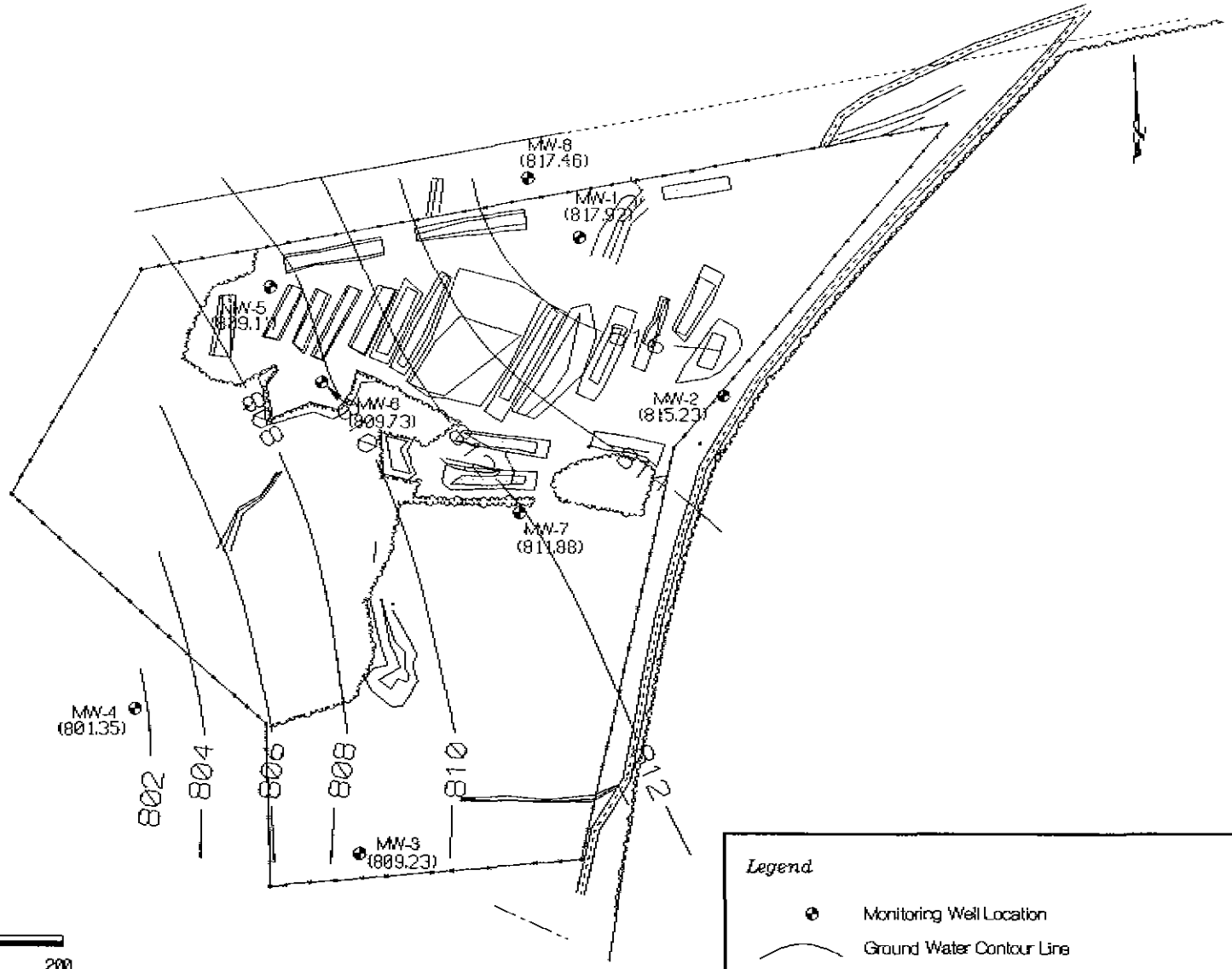
Author	Drawing	Layers	Date	Title
dg	53021-1	0,12,6	3-28-95	Monitoring Well Location Map
Job No.	**Revision**	**Figure**	**Scale**	**Project**
5302100	7/24/95	2	1" = 200'	Third Creek Monofill Facility Statesville, North Carolina



Legend

Monitoring Well Location

Ground Water Contour Line

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Author	*Drawing*	*Layers*	*Date*	*Title*
dg	53021-1	02,5	3-28-95	Ground Water Contour Map (from December 18, 1995, Data)
Job No.	*Revision*	*Figure*	*Scale*	*Project*
5302101	2-11-96/ec	3	1" = 200'	Third Creek Monofill Facility Statesville, North Carolina

Table 1. Ground Water Elevations, Third Creek Monofill Site, December 18, 1995
Statesville, North Carolina

Well No.	Measuring Point Elevation (feet) (Top of Casing)	Depth to Water (feet)	Water Table Elevation (feet)	Screened Interval (feet below TOC)	pH	Conductivity (microsiemens)	Temperature (degrees F)
MW-1	860.08	42.16	817.92	59.28 - 69.28	NS	NS	NS
MW-2	847.94	32.71	815.23	29.44 - 39.44	NS	NS	NS
MW-3	823.85	14.62	809.23	23.15 - 33.15	NS	NS	NS
MW-4	814.68	13.33	801.35	19.88 - 29.88	NS	NS	NS
MW-5*	847.16	38.05	809.11	28.36 - 38.36	6.05	115	56
MW-6*	850.21	40.48	809.73	32.51 - 42.51	6.72	656	57
MW-7*	847.70	35.82	811.88	35.60 - 45.60	5.86	110	56
MW-8*	861.44	43.98	817.46	42.44 - 52.44	5.86	37	54

**Wells installed by Aquaterra, Inc./Geologic Exploration, Inc.*

All elevations referenced to previously determined MW-1 elevation

NS = Not sampled

Aquaterra Job No. 5302100

Table 2. **Metals and Inorganic Parameters of MW-5**
Third Creek Monofill Site, Statesville, North Carolina

Parameter	Units	Sample Dates 6/2/95	9/19/95	12/18/95	NCAC 2L Standard
Arsenic	mg/L	<0.005	<0.005	<0.005	0.05
Barium	mg/L	1.99	0.610	0.210	2.0
Cadmium	mg/L	<0.010	<0.010	<0.010	0.005
Chloride	mg/L	4.0	6.0	3.2	250.0
Chromium	mg/L	<0.010	0.010	<0.010	0.05
Fluoride, Total	mg/L	0.14	0.14	<0.10	2.0
Iron	mg/L	61	16	2.5	0.3
Lead	mg/L	0.10	<0.10	0.005	0.015
Manganese	mg/L	7.4	14	1.7	0.05
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0011
Nitrogen, Nitrate	mg/L	0.6	<0.1	0.49	10.0
Phenol, Low Level	mg/L	<0.002	NC	<0.005	0.30
Selenium	mg/L	<0.005	0.006	<0.005	0.05
Silver	mg/L	<0.005	<0.010	<0.005	0.018
Sodium	mg/L	4.2	8.4	2.5	NS
Sulfate	mg/L	2.0	<1.0	<1.0	250.0
Total Organic Carbon	mg/L	6	6	3.5	NS
Total Organic Halides	mg/L	0.021	0.14	0.009	NS
Gross Alpha	pCi/L	1.2	NC	1.2	15
Gross Beta	pCi/L	3.0	NC	3.5	NS
Radium 226	pCi/L	1.3	<0.2	1.2	*
Radium 228	pCi/L	1.6	<0.9	1.1	*

NC = No sample collected due to limited volume

NS = No standard

mg/L = Milligrams per Liter

pCi/L = Picocurries per Liter

** = Standard for combined radium 226 and radium 228 is 5 pCi/L*

NOTES: No organic compounds (pesticides, herbicides, VOCS or SVOCS) were detected in the samples collected 6/2/95 and 12/18/95.

Gross Apha, Gross Beta, Phenol, Pesiticides, herbicides and SVOCs not analyzed due to limited volume of sample in well, 9/19/95

No VOCs were detected in the sample collected 9/19/95.

Analytical Laboratory: PACE, Inc., Huntersville, North Carolina

Aquaterra Job No. 5302100

Table 2. (Con't) **Metals and Inorganic Parameters of MW-6**
Third Creek Monofill Site, Statesville, North Carolina

Parameter	Units	Sample Dates 6/5/95	9/19/95	12/18/95	NCAC 2L Standard
Arsenic	mg/L	<0.005	<0.005	<0.005	0.05
Barium	mg/L	0.405	0.192	0.170	2.0
Cadmium	mg/L	<0.010	<0.010	<0.010	0.005
Chloride	mg/L	3.5	2.5	2.2	250.0
Chromium	mg/L	<0.010	0.010	<0.010	0.05
Flouride, Total	mg/L	0.12	0.14	<0.1	2.0
Iron	mg/L	22	2.1	0.65	0.3
Lead	mg/L	<0.10	<0.10	<0.005	0.015
Manganese	mg/L	0.796	0.130	0.070	0.05
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0011
Nitrogen, Nitrate	mg/L	2.2	3.1	2.1	10.0
Phenol, Low Level	mg/L	<0.002	<0.002	<0.005	0.30
Selenium	mg/L	<0.005	<0.005	<0.005	0.05
Silver	mg/L	<0.005	<0.010	<0.005	0.018
Sodium	mg/L	5.9	5.0	6.8	NS
Sulfate	mg/L	2.0	2	<1.0	250.0
Total Organic Carbon	mg/L	1	<1	2.4	NS
Total Organic Halides	mg/L	.007	0.018	NC	NS
Gross Alpha	pCi/L	<1.0	1.7	1.4	15
Gross Beta	pCi/L	3.9	3.5	2.8	NS
Radium 226	pCi/L	1.2	0.5	0.5	*
Radium 228	pCi/L	1.3	<0.9	1.0	*

NC = No Sample Collected

NS = No Standard

mg/L = Milligrams per Liter

pCi/L = Picocurries per Liter

** = Standard for combined radium 226 and radium 228 is 5 pCi/L*

NOTE: No organic compounds (pesticides, herbicides, VOCS or SVOCS) were detected in these samples

Analytical Laboratory: PACE, Inc., Huntersville, North Carolina

Aquaterra Job No. 5302100

Table 2. (Con't) **Metals and Inorganic Parameters of MW-7**
Third Creek Monofill Site, Statesville, North Carolina

Parameter	Units	Sample Dates 6/5/95	9/19/95	12/18/95	NCAC 2L Standard
Arsenic	mg/L	<0.005	<0.05	<0.005	0.05
Barium	mg/L	2.43	2.6	1.2	2.0
Cadmium	mg/L	<0.010	<0.010	<0.010	0.005
Chloride	mg/L	3.5	1.5	<2.7	250.0
Chromium	mg/L	0.143	0.185	0.063	0.05
Flouride, Total	mg/L	0.12	0.16	0.14	2.0
Iron	mg/L	210	190	64	0.3
Lead	mg/L	0.13	0.12	0.034	0.015
Manganese	mg/L	5.59	6.6	2.68	0.05
Mercury	mg/L	<0.0002	<0.0002	<0.0002	0.0011
Nitrogen, Nitrate	mg/L	1.1	2.8	1.4	10.0
Phenol, Low Level	mg/L	<0.002	<0.002	<0.005	0.30
Selenium	mg/L	<0.005	<0.05	<0.005	0.05
Silver	mg/L	<0.005	<0.010	<0.005	0.018
Sodium	mg/L	6.4	6.4	6.3	NS
Sulfate	mg/L	<1	<1	<1	250.0
Total Organic Carbon	mg/L	2	1	3.2	NS
Total Organic Halides	mg/L	0.013	0.012	0.019	NS
Gross Alpha	pCi/L	10.4	12.0	8.0	15
Gross Beta	pCi/L	14.1	11.3	6.6	NS
Radium 226	pCi/L	3.3	0.8	3.0	*
Radium 228	pCi/L	4.1	<0.9	2.5	*

NS = No Standard

mg/L = Milligrams per Liter

pCi/L = Picocurries per Liter

** = Standard for combined radium 226 and radium 228 is 5 pCi/L*

NOTE: No organic compounds (pesticides, herbicides, VOCS or SVOCS) were detected in these samples

Analytical Laboratory: PACE, Inc., Huntersville, North Carolina

Aquaterra Job No. 5302100

Table 2. (Con't)

Metals and Inorganic Parameters of MW-8
Third Creek Monofill Site, Statesville, North Carolina

Parameter	Units	Sample Dates 6/2/95	9/18/95	12/18/95	NCAC 2L Standard
Arsenic	mg/L	<0.005	<0.005	<0.005	0.05
Barium	mg/L	0.800	0.730	0.74	2.0
Cadmium	mg/L	<0.010	<0.010	<0.010	0.005
Chloride	mg/L	2.5	2.5	5.0	250.0
Chromium	mg/L	<0.010	0.022	0.017	0.05
Flouride, Total	mg/L	0.21	0.14	<0.1	2.0
Iron	mg/L	26	27	27	0.3
Lead	mg/L	<0.10	<0.10	0.035	0.015
Manganese	mg/L	1.07	1.34	1.26	0.05
Mercury	mg/L	0.0002	0.0005	<0.0002	0.0011
Nitrogen, Nitrate	mg/L	1.4	3.4	1.2	10.0
Phenol, Low Level	mg/L	<0.002	<0.002	<0.005	0.30
Selenium	mg/L	<0.005	<0.005	<0.005	0.05
Silver	mg/L	<0.005	<0.010	<0.005	0.018
Sodium	mg/L	2.3	2.6	2.5	NS
Sulfate	mg/L	1	<1.0	<1.0	250.0
Total Organic Carbon	mg/L	2	<1.0	2.3	NS
Total Organic Halides	mg/L	<0.005	0.027	<5.0	NS
Gross Alpha	pCi/L	4.9	6.3	6.1	15
Gross Beta	pCi/L	5.6	7.2	5.4	NS
Radium 226	pCi/L	3.6	0.4	2.4	*
Radium 228	pCi/L	1.8	<0.9	1.2	*

NS = No Standard

mg/L = Milligrams per Liter

pCi/L = Picocurries per Liter

** = Standard for combined radium 226 and radium 228 is 5 pCi/L*

NOTE: No organic compounds (pesticides, herbicides, VOCS or SVOCS) were detected in these samples

Analytical Laboratory: PACE, Inc., Huntersville, North Carolina

Aquaterra Job No. 5302100

Table 3. TOC and TOX Replicates for MW-8, Third Creek Monofill Site, Statesville, North Carolina

Sample Date 12/18/95 - 12/21/95				
Sample I.D.	TOC (mg/L)	TOX (mg/L)	pH	Conductivity (microsiemens)
MW-8	2.3	<0.005	6.05	115
MW-8 dup 1	2.2	<0.005	6.05	115
MW-8 dup 2	2.2	<0.005	6.05	115
MW-8 dup 3	2.2	<0.005	6.05	115

mg/L = Milligrams per Liter

Analytical Laboratory: PACE, Inc., Huntersville, North Carolina

Aquaterra Job No. 5302100

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

January 15, 1996

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Ms. Susan Kite
Aquaterra Environmental Consultants
4600 Dundas St.
Suite 105
Greensboro, NC 27407

RE: PACE Project No. 651219.504
Client Reference: Third Creek

Dear Ms. Kite:

Enclosed is the report of laboratory analyses for samples received December 19 - 21, 1995.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Felicia Grogan

Felicia C Grogan
Project Manager

Enclosures

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Aquaterra Environmental Consultants
4600 Dundas St.
Suite 105
Greensboro, NC 27407

January 15, 1996
PACE Project Number: 651219504

Attn: Ms. Susan Kite

Client Reference: Third Creek

PACE Sample Number:			92 0522745		
Date Collected:			12/19/95		
Date Received:			12/19/95		
			MW-8		
Parameter	Units	MDL		METHOD	DATE ANALYZED
SUBCONTRACT ANALYSIS					
INDIVIDUAL PARAMETERS					
Gross Alpha	pCi/L		6.1	900.0	12/22/95
Gross Beta	pCi/L		5.4	900.0	12/22/95
Radium 226	pCi/L		2.4	903.1	12/27/95
Radium 228	pCi/L		1.2	903.1	12/27/95
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	12/30/95
Barium	mg/L	0.02	0.74	200.7	01/01/96
Cadmium	mg/L	0.010	ND	200.7	01/01/96
Chloride	mg/L	1	5.0	407B	12/21/95
Chromium	mg/L	0.010	0.017	200.7	01/01/96
Fluoride, Total	mg/L	0.1	ND	340.2	12/27/95
Iron	mg/L	0.10	27.0	200.7	01/01/96
Lead	mg/L	0.005	0.035	239.2	01/03/96
Manganese	mg/L	0.010	1.26	200.7	01/01/96
Mercury	mg/L	0.0002	ND	245.1	01/04/96
Nitrogen, Nitrate	mg/L	0.5	1.2	418C	01/05/96
Phenol, Low Level	mg/L	0.005	ND	510A	12/22/95
Selenium	mg/L	0.005	ND	270.2	12/30/95
Silver	mg/L	0.005	ND	200.7	01/01/96
Sodium	mg/L	1.0	2.5	200.7	01/01/96
Sulfate	mg/L	1	ND	375.4	12/21/95
Total Organic Carbon	mg/L	0.5	2.3	9060	01/04/96
Total Organic Halides	ug/L	5.0	ND	9020	12/27/95

9800 Kincey Avenue, Suite 100
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REPORT OF LABORATORY ANALYSIS

Ms. Susan Kite
Page 2

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0522745		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW-8		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Chloromethane	ug/L	10	ND		12/30/95
Chloroethene (Vinyl chloride)	ug/L	10	ND		12/30/95
Bromomethane	ug/L	10	ND		12/30/95
Chloroethane	ug/L	10	ND		12/30/95
1,1-Dichloroethene	ug/L	5.0	ND		12/30/95
Acetone	ug/L	100	ND		12/30/95
Carbon disulfide	ug/L	5.0	ND		12/30/95
Dichloromethane	ug/L	5.0	ND		12/30/95
trans-1,2-Dichloroethene	ug/L	5.0	ND		12/30/95
1,1-Dichloroethane	ug/L	5.0	ND		12/30/95
Vinyl acetate	ug/L	50	ND		12/30/95
Chloroform	ug/L	5.0	ND		12/30/95
1,2-Dichloroethane	ug/L	5.0	ND		12/30/95
2-Butanone (MEK)	ug/L	100	ND		12/30/95
1,1,1-Trichloroethane	ug/L	5.0	ND		12/30/95
Carbon tetrachloride	ug/L	5.0	ND		12/30/95
Benzene	ug/L	5.0	ND		12/30/95
Trichloroethene	ug/L	5.0	ND		12/30/95
1,2-Dichloropropane	ug/L	5.0	ND		12/30/95
Bromodichloromethane	ug/L	5.0	ND		12/30/95
cis-1,3-Dichloropropene	ug/L	5.0	ND		12/30/95
trans-1,3-Dichloropropene	ug/L	5.0	ND		12/30/95
1,1,2-Trichloroethane	ug/L	5.0	ND		12/30/95
Dibromochloromethane	ug/L	5.0	ND		12/30/95
Bromoform	ug/L	5.0	ND		12/30/95
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		12/30/95
Toluene	ug/L	5.0	ND		12/30/95
Tetrachloroethene	ug/L	5.0	ND		12/30/95
2-Hexanone	ug/L	50	ND		12/30/95
2-Chloroethoxyethene	ug/L	10	ND		12/30/95
Chlorobenzene	ug/L	5.0	ND		12/30/95

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REPORT OF LABORATORY ANALYSIS

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0522745		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW-8		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Ethylbenzene	ug/L	5.0	ND		12/30/95
Xylenes, Total	ug/L	5.0	ND		12/30/95
Styrene	ug/L	5.0	ND		12/30/95
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		12/30/95
Surrogate - 1,2-Dichloroethane-d4	%		86		12/30/95
Surrogate - Toluene-d8	%		102		12/30/95
Surrogate - Bromofluorobenzene	%		97		12/30/95
HERBICIDES, SELECTED CHLORINATED			(1)	8150	
2,4-D	ug/L	12	ND		12/29/95
2,4,5-T	ug/L	2.0	ND		12/29/95
Silvex	ug/L	2.0	ND		12/29/95
Date Extracted	Date		122695		12/26/95
BASE/NEUTRALS AND ACIDS				8270	
bis(2-Chloroethyl)ether	ug/L	10	ND		12/29/95
Phenol	ug/L	10	ND		12/29/95
2-Chlorophenol	ug/L	10	ND		12/29/95
1,3-Dichlorobenzene	ug/L	10	ND		12/29/95
1,4-Dichlorobenzene	ug/L	10	ND		12/29/95
1,2-Dichlorobenzene	ug/L	10	ND		12/29/95
Benzyl alcohol	ug/L	20	ND		12/29/95
bis(2-Chloroisopropyl)ether	ug/L	10	ND		12/29/95
2-Methylphenol	ug/L	10	ND		12/29/95
Hexachloroethane	ug/L	10	ND		12/29/95
n-Nitrosodi-n-propylamine	ug/L	10	ND		12/29/95
4-Methylphenol	ug/L	10	ND		12/29/95
Nitrobenzene	ug/L	10	ND		12/29/95
3,5,5-Trimethyl-2-cyclohexanone	ug/L	10	ND		12/29/95
2-Nitrophenol	ug/L	10	ND		12/29/95
2,4-Dimethylphenol	ug/L	10	ND		12/29/95
bis(2-Chloroethoxy)methane	ug/L	10	ND		12/29/95
Benzoic acid	ug/L	50	ND		12/29/95

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Client Reference: Third Creek

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Date Received:			12/19/95		
Client Sample ID:			MW-8		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRALS AND ACIDS				8270	
2,4-Dichlorophenol	ug/L	10	ND		12/29/95
1,2,4-Trichlorobenzene	ug/L	10	ND		12/29/95
Naphthalene	ug/L	10	ND		12/29/95
4-Chloroaniline	ug/L	20	ND		12/29/95
Hexachlorobutadiene	ug/L	10	ND		12/29/95
4-Chloro-3-methylphenol	ug/L	20	ND		12/29/95
2-Methylnaphthalene	ug/L	10	ND		12/29/95
Hexachlorocyclopentadiene	ug/L	10	ND		12/29/95
2,4,6-Trichlorophenol	ug/L	10	ND		12/29/95
2,4,5-Trichlorophenol	ug/L	10	ND		12/29/95
2-Chloronaphthalene	ug/L	10	ND		12/29/95
2-Nitroaniline	ug/L	50	ND		12/29/95
Acenaphthylene	ug/L	10	ND		12/29/95
Dimethyl phthalate	ug/L	10	ND		12/29/95
2,6-Dinitrotoluene	ug/L	10	ND		12/29/95
Acenaphthene	ug/L	10	ND		12/29/95
3-Nitroaniline	ug/L	50	ND		12/29/95
2,4-Dinitrophenol	ug/L	50	ND		12/29/95
Dibenzofuran	ug/L	10	ND		12/29/95
2,4-Dinitrotoluene	ug/L	10	ND		12/29/95
4-Nitrophenol	ug/L	50	ND		12/29/95
Fluorene	ug/L	10	ND		12/29/95
4-Chlorophenyl phenyl ether	ug/L	10	ND		12/29/95
Diethyl phthalate	ug/L	10	ND		12/29/95
4-Nitroaniline	ug/L	50	ND		12/29/95
2-Methyl-4,6-dinitrophenol	ug/L	50	ND		12/29/95
N-Nitrosodiphenylamine	ug/L	10	ND		12/29/95
4-Bromophenyl phenyl ether	ug/L	10	ND		12/29/95
Hexachlorobenzene	ug/L	10	ND		12/29/95
Pentachlorophenol	ug/L	50	ND		12/29/95
Phenanthrene	ug/L	10	ND		12/29/95

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0522745		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW-8		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRALS AND ACIDS				8270	
Anthracene	ug/L	10	ND		12/29/95
Di-n-butyl phthalate	ug/L	10	ND		12/29/95
Fluoranthene	ug/L	10	ND		12/29/95
Pyrene	ug/L	10	ND		12/29/95
Benzyl butyl phthalate	ug/L	10	ND		12/29/95
3,3-Dichlorobenzidine	ug/L	20	ND		12/29/95
Benz[a]anthracene	ug/L	10	ND		12/29/95
Chrysene	ug/L	10	ND		12/29/95
bis(2-Ethylhexyl)phthalate	ug/L	10	ND		12/29/95
Di-n-octylphthalate	ug/L	10	ND		12/29/95
Benzo[b]fluoranthene	ug/L	10	ND		12/29/95
Benzo[k]fluoranthene	ug/L	10	ND		12/29/95
Benzo[a]pyrene	ug/L	10	ND		12/29/95
Indeno[1,2,3,-cd]pyrene	ug/L	10	ND		12/29/95
Dibenz[a,h]anthracene	ug/L	10	ND		12/29/95
Benzo[g,h,i]perylene	ug/L	10	ND		12/29/95
Surrogate - 2-Fluorophenol	%		39		12/29/95
Surrogate - Phenol-d6	%		31		12/29/95
Surrogate - Nitrobenzene-d5	%		67		12/29/95
Surrogate - 2-Fluorobiphenyl	%		57		12/29/95
Surrogate - 2,4,6-Tribromophenol	%		66		12/29/95
Surrogate - Terphenyl-d14	%		69		12/29/95
Date Extracted, Base/Neutrals and Acids	Date		122295		12/22/95
PESTICIDES				8080	
alpha-BHC	ug/L	0.05	ND		12/26/95
beta-BHC	ug/L	0.05	ND		12/26/95
gamma-BHC (Lindane)	ug/L	0.05	ND		12/26/95
delta-BHC	ug/L	0.1	ND		12/26/95
Heptachlor	ug/L	0.05	ND		12/26/95
Aldrin	ug/L	0.05	ND		12/26/95
Heptachlor epoxide	ug/L	0.8	ND		12/26/95

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PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0522745		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW-8		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PESTICIDES				8080	
Endosulfan I	ug/L	0.1	ND		12/26/95
Dieldrin	ug/L	0.02	ND		12/26/95
Endrin	ug/L	0.06	ND		12/26/95
4,4-DDD	ug/L	0.1	ND		12/26/95
Endosulfan II	ug/L	0.1	ND		12/26/95
4,4-DDT	ug/L	0.1	ND		12/26/95
4,4-DDE	ug/L	0.1	ND		12/26/95
Endrin aldehyde	ug/L	0.2	ND		12/26/95
Endosulfan sulfate	ug/L	0.7	ND		12/26/95
Toxaphene	ug/L	2.4	ND		12/26/95
Chlordane (tech)	ug/L	0.2	ND		12/26/95
Methoxychlor	ug/L	1.0	ND		12/26/95
Date Extracted, Pesticides	Date		122095		12/20/95

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PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0522753		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW-7		
Parameter	Units	MDL		METHOD	DATE ANALYZED
SUBCONTRACT ANALYSIS					
INDIVIDUAL PARAMETERS					
Gross Alpha	pCi/L		8.0	900.0	12/22/95
Gross Beta	pCi/L		6.6	900.0	12/22/95
Radium 226	pCi/L		3.0	903.1	12/27/95
Radium 228	pCi/L		2.5	903.1	12/27/95
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	12/30/95
Barium	mg/L	0.02	1.2	200.7	01/01/96
Cadmium	mg/L	0.010	ND	200.7	01/01/96
Chloride	mg/L	1	2.7	407B	12/21/95
Chromium	mg/L	0.010	0.063	200.7	01/01/96
Fluoride, Total	mg/L	0.1	0.14	340.2	12/27/95
Iron	mg/L	0.10	64.0	200.7	01/01/96
Lead	mg/L	0.005	0.034	239.2	01/03/96
Manganese	mg/L	0.010	2.68	200.7	01/01/96
Mercury	mg/L	0.0002	ND	245.1	01/04/96
Nitrogen, Nitrate	mg/L	0.5	1.4	418C	01/05/96
Phenol, Low Level	mg/L	0.005	ND	510A	12/22/95
Selenium	mg/L	0.005	ND	270.2	12/30/95
Silver	mg/L	0.005	ND	200.7	01/01/96
Sodium	mg/L	1.0	6.3	200.7	01/01/96
Sulfate	mg/L	1	ND	375.4	12/21/95
Total Organic Carbon	mg/L	0.5	3.2	9060	01/04/96
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Chloromethane	ug/L	10	ND		12/30/95
Chloroethene (Vinyl chloride)	ug/L	10	ND		12/30/95
Bromomethane	ug/L	10	ND		12/30/95
Chloroethane	ug/L	10	ND		12/30/95
1,1-Dichloroethene	ug/L	5.0	ND		12/30/95

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0522753		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW-7		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Acetone	ug/L	100	ND		12/30/95
Carbon disulfide	ug/L	5.0	ND		12/30/95
Dichloromethane	ug/L	5.0	ND		12/30/95
trans-1,2-Dichloroethene	ug/L	5.0	ND		12/30/95
1,1-Dichloroethane	ug/L	5.0	ND		12/30/95
Vinyl acetate	ug/L	50	ND		12/30/95
Chloroform	ug/L	5.0	ND		12/30/95
1,2-Dichloroethane	ug/L	5.0	ND		12/30/95
2-Butanone (MEK)	ug/L	100	ND		12/30/95
1,1,1-Trichloroethane	ug/L	5.0	ND		12/30/95
Carbon tetrachloride	ug/L	5.0	ND		12/30/95
Benzene	ug/L	5.0	ND		12/30/95
Trichloroethene	ug/L	5.0	ND		12/30/95
1,2-Dichloropropane	ug/L	5.0	ND		12/30/95
Bromodichloromethane	ug/L	5.0	ND		12/30/95
cis-1,3-Dichloropropene	ug/L	5.0	ND		12/30/95
trans-1,3-Dichloropropene	ug/L	5.0	ND		12/30/95
1,1,2-Trichloroethane	ug/L	5.0	ND		12/30/95
Dibromochloromethane	ug/L	5.0	ND		12/30/95
Bromoform	ug/L	5.0	ND		12/30/95
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		12/30/95
Toluene	ug/L	5.0	ND		12/30/95
Tetrachloroethene	ug/L	5.0	ND		12/30/95
2-Hexanone	ug/L	50	ND		12/30/95
2-Chloroethoxyethene	ug/L	10	ND		12/30/95
Chlorobenzene	ug/L	5.0	ND		12/30/95
Ethylbenzene	ug/L	5.0	ND		12/30/95
Xylenes, Total	ug/L	5.0	ND		12/30/95
Styrene	ug/L	5.0	ND		12/30/95
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		12/30/95
Surrogate - 1,2-Dichloroethane-d4	%		88		12/30/95

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PACE Project Number: 651219504

Client Reference: Third Creek

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Client Sample ID:			MW-7		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Surrogate - Toluene-d8	%		100		12/30/95
Surrogate - Bromofluorobenzene	%		96		12/30/95
HERBICIDES, SELECTED CHLORINATED			(2)	8150	
2,4-D	ug/L	12	ND		12/29/95
2,4,5-T	ug/L	2.0	ND		12/29/95
Silvex	ug/L	2.0	ND		12/29/95
Date Extracted	Date		122695		12/26/95
BASE/NEUTRALS AND ACIDS				8270	
bis(2-Chloroethyl)ether	ug/L	10	ND		12/29/95
Phenol	ug/L	10	ND		12/29/95
2-Chlorophenol	ug/L	10	ND		12/29/95
1,3-Dichlorobenzene	ug/L	10	ND		12/29/95
1,4-Dichlorobenzene	ug/L	10	ND		12/29/95
1,2-Dichlorobenzene	ug/L	10	ND		12/29/95
Benzyl alcohol	ug/L	20	ND		12/29/95
bis(2-Chloroisopropyl)ether	ug/L	10	ND		12/29/95
2-Methylphenol	ug/L	10	ND		12/29/95
Hexachloroethane	ug/L	10	ND		12/29/95
n-Nitrosodi-n-propylamine	ug/L	10	ND		12/29/95
4-Methylphenol	ug/L	10	ND		12/29/95
Nitrobenzene	ug/L	10	ND		12/29/95
3,5,5-Trimethyl-2-cyclohexanone	ug/L	10	ND		12/29/95
2-Nitrophenol	ug/L	10	ND		12/29/95
2,4-Dimethylphenol	ug/L	10	ND		12/29/95
bis(2-Chloroethoxy)methane	ug/L	10	ND		12/29/95
Benzoic acid	ug/L	50	ND		12/29/95
2,4-Dichlorophenol	ug/L	10	ND		12/29/95
1,2,4-Trichlorobenzene	ug/L	10	ND		12/29/95
Naphthalene	ug/L	10	ND		12/29/95
4-Chloroaniline	ug/L	20	ND		12/29/95
Hexachlorobutadiene	ug/L	10	ND		12/29/95

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Client Sample ID:			MW-7		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRALS AND ACIDS				8270	
4-Chloro-3-methylphenol	ug/L	20	ND		12/29/95
2-Methylnaphthalene	ug/L	10	ND		12/29/95
Hexachlorocyclopentadiene	ug/L	10	ND		12/29/95
2,4,6-Trichlorophenol	ug/L	10	ND		12/29/95
2,4,5-Trichlorophenol	ug/L	10	ND		12/29/95
2-Chloronaphthalene	ug/L	10	ND		12/29/95
2-Nitroaniline	ug/L	50	ND		12/29/95
Acenaphthylene	ug/L	10	ND		12/29/95
Dimethyl phthalate	ug/L	10	ND		12/29/95
2,6-Dinitrotoluene	ug/L	10	ND		12/29/95
Acenaphthene	ug/L	10	ND		12/29/95
3-Nitroaniline	ug/L	50	ND		12/29/95
2,4-Dinitrophenol	ug/L	50	ND		12/29/95
Dibenzofuran	ug/L	10	ND		12/29/95
2,4-Dinitrotoluene	ug/L	10	ND		12/29/95
4-Nitrophenol	ug/L	50	ND		12/29/95
Fluorene	ug/L	10	ND		12/29/95
4-Chlorophenyl phenyl ether	ug/L	10	ND		12/29/95
Diethyl phthalate	ug/L	10	ND		12/29/95
4-Nitroaniline	ug/L	50	ND		12/29/95
2-Methyl-4,6-dinitrophenol	ug/L	50	ND		12/29/95
N-Nitrosodiphenylamine	ug/L	10	ND		12/29/95
4-Bromophenyl phenyl ether	ug/L	10	ND		12/29/95
Hexachlorobenzene	ug/L	10	ND		12/29/95
Pentachlorophenol	ug/L	50	ND		12/29/95
Phenanthrene	ug/L	10	ND		12/29/95
Anthracene	ug/L	10	ND		12/29/95
Di-n-butyl phthalate	ug/L	10	ND		12/29/95
Fluoranthene	ug/L	10	ND		12/29/95
Pyrene	ug/L	10	ND		12/29/95
Benzyl butyl phthalate	ug/L	10	ND		12/29/95

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Date Received:			12/19/95		
Client Sample ID:			MW-7		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRALS AND ACIDS				8270	
3,3-Dichlorobenzidine	ug/L	20	ND		12/29/95
Benz[a]anthracene	ug/L	10	ND		12/29/95
Chrysene	ug/L	10	ND		12/29/95
bis(2-Ethylhexyl)phthalate	ug/L	10	ND		12/29/95
Di-n-octylphthalate	ug/L	10	ND		12/29/95
Benzo[b]fluoranthene	ug/L	10	ND		12/29/95
Benzo[k]fluoranthene	ug/L	10	ND		12/29/95
Benzo[a]pyrene	ug/L	10	ND		12/29/95
Indeno[1,2,3,-cd]pyrene	ug/L	10	ND		12/29/95
Dibenz[a,h]anthracene	ug/L	10	ND		12/29/95
Benzo[g,h,i]perylene	ug/L	10	ND		12/29/95
Surrogate - 2-Fluorophenol	%		38		12/29/95
Surrogate - Phenol-d6	%		30		12/29/95
Surrogate - Nitrobenzene-d5	%		61		12/29/95
Surrogate - 2-Fluorobiphenyl	%		53		12/29/95
Surrogate - 2,4,6-Tribromophenol	%		65		12/29/95
Surrogate - Terphenyl-d14	%		38		12/29/95
Date Extracted, Base/Neutrals and Acids	Date		122295		12/22/95
PESTICIDES				8080	
alpha-BHC	ug/L	0.05	ND		12/26/95
beta-BHC	ug/L	0.05	ND		12/26/95
gamma-BHC (Lindane)	ug/L	0.05	ND		12/26/95
delta-BHC	ug/L	0.1	ND		12/26/95
Heptachlor	ug/L	0.05	ND		12/26/95
Aldrin	ug/L	0.05	ND		12/26/95
Heptachlor epoxide	ug/L	0.8	ND		12/26/95
Endosulfan I	ug/L	0.1	ND		12/26/95
Dieldrin	ug/L	0.02	ND		12/26/95
Endrin	ug/L	0.06	ND		12/26/95
4,4-DDD	ug/L	0.1	ND		12/26/95
Endosulfan II	ug/L	0.1	ND		12/26/95
4,4-DDT	ug/L	0.1	ND		12/26/95

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PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0522753		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW-7		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PESTICIDES				8080	
4,4-DDE	ug/L	0.1	ND		12/26/95
Endrin aldehyde	ug/L	0.2	ND		12/26/95
Endosulfan sulfate	ug/L	0.7	ND		12/26/95
Toxaphene	ug/L	2.4	ND		12/26/95
Chlordane (tech)	ug/L	0.2	ND		12/26/95
Methoxychlor	ug/L	1.0	ND		12/26/95
Date Extracted, Pesticides	Date		122095		12/20/95

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PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0523563		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW8 dupl		
Parameter	Units	MDL	522745	METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Total Organic Carbon	mg/L	0.5	2.2	9060	01/04/96
Total Organic Halides	ug/L	5.0	ND	9020	12/27/95

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0523580		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW8 dup2		
Parameter	Units	MDL	522745	METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Total Organic Carbon	mg/L	0.5	2.2	9060	01/04/96

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PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0523598		
Date Collected:			12/19/95		
Date Received:			12/19/95		
Client Sample ID:			MW8 dup3		
Parameter	Units	MDL	522745	METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Total Organic Carbon	mg/L	0.5	2.2	9060	01/04/96

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0524659		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-5		
Parameter	Units	MDL		METHOD	DATE ANALYZED
SUBCONTRACT ANALYSIS					
INDIVIDUAL PARAMETERS					
Gross Alpha	pCi/L		1.2	900.0	12/28/95
Gross Beta	pCi/L		3.5	900.0	12/28/95
Radium 226	pCi/L		1.2	903.1	01/03/96
Radium 228	pCi/L		1.1 (3)	903.1	01/03/96
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	12/30/95
Barium	mg/L	0.02	0.21	200.7	01/01/96
Cadmium	mg/L	0.010	ND	200.7	01/01/96
Chloride	mg/L	1	3.2	407B	01/02/96
Chromium	mg/L	0.010	ND	200.7	01/01/96
Fluoride, Total	mg/L	0.1	ND	340.2	12/27/95
Iron	mg/L	0.10	2.5	200.7	01/01/96
Lead	mg/L	0.005	0.005	239.2	01/03/96
Manganese	mg/L	0.010	1.7	200.7	01/01/96
Mercury	mg/L	0.0002	ND	245.1	01/04/96
Nitrogen, Nitrate	mg/L	0.1	0.49	418C	01/09/96
Phenol, Low Level	mg/L	0.005	ND	510A	01/04/96
Selenium	mg/L	0.005	ND	270.2	12/30/95
Silver	mg/L	0.005	ND	200.7	01/01/96
Sodium	mg/L	1.0	2.5	200.7	01/01/96
Sulfate	mg/L	1	ND	375.4	01/04/96
Total Organic Carbon	mg/L	0.5	3.5	9060	01/04/96
Total Organic Halides	ug/L	5.0	9	9020	12/27/95
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Chloromethane	ug/L	10	ND		01/04/96
Chloroethene (Vinyl chloride)	ug/L	10	ND		01/04/96
Bromomethane	ug/L	10	ND		01/04/96
Chloroethane	ug/L	10	ND		01/04/96

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PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0524659		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-5		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
1,1-Dichloroethene	ug/L	5.0	ND		01/04/96
Acetone	ug/L	10	ND		01/04/96
Carbon disulfide	ug/L	5.0	ND		01/04/96
Dichloromethane	ug/L	5.0	ND		01/04/96
trans-1,2-Dichloroethene	ug/L	5.0	ND		01/04/96
1,1-Dichloroethane	ug/L	5.0	ND		01/04/96
Vinyl acetate	ug/L	10	ND		01/04/96
Chloroform	ug/L	5.0	ND		01/04/96
1,2-Dichloroethane	ug/L	5.0	ND		01/04/96
2-Butanone (MEK)	ug/L	10	ND		01/04/96
1,1,1-Trichloroethane	ug/L	5.0	ND		01/04/96
Carbon tetrachloride	ug/L	5.0	ND		01/04/96
Benzene	ug/L	5.0	ND		01/04/96
Trichloroethene	ug/L	5.0	ND		01/04/96
1,2-Dichloropropane	ug/L	5.0	ND		01/04/96
Bromodichloromethane	ug/L	5.0	ND		01/04/96
cis-1,3-Dichloropropene	ug/L	5.0	ND		01/04/96
trans-1,3-Dichloropropene	ug/L	5.0	ND		01/04/96
1,1,2-Trichloroethane	ug/L	5.0	ND		01/04/96
Dibromochloromethane	ug/L	5.0	ND		01/04/96
Bromoform	ug/L	5.0	ND		01/04/96
4-Methyl-2-pentanone (MIBK)	ug/L	10	ND		01/04/96
Toluene	ug/L	5.0	ND		01/04/96
Tetrachloroethene	ug/L	5.0	ND		01/04/96
2-Hexanone	ug/L	10	ND		01/04/96
Chlorobenzene	ug/L	5.0	ND		01/04/96
Ethylbenzene	ug/L	5.0	ND		01/04/96
Xylenes, Total	ug/L	5.0	ND		01/04/96
Styrene	ug/L	5.0	ND		01/04/96
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		01/04/96
Surrogate - 1,2-Dichloroethane-d4	%		92		01/04/96

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Client Reference: Third Creek

PACE Sample Number:			92 0524659		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-5		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Surrogate - Toluene-d8	%		98		01/04/96
Surrogate - Bromofluorobenzene	%		90		01/04/96
HERBICIDES, SELECTED CHLORINATED			(4)	8150	
2,4-D	ug/L	12	ND		12/29/95
2,4,5-T	ug/L	2.0	ND		12/29/95
Silvex	ug/L	2.0	ND		12/29/95
Date Extracted	Date		122695		12/26/95
BASE/NEUTRALS AND ACIDS				8270	
bis(2-Chloroethyl)ether	ug/L	10	ND		12/29/95
Phenol	ug/L	10	ND		12/29/95
2-Chlorophenol	ug/L	10	ND		12/29/95
1,3-Dichlorobenzene	ug/L	10	ND		12/29/95
1,4-Dichlorobenzene	ug/L	10	ND		12/29/95
1,2-Dichlorobenzene	ug/L	10	ND		12/29/95
Benzyl alcohol	ug/L	20	ND		12/29/95
bis(2-Chloroisopropyl)ether	ug/L	10	ND		12/29/95
2-Methylphenol	ug/L	10	ND		12/29/95
Hexachloroethane	ug/L	10	ND		12/29/95
n-Nitrosodi-n-propylamine	ug/L	10	ND		12/29/95
4-Methylphenol	ug/L	10	ND		12/29/95
Nitrobenzene	ug/L	10	ND		12/29/95
3,5,5-Trimethyl-2-cyclohexanone	ug/L	10	ND		12/29/95
2-Nitrophenol	ug/L	10	ND		12/29/95
2,4-Dimethylphenol	ug/L	10	ND		12/29/95
bis(2-Chloroethoxy)methane	ug/L	10	ND		12/29/95
Benzoic acid	ug/L	50	ND		12/29/95
2,4-Dichlorophenol	ug/L	10	ND		12/29/95
1,2,4-Trichlorobenzene	ug/L	10	ND		12/29/95
Naphthalene	ug/L	10	ND		12/29/95
4-Chloroaniline	ug/L	20	ND		12/29/95
Hexachlorobutadiene	ug/L	10	ND		12/29/95

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Client Reference: Third Creek

PACE Sample Number:			92 0524659		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-5		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRALS AND ACIDS				8270	
4-Chloro-3-methylphenol	ug/L	20	ND		12/29/95
2-Methylnaphthalene	ug/L	10	ND		12/29/95
Hexachlorocyclopentadiene	ug/L	10	ND		12/29/95
2,4,6-Trichlorophenol	ug/L	10	ND		12/29/95
2,4,5-Trichlorophenol	ug/L	10	ND		12/29/95
2-Chloronaphthalene	ug/L	10	ND		12/29/95
2-Nitroaniline	ug/L	50	ND		12/29/95
Acenaphthylene	ug/L	10	ND		12/29/95
Dimethyl phthalate	ug/L	10	ND		12/29/95
2,6-Dinitrotoluene	ug/L	10	ND		12/29/95
Acenaphthene	ug/L	10	ND		12/29/95
3-Nitroaniline	ug/L	50	ND		12/29/95
2,4-Dinitrophenol	ug/L	50	ND		12/29/95
Dibenzofuran	ug/L	10	ND		12/29/95
2,4-Dinitrotoluene	ug/L	10	ND		12/29/95
4-Nitrophenol	ug/L	50	ND		12/29/95
Fluorene	ug/L	10	ND		12/29/95
4-Chlorophenyl phenyl ether	ug/L	10	ND		12/29/95
Diethyl phthalate	ug/L	10	ND		12/29/95
4-Nitroaniline	ug/L	50	ND		12/29/95
2-Methyl-4,6-dinitrophenol	ug/L	50	ND		12/29/95
N-Nitrosodiphenylamine	ug/L	10	ND		12/29/95
4-Bromophenyl phenyl ether	ug/L	10	ND		12/29/95
Hexachlorobenzene	ug/L	10	ND		12/29/95
Pentachlorophenol	ug/L	50	ND		12/29/95
Phenanthrene	ug/L	10	ND		12/29/95
Anthracene	ug/L	10	ND		12/29/95
Di-n-butyl phthalate	ug/L	10	ND		12/29/95
Fluoranthene	ug/L	10	ND		12/29/95
Pyrene	ug/L	10	ND		12/29/95
Benzyl butyl phthalate	ug/L	10	ND		12/29/95

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0524659		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-5		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRALS AND ACIDS				8270	
3,3-Dichlorobenzidine	ug/L	20	ND		12/29/95
Benz[a]anthracene	ug/L	10	ND		12/29/95
Chrysene	ug/L	10	ND		12/29/95
bis(2-Ethylhexyl)phthalate	ug/L	10	ND		12/29/95
Di-n-octylphthalate	ug/L	10	ND		12/29/95
Benzo[b]fluoranthene	ug/L	10	ND		12/29/95
Benzo[k]fluoranthene	ug/L	10	ND		12/29/95
Benzo[a]pyrene	ug/L	10	ND		12/29/95
Indeno[1,2,3,-cd]pyrene	ug/L	10	ND		12/29/95
Dibenz[a,h]anthracene	ug/L	10	ND		12/29/95
Benzo[g,h,i]perylene	ug/L	10	ND		12/29/95
Surrogate - 2-Fluorophenol	%		14 (5)		12/29/95
Surrogate - Phenol-d6	%		10		12/29/95
Surrogate - Nitrobenzene-d5	%		64		12/29/95
Surrogate - 2-Fluorobiphenyl	%		59		12/29/95
Surrogate - 2,4,6-Tribromophenol	%		27 (6)		12/29/95
Surrogate - Terphenyl-d14	%		64		12/29/95
Date Extracted, Base/Neutrals and Acids	Date		122295		12/22/95
PESTICIDES				8080	
alpha-BHC	ug/L	0.05	ND		01/03/96
beta-BHC	ug/L	0.05	ND		01/03/96
gamma-BHC (Lindane)	ug/L	0.05	ND		01/03/96
delta-BHC	ug/L	0.1	ND		01/03/96
Heptachlor	ug/L	0.05	ND		01/03/96
Aldrin	ug/L	0.05	ND		01/03/96
Heptachlor epoxide	ug/L	0.8	ND		01/03/96
Endosulfan I	ug/L	0.1	ND		01/03/96
Dieldrin	ug/L	0.02	ND		01/03/96
Endrin	ug/L	0.06	ND		01/03/96
4,4-DDD	ug/L	0.1	ND		01/03/96
Endosulfan II	ug/L	0.1	ND		01/03/96
4,4-DDT	ug/L	0.1	ND		01/03/96

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PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0524659		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-5		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PESTICIDES				8080	
4,4-DDE	ug/L	0.1	ND		01/03/96
Endrin aldehyde	ug/L	0.2	ND		01/03/96
Endosulfan sulfate	ug/L	0.7	ND		01/03/96
Toxaphene	ug/L	2.4	ND		01/03/96
Chlordane (tech)	ug/L	0.2	ND		01/03/96
Methoxychlor	ug/L	1.0	ND		01/03/96
Date Extracted, Pesticides	Date		122795		12/27/95

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Client Reference: Third Creek

PACE Sample Number:			92 0525710		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-6		
Parameter	Units	MDL		METHOD	DATE ANALYZED
SUBCONTRACT ANALYSIS					
INDIVIDUAL PARAMETERS					
Gross Alpha	pCi/L		1.4	900.0	12/28/95
Gross Beta	pCi/L		2.8	900.0	12/28/95
Radium 226	pCi/L		0.5	903.1	01/03/96
Radium 228	pCi/L		1.0 (7)	903.1	01/03/96
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	12/30/95
Barium	mg/L	0.02	0.17	200.7	01/01/96
Cadmium	mg/L	0.010	ND	200.7	01/01/96
Chloride	mg/L	1	2.2	407B	01/02/96
Chromium	mg/L	0.010	ND	200.7	01/01/96
Fluoride, Total	mg/L	0.1	ND	340.2	12/27/95
Iron	mg/L	0.10	0.65	200.7	01/01/96
Lead	mg/L	0.005	ND	239.2	01/03/96
Manganese	mg/L	0.010	0.07	200.7	01/01/96
Mercury	mg/L	0.0002	ND	245.1	01/04/96
Nitrogen, Nitrate	mg/L	0.5	2.1	418C	01/09/96
Phenol, Low Level	mg/L	0.005	ND	510A	01/04/96
Selenium	mg/L	0.005	ND	270.2	12/30/95
Silver	mg/L	0.005	ND	200.7	01/01/96
Sodium	mg/L	1.0	6.8	200.7	01/01/96
Sulfate	mg/L	1	ND	375.4	01/04/96
Total Organic Carbon	mg/L	0.5	2.4	9060	01/04/96
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Chloromethane	ug/L	10	ND		01/04/96
Chloroethene (Vinyl chloride)	ug/L	10	ND		01/04/96
Bromomethane	ug/L	10	ND		01/04/96
Chloroethane	ug/L	10	ND		01/04/96
1,1-Dichloroethene	ug/L	5.0	ND		01/04/96

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Client Reference: Third Creek

PACE Sample Number:			92 0525710		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-6		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Acetone	ug/L	10	ND		01/04/96
Carbon disulfide	ug/L	5.0	ND		01/04/96
Dichloromethane	ug/L	5.0	ND		01/04/96
trans-1,2-Dichloroethene	ug/L	5.0	ND		01/04/96
1,1-Dichloroethane	ug/L	5.0	ND		01/04/96
Vinyl acetate	ug/L	10	ND		01/04/96
Chloroform	ug/L	5.0	ND		01/04/96
1,2-Dichloroethane	ug/L	5.0	ND		01/04/96
2-Butanone (MEK)	ug/L	10	ND		01/04/96
1,1,1-Trichloroethane	ug/L	5.0	ND		01/04/96
Carbon tetrachloride	ug/L	5.0	ND		01/04/96
Benzene	ug/L	5.0	ND		01/04/96
Trichloroethene	ug/L	5.0	ND		01/04/96
1,2-Dichloropropane	ug/L	5.0	ND		01/04/96
Bromodichloromethane	ug/L	5.0	ND		01/04/96
cis-1,3-Dichloropropene	ug/L	5.0	ND		01/04/96
trans-1,3-Dichloropropene	ug/L	5.0	ND		01/04/96
1,1,2-Trichloroethane	ug/L	5.0	ND		01/04/96
Dibromochloromethane	ug/L	5.0	ND		01/04/96
Bromoform	ug/L	5.0	ND		01/04/96
4-Methyl-2-pentanone (MIBK)	ug/L	10	ND		01/04/96
Toluene	ug/L	5.0	ND		01/04/96
Tetrachloroethene	ug/L	5.0	ND		01/04/96
2-Hexanone	ug/L	10	ND		01/04/96
Chlorobenzene	ug/L	5.0	ND		01/04/96
Ethylbenzene	ug/L	5.0	ND		01/04/96
Xylenes, Total	ug/L	5.0	ND		01/04/96
Styrene	ug/L	5.0	ND		01/04/96
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		01/04/96
Surrogate - 1,2-Dichloroethane-d4	%		93		01/04/96
Surrogate - Toluene-d8	%		98		01/04/96

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Ms. Susan Kite
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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0525710		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-6		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
VOLATILE ORGANICS				8240	
Surrogate - Bromofluorobenzene	%		90		01/04/96
HERBICIDES, SELECTED CHLORINATED			(8)	8150	
2,4-D	ug/L	12	ND		12/29/95
2,4,5-T	ug/L	2.0	ND		12/29/95
Silvex	ug/L	2.0	ND		12/29/95
Date Extracted	Date		122695		12/26/95
BASE/NEUTRALS AND ACIDS				8270	
bis(2-Chloroethyl)ether	ug/L	10	ND		12/29/95
Phenol	ug/L	10	ND		12/29/95
2-Chlorophenol	ug/L	10	ND		12/29/95
1,3-Dichlorobenzene	ug/L	10	ND		12/29/95
1,4-Dichlorobenzene	ug/L	10	ND		12/29/95
1,2-Dichlorobenzene	ug/L	10	ND		12/29/95
Benzyl alcohol	ug/L	20	ND		12/29/95
bis(2-Chloroisopropyl)ether	ug/L	10	ND		12/29/95
2-Methylphenol	ug/L	10	ND		12/29/95
Hexachloroethane	ug/L	10	ND		12/29/95
n-Nitrosodi-n-propylamine	ug/L	10	ND		12/29/95
4-Methylphenol	ug/L	10	ND		12/29/95
Nitrobenzene	ug/L	10	ND		12/29/95
3,5,5-Trimethyl-2-cyclohexanone	ug/L	10	ND		12/29/95
2-Nitrophenol	ug/L	10	ND		12/29/95
2,4-Dimethylphenol	ug/L	10	ND		12/29/95
bis(2-Chloroethoxy)methane	ug/L	10	ND		12/29/95
Benzoic acid	ug/L	50	ND		12/29/95
2,4-Dichlorophenol	ug/L	10	ND		12/29/95
1,2,4-Trichlorobenzene	ug/L	10	ND		12/29/95
Naphthalene	ug/L	10	ND		12/29/95
4-Chloroaniline	ug/L	20	ND		12/29/95
Hexachlorobutadiene	ug/L	10	ND		12/29/95
4-Chloro-3-methylphenol	ug/L	20	ND		12/29/95

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0525710		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-6		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRALS AND ACIDS				8270	
2-Methylnaphthalene	ug/L	10	ND		12/29/95
Hexachlorocyclopentadiene	ug/L	10	ND		12/29/95
2,4,6-Trichlorophenol	ug/L	10	ND		12/29/95
2,4,5-Trichlorophenol	ug/L	10	ND		12/29/95
2-Chloronaphthalene	ug/L	10	ND		12/29/95
2-Nitroaniline	ug/L	50	ND		12/29/95
Acenaphthylene	ug/L	10	ND		12/29/95
Dimethyl phthalate	ug/L	10	ND		12/29/95
2,6-Dinitrotoluene	ug/L	10	ND		12/29/95
Acenaphthene	ug/L	10	ND		12/29/95
3-Nitroaniline	ug/L	50	ND		12/29/95
2,4-Dinitrophenol	ug/L	50	ND		12/29/95
Dibenzofuran	ug/L	10	ND		12/29/95
2,4-Dinitrotoluene	ug/L	10	ND		12/29/95
4-Nitrophenol	ug/L	50	ND		12/29/95
Fluorene	ug/L	10	ND		12/29/95
4-Chlorophenyl phenyl ether	ug/L	10	ND		12/29/95
Diethyl phthalate	ug/L	10	ND		12/29/95
4-Nitroaniline	ug/L	50	ND		12/29/95
2-Methyl-4,6-dinitrophenol	ug/L	50	ND		12/29/95
N-Nitrosodiphenylamine	ug/L	10	ND		12/29/95
4-Bromophenyl phenyl ether	ug/L	10	ND		12/29/95
Hexachlorobenzene	ug/L	10	ND		12/29/95
Pentachlorophenol	ug/L	50	ND		12/29/95
Phenanthrene	ug/L	10	ND		12/29/95
Anthracene	ug/L	10	ND		12/29/95
Di-n-butyl phthalate	ug/L	10	ND		12/29/95
Fluoranthene	ug/L	10	ND		12/29/95
Pyrene	ug/L	10	ND		12/29/95
Benzyl butyl phthalate	ug/L	10	ND		12/29/95
3,3-Dichlorobenzidine	ug/L	20	ND		12/29/95

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0525710		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-6		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRALS AND ACIDS				8270	
Benz[a]anthracene	ug/L	10	ND		12/29/95
Chrysene	ug/L	10	ND		12/29/95
bis(2-Ethylhexyl)phthalate	ug/L	10	ND		12/29/95
Di-n-octylphthalate	ug/L	10	ND		12/29/95
Benzo[b]fluoranthene	ug/L	10	ND		12/29/95
Benzo[k]fluoranthene	ug/L	10	ND		12/29/95
Benzo[a]pyrene	ug/L	10	ND		12/29/95
Indeno[1,2,3,-cd]pyrene	ug/L	10	ND		12/29/95
Dibenz[a,h]anthracene	ug/L	10	ND		12/29/95
Benzo[g,h,i]perylene	ug/L	10	ND		12/29/95
Surrogate - 2-Fluorophenol	%		41		12/29/95
Surrogate - Phenol-d6	%		32		12/29/95
Surrogate - Nitrobenzene-d5	%		62		12/29/95
Surrogate - 2-Fluorobiphenyl	%		61		12/29/95
Surrogate - 2,4,6-Tribromophenol	%		61		12/29/95
Surrogate - Terphenyl-d14	%		80		12/29/95
Date Extracted, Base/Neutrals and Acids	Date		122295		12/22/95
PESTICIDES				8080	
alpha-BHC	ug/L	0.05	ND		01/03/96
beta-BHC	ug/L	0.05	ND		01/03/96
gamma-BHC (Lindane)	ug/L	0.05	ND		01/03/96
delta-BHC	ug/L	0.1	ND		01/03/96
Heptachlor	ug/L	0.05	ND		01/03/96
Aldrin	ug/L	0.05	ND		01/03/96
Heptachlor epoxide	ug/L	0.8	ND		01/03/96
Endosulfan I	ug/L	0.1	ND		01/03/96
Dieldrin	ug/L	0.02	ND		01/03/96
Endrin	ug/L	0.06	ND		01/03/96
4,4-DDD	ug/L	0.1	ND		01/03/96
Endosulfan II	ug/L	0.1	ND		01/03/96
4,4-DDT	ug/L	0.1	ND		01/03/96

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0525710		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-6		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PESTICIDES				8080	
4,4-DDE	ug/L	0.1	ND		01/03/96
Endrin aldehyde	ug/L	0.2	ND		01/03/96
Endosulfan sulfate	ug/L	0.7	ND		01/03/96
Toxaphene	ug/L	2.4	ND		01/03/96
Chlordane (tech)	ug/L	0.2	ND		01/03/96
Methoxychlor	ug/L	1.0	ND		01/03/96
Date Extracted, Pesticides	Date		122795		12/27/95

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0525728		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-7		
Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Total Organic Halides	ug/L	5.0	19 (9)	9020	12/27/95

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0525736		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-8		
Parameter	Units	MDL	Dup-2	METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Total Organic Halides	ug/L	5.0	ND	9020	12/27/95

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January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PACE Sample Number:			92 0525744		
Date Collected:			12/21/95		
Date Received:			12/21/95		
Client Sample ID:			MW-8		
Parameter	Units	MDL	Dup-3	METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Total Organic Halides	ug/L	5.0	ND	9020	12/27/95

These data have been reviewed and are approved for release.

Dan H. Jones
Inorganic Department

Margaret S. Harding
Manager, Organic Chemistry

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Client Reference: Third Creek

MDL Method Detection Limit
ND Not detected at or above the MDL.
(1) Sample was reectracted outside the holding time due to low spike recoveries in the associated LCS and LCSD. Recoveries were acceptable for the reextracted LCS and LCSD. Both sample analyses were non-detected for all target compounds.
(2) Sample was reextracted outside the holding time due to low spike recoveries in the associated LCS and LCSD. Recoveries were acceptable for the reextracted LCS and LCSD. Both sample analyses were non-detected for all target compounds.
(3) The compound was analyzed, but not detected. The numerical value is the limit of detection for that compound, based upon the dilution (and moisture content if soil/sediment).
(4) Low spike recoveries in associated LCS and LCSD. Additional sample unavailable to perform a reextraction.
(5) Surrogate recovery outside QC limits. However, recovery was acceptable upon reextraction. Both the original and reextracted analyses were non-detected for all 8270 compounds.
(6) Surrogate recovery outside QC limits. However, recovery was acceptable upon reextraction. Both the original and reextracted analyses were non-detected for all 8270 compounds.
(7) The compound was analyzed, but not detected. The numerical value is the limit of detection for that compound, based upon the dilution (moisture content if soil/sediment).
(8) Sample was reextracted outside the holding time due to low spike recoveries in the associated LCS and LCSD. Recoveries were acceptable for the reextracted LCS and LCSD. Both sample analyses were non-detected for all target compounds.
(9) The duplicate analysis for TOX produced a results of 32 ug/L, but there was insufficient sample for re-analysis to confirm either number.

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Arsenic
Batch: 92 42613
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Arsenic	mg/L	0.005	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920524659 MW-5	Spike	Spike Recv	Spike Dupl Recv	RPD
Arsenic	mg/L	0.005	ND	0.040	78%	90%	14%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Arsenic	mg/L	0.005	0.040	93%	95%	2%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Lead
Batch: 92 42621
Samples: 92 0524659

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Lead	mg/L	0.005	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Lead	mg/L	0.005	0.020	100%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Lead
Batch: 92 42622
Samples: 92 0522745, 92 0522753, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Lead	mg/L	0.005	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Lead	mg/L	0.005	0.020	100%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Mercury
Batch: 92 42635
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Mercury	mg/L	0.0002	ND

SPIKE:

Parameter	Units	MDL	920522494	Spike	Spike Recv
Mercury	mg/L	0.0002	ND	0.0050	112%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Mercury	mg/L	0.0002	0.0050	112%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Selenium
Batch: 92 42614
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Selenium	mg/L	0.005	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920524659 MW-5	Spike	Spike Recv	Spike Dupl Recv	RPD
Selenium	mg/L	0.005	ND	0.040	90%	83%	8%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Selenium	mg/L	0.005	0.040	100%	98%	2%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

ICP QUALITY CONTROL
Batch: 92 42602
Samples: 92 0522745, 92 0522753

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Nickel	mg/L	0.05	ND
Cadmium	mg/L	0.010	ND
Vanadium	mg/L	0.010	ND
Lead	mg/L	0.10	ND
Barium	mg/L	0.02	ND
Copper	mg/L	0.010	ND
Chromium	mg/L	0.010	ND
Beryllium	mg/L	0.010	ND
Zinc	mg/L	0.05	ND
Cobalt	mg/L	0.010	ND
Iron	mg/L	0.10	ND
Silver	mg/L	0.005	ND
Manganese	mg/L	0.010	ND
Aluminum	mg/L	0.05	ND
Calcium	mg/L	1.0	ND
Sodium	mg/L	1.0	ND
Potassium	mg/L	1.0	ND
Magnesium	mg/L	1.0	ND
Molybdenum	mg/L	0.05	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920522745 MW-8	Spike	Spike Recv	Spike Dupl Recv	RPD
Nickel	mg/L	0.05	ND	2.0	100%	100%	0%
Cadmium	mg/L	0.010	ND	2.0	93%	94%	1%
Vanadium	mg/L	0.010	0.066	2.0	102%	103%	1%
Lead	mg/L	0.10	ND	2.0	105%	105%	0%
Barium	mg/L	0.02	0.74	2.0	133%	135%	1%
Copper	mg/L	0.010	0.016	2.0	99%	99%	0%
Chromium	mg/L	0.010	0.017	2.0	101%	101%	0%
Beryllium	mg/L	0.010	ND	2.0	97%	97%	0%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

ICP QUALITY CONTROL
Batch: 92 42602
Samples: 92 0522745, 92 0522753

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920522745 MW-8	Spike	Spike Recv	Spike Dupl Recv	RPD
Zinc	mg/L	0.05	0.130	2.0	98%	98%	0%
Cobalt	mg/L	0.010	0.016	2.0	99%	100%	1%
Iron	mg/L	0.10	27.0	2.0	600%	500%	18%
Manganese	mg/L	0.010	1.26	2.0	102%	98%	4%
Aluminum	mg/L	0.05	25.0				
Molybdenum	mg/L	0.05	ND	2.0	91%	91%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Nickel	mg/L	0.05	2.0	105%	105%	0%
Cadmium	mg/L	0.010	2.0	98%	99%	1%
Vanadium	mg/L	0.010	2.0	107%	108%	1%
Lead	mg/L	0.10	2.0	105%	105%	0%
Barium	mg/L	0.02	2.0	103%	104%	1%
Copper	mg/L	0.010	2.0	104%	105%	1%
Chromium	mg/L	0.010	2.0	106%	107%	1%
Beryllium	mg/L	0.010	2.0	103%	103%	0%
Zinc	mg/L	0.05	2.0	102%	103%	1%
Cobalt	mg/L	0.010	2.0	105%	106%	1%
Iron	mg/L	0.10	2.0	105%	100%	5%
Silver	mg/L	0.005	1.0	99%	107%	8%
Manganese	mg/L	0.010	2.0	102%	103%	1%
Aluminum	mg/L	0.05	2.0	110%	105%	5%
Calcium	mg/L	1.0	7.0	107%	106%	1%
Sodium	mg/L	1.0	7.0	103%	103%	0%
Potassium	mg/L	1.0	25	104%	104%	0%
Magnesium	mg/L	1.0	7.0	100%	101%	1%
Molybdenum	mg/L	0.05	2.0	100%	102%	2%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

ICP QUALITY CONTROL
Batch: 92 42648
Samples: 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Nickel	mg/L	0.05	ND
Cadmium	mg/L	0.010	ND
Vanadium	mg/L	0.010	ND
Lead	mg/L	0.10	ND
Barium	mg/L	0.02	ND
Copper	mg/L	0.010	ND
Chromium	mg/L	0.010	ND
Beryllium	mg/L	0.010	ND
Zinc	mg/L	0.05	ND
Cobalt	mg/L	0.010	ND
Iron	mg/L	0.10	ND
Silver	mg/L	0.005	ND
Manganese	mg/L	0.010	ND
Aluminum	mg/L	0.05	ND
Calcium	mg/L	1.0	ND
Sodium	mg/L	1.0	ND
Potassium	mg/L	1.0	ND
Magnesium	mg/L	1.0	ND
Molybdenum	mg/L	0.05	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920525710 MW-6	Spike	Spike Recv	Spike Dupl Recv	RPD
Nickel	mg/L	0.05	ND	2.0	100%	100%	0%
Cadmium	mg/L	0.010	ND	2.0	99%	96%	3%
Vanadium	mg/L	0.010	ND	2.0	103%	100%	3%
Lead	mg/L	0.10	ND	2.0	100%	95%	5%
Barium	mg/L	0.02	0.17	2.0	102%	100%	2%
Copper	mg/L	0.010	0.203	2.0	101%	99%	2%
Chromium	mg/L	0.010	ND	2.0	100%	98%	2%
Beryllium	mg/L	0.010	ND	2.0	101%	98%	3%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

ICP QUALITY CONTROL
Batch: 92 42648
Samples: 92 0525710

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920525710 MW-6	Spike	Spike Recv	Spike Dupl Recv	RPD
Zinc	mg/L	0.05	0.08	2.0	100%	97%	3%
Cobalt	mg/L	0.010	ND	2.0	101%	99%	2%
Iron	mg/L	0.10	0.65	2.0	128%	128%	0%
Manganese	mg/L	0.010	0.07	2.0	101%	98%	3%
Aluminum	mg/L	0.05	0.55	2.0	223%	213%	5%
Molybdenum	mg/L	0.05	ND	2.0	98%	96%	2%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Nickel	mg/L	0.05	2.0	100%	100%	0%
Cadmium	mg/L	0.010	2.0	98%	98%	0%
Vanadium	mg/L	0.010	2.0	101%	102%	1%
Lead	mg/L	0.10	2.0	100%	100%	0%
Barium	mg/L	0.02	2.0	101%	101%	0%
Copper	mg/L	0.010	2.0	100%	100%	0%
Chromium	mg/L	0.010	2.0	100%	100%	0%
Beryllium	mg/L	0.010	2.0	99%	99%	0%
Zinc	mg/L	0.05	2.0	99%	99%	0%
Cobalt	mg/L	0.010	2.0	101%	101%	0%
Iron	mg/L	0.10	2.0	105%	100%	5%
Silver	mg/L	0.005	1.0	95%	96%	1%
Manganese	mg/L	0.010	2.0	100%	100%	0%
Aluminum	mg/L	0.05	2.0	105%	105%	0%
Calcium	mg/L	1.0	7.0	101%	103%	2%
Sodium	mg/L	1.0	7.0	100%	101%	1%
Potassium	mg/L	1.0	25.0	100%	100%	0%
Magnesium	mg/L	1.0	7.0	100%	100%	0%
Molybdenum	mg/L	0.05	2.0	98%	97%	1%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

ICP QUALITY CONTROL
Batch: 92 42786
Samples: 92 0524659

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Nickel	mg/L	0.05	ND
Cadmium	mg/L	0.010	ND
Vanadium	mg/L	0.010	ND
Lead	mg/L	0.10	ND
Barium	mg/L	0.02	ND
Copper	mg/L	0.010	ND
Chromium	mg/L	0.010	ND
Beryllium	mg/L	0.010	ND
Zinc	mg/L	0.05	ND
Cobalt	mg/L	0.010	ND
Iron	mg/L	0.10	ND
Silver	mg/L	0.005	ND
Manganese	mg/L	0.010	ND
Aluminum	mg/L	0.05	ND
Calcium	mg/L	1.0	ND
Sodium	mg/L	1.0	ND
Potassium	mg/L	1.0	ND
Magnesium	mg/L	1.0	ND
Molybdenum	mg/L	0.05	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920526376	Spike	Spike Recv	Spike Dupl Recv	RPD
Nickel	mg/L	0.05	0.05	2.0	83%	93%	11%
Cadmium	mg/L	0.010	ND	2.0	80%	95%	17%
Vanadium	mg/L	0.010	ND	2.0	90%	102%	13%
Lead	mg/L	0.10	ND	2.0	80%	90%	12%
Barium	mg/L	0.02	0.06	2.0	87%	101%	15%
Copper	mg/L	0.010	0.013	2.0	84%	97%	14%
Chromium	mg/L	0.010	ND	2.0	85%	95%	11%
Beryllium	mg/L	0.010	ND	2.0	85%	97%	13%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

ICP QUALITY CONTROL
Batch: 92 42786
Samples: 92 0524659

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920526376	Spike	Spike Recv	Spike Dupl Recv	RPD
Zinc	mg/L	0.05	ND	2.0	90%	99%	10%
Cobalt	mg/L	0.010	ND	2.0	85%	95%	11%
Iron	mg/L	0.10	3.1	2.0	105%		
Manganese	mg/L	0.010	3.13	2.0	89%	104%	16%
Aluminum	mg/L	0.05	1.8				
Molybdenum	mg/L	0.05	ND	2.0	85%	95%	11%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Nickel	mg/L	0.05	2.0	100%	110%	10%
Cadmium	mg/L	0.010	2.0	101%	110%	9%
Vanadium	mg/L	0.010	2.0	104%	112%	7%
Lead	mg/L	0.10	2.0	100%	110%	10%
Barium	mg/L	0.02	2.0	102%	110%	8%
Copper	mg/L	0.010	2.0	102%	110%	8%
Chromium	mg/L	0.010	2.0	101%	110%	9%
Beryllium	mg/L	0.010	2.0	101%	109%	8%
Zinc	mg/L	0.05	2.0	100%	108%	8%
Cobalt	mg/L	0.010	2.0	103%	111%	7%
Iron	mg/L	0.10	2.0	100%	110%	10%
Silver	mg/L	0.005	1.0	95%	104%	9%
Manganese	mg/L	0.010	2.0	102%	110%	8%
Aluminum	mg/L	0.05	2.0	105%	115%	9%
Calcium	mg/L	1.0	7.0	104%	110%	6%
Sodium	mg/L	1.0	7.0	114%	111%	3%
Potassium	mg/L	1.0	25	100%	108%	8%
Magnesium	mg/L	1.0	7.0	100%	109%	9%
Molybdenum	mg/L	0.05	2.0	100%	107%	7%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

BASE/NEUTRALS AND ACIDS
Batch: 92 42565
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
bis(2-Chloroethyl)ether	ug/L	10	ND
Phenol	ug/L	10	ND
2-Chlorophenol	ug/L	10	ND
1,3-Dichlorobenzene	ug/L	10	ND
1,4-Dichlorobenzene	ug/L	10	ND
1,2-Dichlorobenzene	ug/L	10	ND
Benzyl alcohol	ug/L	20	ND
bis(2-Chloroisopropyl)ether	ug/L	10	ND
2-Methylphenol	ug/L	10	ND
Hexachloroethane	ug/L	10	ND
n-Nitrosodi-n-propylamine	ug/L	10	ND
4-Methylphenol	ug/L	10	ND
Nitrobenzene	ug/L	10	ND
3,5,5-Trimethyl-2-cyclohexanone	ug/L	10	ND
2-Nitrophenol	ug/L	10	ND
2,4-Dimethylphenol	ug/L	10	ND
bis(2-Chloroethoxy)methane	ug/L	10	ND
Benzoic acid	ug/L	50	ND
2,4-Dichlorophenol	ug/L	10	ND
1,2,4-Trichlorobenzene	ug/L	10	ND
Naphthalene	ug/L	10	ND
4-Chloroaniline	ug/L	20	ND
Hexachlorobutadiene	ug/L	10	ND
4-Chloro-3-methylphenol	ug/L	20	ND
2-Methylnaphthalene	ug/L	10	ND
Hexachlorocyclopentadiene	ug/L	10	ND
2,4,6-Trichlorophenol	ug/L	10	ND
2,4,5-Trichlorophenol	ug/L	10	ND
2-Chloronaphthalene	ug/L	10	ND
2-Nitroaniline	ug/L	50	ND
Acenaphthylene	ug/L	10	ND
Dimethyl phthalate	ug/L	10	ND

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

BASE/NEUTRALS AND ACIDS
Batch: 92 42565
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
2,6-Dinitrotoluene	ug/L	10	ND
Acenaphthene	ug/L	10	ND
3-Nitroaniline	ug/L	50	ND
2,4-Dinitrophenol	ug/L	50	ND
Dibenzofuran	ug/L	10	ND
2,4-Dinitrotoluene	ug/L	10	ND
4-Nitrophenol	ug/L	50	ND
Fluorene	ug/L	10	ND
4-Chlorophenyl phenyl ether	ug/L	10	ND
Diethyl phthalate	ug/L	10	ND
4-Nitroaniline	ug/L	50	ND
2-Methyl-4,6-dinitrophenol	ug/L	50	ND
N-Nitrosodiphenylamine	ug/L	10	ND
4-Bromophenyl phenyl ether	ug/L	10	ND
Hexachlorobenzene	ug/L	10	ND
Pentachlorophenol	ug/L	50	ND
Phenanthrene	ug/L	10	ND
Anthracene	ug/L	10	ND
Di-n-butyl phthalate	ug/L	10	ND
Fluoranthene	ug/L	10	ND
Pyrene	ug/L	10	ND
Benzyl butyl phthalate	ug/L	10	ND
3,3-Dichlorobenzidine	ug/L	20	ND
Benz[a]anthracene	ug/L	10	ND
Chrysene	ug/L	10	ND
bis(2-Ethylhexyl)phthalate	ug/L	10	ND
Di-n-octylphthalate	ug/L	10	ND
Benzo[b]fluoranthene	ug/L	10	ND
Benzo[k]fluoranthene	ug/L	10	ND
Benzo[a]pyrene	ug/L	10	ND
Indeno[1,2,3,-cd]pyrene	ug/L	10	ND
Dibenz[a,h]anthracene	ug/L	10	ND

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

BASE/NEUTRALS AND ACIDS
Batch: 92 42565
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Benzo[g,h,i]perylene	ug/L	10	ND
Surrogate - 2-Fluorophenol	%		41
Surrogate - Phenol-d6	%		33
Surrogate - Nitrobenzene-d5	%		71
Surrogate - 2-Fluorobiphenyl	%		68
Surrogate - 2,4,6-Tribromophenol	%		64
Surrogate - Terphenyl-d14	%		82

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
bis(2-Chloroethyl)ether	ug/L	10	50	66%	66%	0%
Phenol	ug/L	10	50	30%	30%	0%
2-Chlorophenol	ug/L	10	50	58%	58%	0%
1,3-Dichlorobenzene	ug/L	10	50	40%	40%	0%
1,4-Dichlorobenzene	ug/L	10	50	42%	42%	0%
1,2-Dichlorobenzene	ug/L	10	50	42%	42%	0%
Benzyl alcohol	ug/L	20	50	70%	68%	3%
bis(2-Chloroisopropyl)ether	ug/L	10	50	64%	64%	0%
2-Methylphenol	ug/L	10	50	54%	54%	0%
Hexachloroethane	ug/L	10	50	38%	34%	11%
					R1	
n-Nitrosodi-n-propylamine	ug/L	10	50	76%	78%	3%
4-Methylphenol	ug/L	10	50	52%	52%	0%
Nitrobenzene	ug/L	10	50	70%	72%	3%
3,5,5-Trimethyl-2-cyclohexanone	ug/L	10	50	74%	78%	5%
2-Nitrophenol	ug/L	10	50	60%	60%	0%
2,4-Dimethylphenol	ug/L	10	50	70%	70%	0%
bis(2-Chloroethoxy)methane	ug/L	10	50	74%	78%	5%
Benzoic acid	ug/L	50	50	6%	14%	80%
2,4-Dichlorophenol	ug/L	10	50	70%	70%	0%
1,2,4-Trichlorobenzene	ug/L	10	50	46%	46%	0%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

BASE/NEUTRALS AND ACIDS
Batch: 92 42565
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Naphthalene	ug/L	10	50	58%	60%	3%
4-Chloroaniline	ug/L	20	50	66%	66%	0%
Hexachlorobutadiene	ug/L	10	50	40%	36%	11%
4-Chloro-3-methylphenol	ug/L	20	50	68%	70%	3%
2-Methylnaphthalene	ug/L	10	50	58%	62%	7%
Hexachlorocyclopentadiene	ug/L	10	50	24%	19%	23%
2,4,6-Trichlorophenol	ug/L	10	50	84%	84%	0%
2,4,5-Trichlorophenol	ug/L	10	50	72%	74%	3%
2-Chloronaphthalene	ug/L	10	50	58%	58%	0%
					R1	
2-Nitroaniline	ug/L	50	50	82%	86%	5%
Acenaphthylene	ug/L	10	50	64%	66%	3%
Dimethyl phthalate	ug/L	10	50	16%	12%	29%
2,6-Dinitrotoluene	ug/L	10	50	86%	92%	7%
Acenaphthene	ug/L	10	50	60%	62%	3%
3-Nitroaniline	ug/L	50	50	78%	80%	3%
2,4-Dinitrophenol	ug/L	50	50	66%	72%	9%
Dibenzofuran	ug/L	10	50	62%	66%	6%
2,4-Dinitrotoluene	ug/L	10	50	82%	92%	11%
4-Nitrophenol	ug/L	50	50	30%	32%	6%
Fluorene	ug/L	10	50	66%	72%	9%
4-Chlorophenyl phenyl ether	ug/L	10	50	60%	64%	6%
Diethyl phthalate	ug/L	10	50	46%	42%	9%
4-Nitroaniline	ug/L	50	50	76%	86%	12%
2-Methyl-4,6-dinitrophenol	ug/L	50	50	94%	98%	4%
N-Nitrosodiphenylamine	ug/L	10	50	90%	90%	0%
4-Bromophenyl phenyl ether	ug/L	10	50	68%	70%	3%
Hexachlorobenzene	ug/L	10	50	76%	76%	0%
Pentachlorophenol	ug/L	50	50	140%	144%	3%
Phenanthrene	ug/L	10	50	76%	78%	3%
Anthracene	ug/L	10	50	80%	82%	2%
Di-n-butyl phthalate	ug/L	10	50	70%	72%	3%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

BASE/NEUTRALS AND ACIDS
Batch: 92 42565
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Fluoranthene	ug/L	10	50	78%	92%	16%
Pyrene	ug/L	10	50	96%	90%	6%
Benzyl butyl phthalate	ug/L	10	50	66%	60%	10%
3,3-Dichlorobenzidine	ug/L	20	50	80%	82%	2%
Benz[a]anthracene	ug/L	10	50	84%	88%	5%
Chrysene	ug/L	10	50	88%	90%	2%
bis(2-Ethylhexyl)phthalate	ug/L	10	50	76%	72%	5%
Di-n-octylphthalate	ug/L	10	50	94%	76%	21%
Benzo[b]fluoranthene	ug/L	10	50	82%	88%	7%
Benzo[k]fluoranthene	ug/L	10	50	82%	82%	0%
Benzo[a]pyrene	ug/L	10	50	78%	80%	3%
Indeno[1,2,3,-cd]pyrene	ug/L	10	50	74%	76%	3%
Dibenz[a,h]anthracene	ug/L	10	50	74%	76%	3%
Benzo[g,h,i]perylene	ug/L	10	50	70%	72%	3%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

HERBICIDES, SELECTED CHLORINATED
Batch: 92 42802
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
2,4-D	ug/L	12	ND
2,4,5-T	ug/L	2.0	ND
Silvex	ug/L	2.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
2,4-D	ug/L	12	5.0	68%	88%	26%
2,4,5-T	ug/L	2.0	5.0	66%	88%	29%
Silvex	ug/L	2.0	5.0	72%	84%	15%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PESTICIDES
Batch: 92 42455
Samples: 92 0522745, 92 0522753

METHOD BLANK:

Parameter	Units	MDL	Method Blank
alpha-BHC	ug/L	0.05	ND
beta-BHC	ug/L	0.05	ND
gamma-BHC (Lindane)	ug/L	0.05	ND
delta-BHC	ug/L	0.1	ND
Heptachlor	ug/L	0.05	ND
Aldrin	ug/L	0.05	ND
Heptachlor epoxide	ug/L	0.8	ND
Endosulfan I	ug/L	0.1	ND
Dieldrin	ug/L	0.02	ND
Endrin	ug/L	0.06	ND
4,4-DDD	ug/L	0.1	ND
Endosulfan II	ug/L	0.1	ND
4,4-DDT	ug/L	0.1	ND
4,4-DDE	ug/L	0.1	ND
Endrin aldehyde	ug/L	0.2	ND
Endosulfan sulfate	ug/L	0.7	ND
Toxaphene	ug/L	2.4	ND
Chlordane (tech)	ug/L	0.2	ND
Methoxychlor	ug/L	1.0	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
alpha-BHC	ug/L	0.05	0.160	86%
beta-BHC	ug/L	0.05	0.160	86%
gamma-BHC (Lindane)	ug/L	0.05	0.160	89%
delta-BHC	ug/L	0.1	0.160	106%
Heptachlor	ug/L	0.05	0.160	73%
Aldrin	ug/L	0.05	0.160	76%
Heptachlor epoxide	ug/L	0.8	0.160	88%
Endosulfan I	ug/L	0.1	0.160	58%
Dieldrin	ug/L	0.02	0.160	108%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PESTICIDES
Batch: 92 42455
Samples: 92 0522745, 92 0522753

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Endrin	ug/L	0.06	0.160	111%
4,4-DDD	ug/L	0.1	0.160	116%
Endosulfan II	ug/L	0.1	0.160	72%
4,4-DDT	ug/L	0.1	0.160	108%
4,4-DDE	ug/L	0.1	0.160	106%
Endrin aldehyde	ug/L	0.2	0.160	101%
Endosulfan sulfate	ug/L	0.7	0.160	126%
Methoxychlor	ug/L	1.0	0.400	82%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PESTICIDES
Batch: 92 42678
Samples: 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
alpha-BHC	ug/L	0.05	ND
beta-BHC	ug/L	0.05	ND
gamma-BHC (Lindane)	ug/L	0.05	ND
delta-BHC	ug/L	0.1	ND
Heptachlor	ug/L	0.05	ND
Aldrin	ug/L	0.05	ND
Heptachlor epoxide	ug/L	0.8	ND
Endosulfan I	ug/L	0.1	ND
Dieldrin	ug/L	0.02	ND
Endrin	ug/L	0.06	ND
4,4-DDD	ug/L	0.1	ND
Endosulfan II	ug/L	0.1	ND
4,4-DDT	ug/L	0.1	ND
4,4-DDE	ug/L	0.1	ND
Endrin aldehyde	ug/L	0.2	ND
Endosulfan sulfate	ug/L	0.7	ND
Toxaphene	ug/L	2.4	ND
Chlordane (tech)	ug/L	0.2	ND
Methoxychlor	ug/L	1.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
alpha-BHC	ug/L	0.05	0.160	69%	88%	24%
beta-BHC	ug/L	0.05	0.160	74%	94%	24%
gamma-BHC (Lindane)	ug/L	0.05	0.160	71%	89%	23%
delta-BHC	ug/L	0.1	0.160	77%	98%	24%
Heptachlor	ug/L	0.05	0.160	72%	89%	21%
Aldrin	ug/L	0.05	0.160	66%	83%	23%
Heptachlor epoxide	ug/L	0.8	0.160	70%	92%	27%
Endosulfan I	ug/L	0.1	0.160	40%	53%	28%
Dieldrin	ug/L	0.02	0.160	74%	92%	22%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

PESTICIDES
Batch: 92 42678
Samples: 92 0524659, 92 0525710

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Endrin	ug/L	0.06	0.160	77%	93%	19%
4,4-DDD	ug/L	0.1	0.160	80%	101%	23%
Endosulfan II	ug/L	0.1	0.160	54%	66%	20%
4,4-DDT	ug/L	0.1	0.160	75%	88%	16%
4,4-DDE	ug/L	0.1	0.160	79%	99%	22%
Endrin aldehyde	ug/L	0.2	0.160	66%	87%	27%
Endosulfan sulfate	ug/L	0.7	0.160	111%	129%	15%
Methoxychlor	ug/L	1.0	0.400	89%	107%	18%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

VOLATILE ORGANICS
Batch: 92 42571
Samples: 92 0522745, 92 0522753

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Chloromethane	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
Chloroform	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
2-Butanone (MEK)	ug/L	100	ND
1,1,1-Trichloroethane	ug/L	5.0	ND
Carbon tetrachloride	ug/L	5.0	ND
Benzene	ug/L	5.0	ND
Trichloroethene	ug/L	5.0	ND
1,2-Dichloropropane	ug/L	5.0	ND
Bromodichloromethane	ug/L	5.0	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
trans-1,3-Dichloropropene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND
Dibromochloromethane	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
Toluene	ug/L	5.0	ND
Tetrachloroethene	ug/L	5.0	ND
2-Hexanone	ug/L	50	ND
2-Chloroethoxyethene	ug/L	10	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

VOLATILE ORGANICS
Batch: 92 42571
Samples: 92 0522745, 92 0522753

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Xylenes, Total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
Surrogate - 1,2-Dichloroethane-d4	%		109
Surrogate - Toluene-d8	%		102
Surrogate - Bromofluorobenzene	%		100

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Chloromethane	ug/L	10	20	60%
Chloroethene (Vinyl chloride)	ug/L	10	20	65%
Bromomethane	ug/L	10	20	55%
Chloroethane	ug/L	10	20	65%
1,1-Dichloroethene	ug/L	5.0	20	65%
Acetone	ug/L	100	20	80%
Carbon disulfide	ug/L	5.0	20	60%
Dichloromethane	ug/L	5.0	20	65%
trans-1,2-Dichloroethene	ug/L	5.0	20	70%
1,1-Dichloroethane	ug/L	5.0	20	70%
				R1
Vinyl acetate	ug/L	50	20	19%
Chloroform	ug/L	5.0	20	85%
1,2-Dichloroethane	ug/L	5.0	20	95%
2-Butanone (MEK)	ug/L	100	20	60%
1,1,1-Trichloroethane	ug/L	5.0	20	85%
Carbon tetrachloride	ug/L	5.0	20	90%
Benzene	ug/L	5.0	20	90%
Trichloroethene	ug/L	5.0	20	115%
1,2-Dichloropropane	ug/L	5.0	20	100%
Bromodichloromethane	ug/L	5.0	20	90%
cis-1,3-Dichloropropene	ug/L	5.0	20	60%
trans-1,3-Dichloropropene	ug/L	5.0	20	55%

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QUALITY CONTROL DATA

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

VOLATILE ORGANICS
Batch: 92 42571
Samples: 92 0522745, 92 0522753

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
1,1,2-Trichloroethane	ug/L	5.0	20	55% R1
Dibromochloromethane	ug/L	5.0	20	60% R1
Bromoform	ug/L	5.0	20	55% R1
4-Methyl-2-pentanone (MIBK)	ug/L	50	20	90%
Toluene	ug/L	5.0	20	110%
Tetrachloroethene	ug/L	5.0	20	105%
2-Hexanone	ug/L	50	20	90%
2-Chloroethoxyethene	ug/L	10	20	110%
Chlorobenzene	ug/L	5.0	20	105%
Ethylbenzene	ug/L	5.0	20	105%
Xylenes, Total	ug/L	5.0	60	113%
Styrene	ug/L	5.0	20	110%
1,1,2,2-Tetrachloroethane	ug/L	5.0	20	90%

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FOOTNOTES
for pages 32 through 55

January 15, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

MDL	Method Detection Limit
ND	Not detected at or above the MDL.
R1	Recovery falls outside the quality control limit, however, this compound is not detected in the associated sample(s).
RPD	Relative Percent Difference

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QUALITY CONTROL DATA

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Chloride
Batch: 93 30702
Samples: 92 0522745, 92 0522753

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	Duplicate of 930162002		93 0162002	R
Chloride	mg/L	1	ND				
Chloride	mg/L	10		120	122	2%	

SPIKE:

Parameter	Units	MDL	Spike 930162002	Spike
Chloride	mg/L	10	120	50

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Chloride	mg/L	1	25.00	

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QUALITY CONTROL DATA

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Chloride
Batch: 93 30866
Samples: 92 0524659, 92 0525710

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	920524659 MW-5	Duplicate of 92 0524659	RPD
Chloride	mg/L	1	ND	3.2	3.40	6%

SPIKE:

Parameter	Units	MDL	920524659 MW-5	Spike	Spike Recv
Chloride	mg/L	1	3.2	5.00	101%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Chloride	mg/L	1	25.00	97%

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QUALITY CONTROL DATA

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Fluoride, Total Recoverable (Electrode)
Batch: 93 30770
Samples: 92 0522745, 92 0522753, 92 0524659, 92 0525710

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	920526171	Duplicate of 92 0526171	RPD
Fluoride, Total Recoverable (Electrode)	mg/L	0.1	ND	0.22	0.22	0%

SPIKE:

Parameter	Units	MDL	920526066	Spike	Spike Recv
Fluoride, Total Recoverable (Electrode)	mg/L	0.1	0.12	0.25	96%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Fluoride, Total Recoverable (Electrode)	mg/L	0.1	0.50	97%

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QUALITY CONTROL DATA

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Nitrogen, Nitrate in Wastewater
Batch: 93 30938
Samples: 92 0522745, 92 0522753

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Nitrogen, Nitrate in Wastewater	mg/L	0.1	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Nitrogen, Nitrate in Wastewater	mg/L	0.1	0.45	94%

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QUALITY CONTROL DATA

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Nitrogen, Nitrate in Wastewater
Batch: 93 30989
Samples: 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Nitrogen, Nitrate in Wastewater	mg/L	0.1	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Nitrogen, Nitrate in Wastewater	mg/L	0.1	0.45	98%

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Ms. Susan Kite QUALITY CONTROL DATA January 11, 1996
Page 62 PACE Project Number: 651219504

Client Reference: Third Creek

Nitrogen, Nitrite in Wastewater
Batch: 93 30688
Samples: 92 0522745, 92 0522753

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	920522753 MW7	Duplicate of 92 0522753	RPD
Nitrogen, Nitrite in Wastewater	mg/L	0.02	ND			
Nitrogen, Nitrite in Wastewater	mg/L	0.1		ND	ND	NC

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Nitrogen, Nitrite in Wastewater	mg/L	0.02	0.04	100%

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Ms. Susan Kite QUALITY CONTROL DATA January 11, 1996
Page 63 PACE Project Number: 651219504

Client Reference: Third Creek

Phenol
Batch: 93 30726
Samples: 92 0522745, 92 0522753

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	930163211	Duplicate of 93 0163211	RPD
Phenol	mg/L	0.005	ND			
Phenol	mg/L	0.025		0.226	0.224	1%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Phenol	mg/L	0.005	0.025	98%

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QUALITY CONTROL DATA

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Phenol
Batch: 93 30896
Samples: 92 0524659, 92 0525710

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Phenol	mg/L	0.005	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Phenol	mg/L	0.005	0.025	94%

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QUALITY CONTROL DATA

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Sulfate
Batch: 93 30714
Samples: 92 0522745, 92 0522753

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	930161391	Duplicate of 93 0161391	RPD
Sulfate	mg/L	1	ND	1.8	1.69	6%

SPIKE:

Parameter	Units	MDL	930161391	Spike	Spike Recv
Sulfate	mg/L	1	1.8	5.00	104%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Sulfate	mg/L	1	5.00	97%

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QUALITY CONTROL DATA

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Sulfate
Batch: 93 30889
Samples: 92 0524659, 92 0525710

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	920524659 MW-5	Duplicate of 92 0524659	RPD
Sulfate	mg/L	1	ND	ND	ND	NC

SPIKE:

Parameter	Units	MDL	920524659 MW-5	Spike	Spike Recv
Sulfate	mg/L	1	ND	5.00	92%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Sulfate	mg/L	1	5.00	94%

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QUALITY CONTROL DATA

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

Total Organic Carbon
Batch: 93 30898
Samples: 92 0522745, 92 0522753, 92 0523563, 92 0523580, 92 0523598
92 0524659, 92 0525710

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	920527186	Duplicate of 92 0527186	RPD
Total Organic Carbon	mg/L	0.5	ND	2.4	2.3	4%

SPIKE:

Parameter	Units	MDL	920527194	Spike	Spike Recv
Total Organic Carbon	mg/L	0.5	6.2	2.00	103%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Total Organic Carbon	mg/L	0.5	10.0	99%

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FOOTNOTES
for pages 6 through 16

January 11, 1996
PACE Project Number: 651219504

Client Reference: Third Creek

MDL	Method Detection Limit
NC	No calculation due to value below detection limit.
ND	Not detected at or above the MDL.
RPD	Relative Percent Difference

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REPORT OF LABORATORY ANALYSIS

METHOD BLANK DATA

TEST CODE	DETERMINATION	RESULT	UNIT
BATCH NO: 58941		SAMPLE NO:	M361923
OVTCW	TCL - Volatiles in Water		
	1,1,1-Trichloroethane	< 5	ug/L
	1,1,2,2-Tetrachloroethane	< 5	ug/L
	1,1,2-Trichloroethane	< 5	ug/L
	1,1-Dichloroethane	< 5	ug/L
	1,1-Dichloroethene	< 5	ug/L
	1,2-Dichloroethane	< 5	ug/L
	1,2-Dichloroethene (total)	< 5	ug/L
	1,2-Dichloropropane	< 5	ug/L
	2-Butanone	< 10	ug/L
	2-Hexanone	< 10	ug/L
	4-Methyl-2-pentanone	< 10	ug/L
	Acetone	< 10	ug/L
	Benzene	< 5	ug/L
	Bromodichloromethane	< 5	ug/L
	Bromoform	< 5	ug/L
	Bromomethane	< 10	ug/L
	Carbon disulfide	< 5	ug/L
	Carbon tetrachloride	< 5	ug/L
	Chlorobenzene	< 5	ug/L
	Chloroethane	< 10	ug/L
	Chloroform	< 5	ug/L
	Chloromethane	< 10	ug/L
	Dibromochloromethane	< 5	ug/L
	Ethylbenzene	< 5	ug/L
	Methylene chloride	< 5	ug/L
	Styrene	< 5	ug/L
	Tetrachloroethene	< 5	ug/L
	Toluene	< 5	ug/L
	Trichloroethene	< 5	ug/L
	Vinyl acetate	< 10	ug/L
	Vinyl chloride	< 10	ug/L
	Xylene(total)	< 5	ug/L
	cis-1,3-Dichloropropene	< 5	ug/L
	trans-1,3-Dichloropropene	< 5	ug/L

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REPORT OF LABORATORY ANALYSIS

LABORATORY CONTROL SAMPLE RECOVERY

TEST CODE	DETERMINATION	LCS % RECOVERY	ACCEPTANCE LIMITS
BATCH NO: 58941			SAMPLE NO: H361922
OVTCW	TCL - Volatiles in Water		
	1,1-Dichloroethene	102	-
	Benzene	103	-
	Chlorobenzene	99	-
	Toluene	97	-
	Trichloroethene	101	-

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REPORT OF LABORATORY ANALYSIS

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE DATA

TEST CODE	DETERMINATION	MS RESULT	MSD RESULT	UNITS	RPD	MS PCT RCVRY	MSD PCT RCVRY
BATCH NO: 58659						SAMPLE NO: H417132	
OVTCWD	Volatiles by 8260 - Subtitle D						
	1,1-Dichloroethene	19.3	18.7	ug/L	3.00	96	93
	Benzene	17.7	18.0	ug/L	1.51	89	90
	Chlorobenzene	17.0	16.3	ug/L	3.85	85	82
	Toluene	16.7	16.2	ug/L	3.35	84	81
	Trichloroethene	18.0	17.5	ug/L	2.31	90	88
BATCH NO: 58912						SAMPLE NO: H419818	
OVTCW2	8260A TCL Volatiles in Water						
	1,1-Dichloroethene	44.1	41.3	ug/L	6.46	110	103
	Benzene	44.3	43.9	ug/L	0.86	111	110
	Chlorobenzene	44.4	42.8	ug/L	3.65	111	107
	Toluene	44.4	43.6	ug/L	1.89	111	109
	Trichloroethene	43.5	43.3	ug/L	0.62	109	108
BATCH NO: 58912						SAMPLE NO: H419820	
OVTCW2	8260A TCL Volatiles in Water						
	1,1-Dichloroethene	42.7	41.3	ug/L	3.41	107	104
	Benzene	44.8	44.6	ug/L	0.47	112	112
	Chlorobenzene	44.2	43.8	ug/L	1.14	111	109
	Toluene	45.2	44.6	ug/L	1.45	113	112
	Trichloroethene	44.6	47.5	ug/L	6.19	112	119

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REPORT OF LABORATORY ANALYSIS

METHOD BLANK DATA

TEST CODE	DETERMINATION	RESULT	UNIT

BATCH NO: 58763 SAMPLE NO: H361615

I315	Halogens, Total Organic (TOX)	< 5	ug/L

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REPORT OF LABORATORY ANALYSIS

LABORATORY CONTROL SAMPLE RECOVERY

TEST CODE	DETERMINATION	LCS % RECOVERY	ACCEPTANCE LIMITS
BATCH NO: 58763			SAMPLE NO: H361614
I315	Halogens, Total Organic (TOX)	103.1	-

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REPORT OF LABORATORY ANALYSIS

DUPLICATE AND MATRIX SPIKE DATA

TEST CODE	DETERMINATION	ORIGINAL RESULT	DUPLICATE RESULT	UNITS	RANGE / RPD	MS RESULT	MS % RCVRY
BATCH NO: 58763						SAMPLE NO: H419194	
I315	Halogens, Total Organic (TOX)	< 5	---	ug/L	---	57	111.0

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REPORT OF ANALYSIS

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Attn: Clevecia Harris

Work Order # : 95-12-330
Date Received: 12/20/95
Report Due by: 01/03/96
OLI Contact: J_DENT

Work ID: 651219504
Samples collected by: Client
Total Samples: 2

Sample Identification	Description of Analysis	Description of Analysis
01A 522745	Radium 226 & 228 in water Total Dissolved Solids	Gross Alpha/Gross Beta
02A 522753	Radium 226 & 228 in water QC for Radiochemistry Total Dissolved Solids	Gross Alpha/Gross Beta QC for Wet Chemistry

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Authorized Laboratory Signature

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P.O. Box 149127 • Orlando, FL 32814 • (407) 896-6645 • Fax (407) 898-6588

Results of Analysis

Work ID: 651219504 Work Order: 95-12-330

Client Number:		522745	522753
OLI Number:		01A	02A

Gross Alpha/Gross Beta: Water

EPA 900 0	Units	Result/Flag	Result/Flag
Gross Alpha: EPA 900.0	pCi/l	6.1	8.0
Gross Beta: EPA 900.0	pCi/l	5.4	6.6
G/A Counting Error: APPX B	pCi/l	+/- 1.1	+/- 1.4
G/B Counting Error: APPX B	pCi/l	+/- 0.8	+/- 0.9

Client Number:		522745	522753
OLI Number:		01A	02A

Radium 226 & 228 in water: Water

903 1 BRKBD	Units	Result/Flag	Result/Flag
Radium 226: EPA_903_1	pCi/l	2.4	3.0
226 Counting error: APPX_B	pCi/l	+/- 0.3	+/- 0.3
Radium 228: BRKS_BLNCHD	pCi/l	1.2	2.5
228 Counting error: APPX_B	pCi/l	+/- 0.6	+/- 0.7

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Results of Analysis

Work ID: 651219504 Work Order: 95-12-330

Client Number:		522745	522753	
OLI Number:		01A	02A	
Analyte	Units	Result/Flag	Result/Flag	MDL
Total Dissolved Solids	mg/l	76	112	10

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QA for Analysis

Work ID: 651219504 Work Order: 95-12-330

	Test Description	Method	Prep	Run	Analyst
Client No: 522745	Total Dissolved Solids	EPA_160_1	NA	12/22/95	SS
OLI No: 01A	Gross Alpha/Gross Beta	EPA 900.0	NA	12/22/95	MJN
Matrix: Water	Radium 226 & 228 in water				
Collected: 12/19/95	Radium 226	EPA_903_1	NA	12/27/95	MJN
	226 Counting error	APPX_B	NA	12/27/95	MJN
	Radium 228	BRKS_BLNCHD	NA	12/27/95	MJN
	228 Counting error	APPX_B	NA	12/27/95	MJN

	Test Description	Method	Prep	Run	Analyst
Client No: 522753	Total Dissolved Solids	EPA_160_1	NA	12/22/95	SS
OLI No: 02A	Gross Alpha/Gross Beta	EPA 900.0	NA	12/22/95	MJN
Matrix: Water	Radium 226 & 228 in water				
Collected: 12/19/95	Radium 226	EPA_903_1	NA	12/27/95	MJN
	226 Counting error	APPX_B	NA	12/27/95	MJN
	Radium 228	BRKS_BLNCHD	NA	12/27/95	MJN
	228 Counting error	APPX_B	NA	12/27/95	MJN

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Pace, Inc.
Attn: Clevecia Harris

Report Number: 95-12-330

Quality Control Data Sheets

Parameter	OLI Sample #	Matrix Spike % Recovery	Matrix Spike Dup % Recovery	Relative Percent Difference	Analysis Date	Analyst
Gross Alpha	9512330-02	94	82	6	12/22/95	MJN
Gross Beta	9512330-02	97	91	3	12/22/95	MJN
Radium 226	9512330-01	90	81	10	12/27/95	MJN
Radium 228	9512330-01	95	91	4	12/27/95	MJN
Total Dissolved Solids*	9512371-01	NA	NA	2	12/22/95	SS

Relative Percent Difference (RPD) was calculated from results of sample and sample duplicate.

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ORLANDO LABORATORIES, INC.
REPORT ANALYSIS CODES

Qual	Definition
<	Less Than
>	Greater Than
A	Value reported is the mean (average) of two or more determinations.
B	Results were based upon colony counts outside the acceptable range.
C	Less Than 50 Non-Coliform Background Bacteria
CFU	Colony Forming Units
D.O.	Diluted Out
E	Less Than 200 Non-Coliform Background Bacteria
G	More Than 200 Non-Coliform Background Bacteria
H	Value based on field kit determination and may not be accurate.
I	The reported value is between the laboratory MDL and the laboratory practical quantitation limit.
J	Indicates an Estimated Value; value not accurate.
MCL	Maximum Contaminant Level
MDL	The Method Detection Limit at a 1 dilution factor (and 0% moisture if soil/sediment) for each compound/analyte.
N	Presumptive evidence of presence of material. (Library search, evidence of possible interference, evidence of analyte but QC requirements for confirmation not met.)
NA	Not Applicable
N/C	No Combustion
NR	Not Requested
Q	Sample analyzed beyond the accepted holding time.
T	Value reported is less than the laboratory method detection limit. It is reported for information purposes only and not for statistical analysis.
U	Indicates the compound was analyzed, but not detected. The numerical value preceding the 'U' is the limit of detection for that compound, based upon the dilution (and moisture content if soil/sediment).
V	Analyte was detected in both the sample and the associated Method Blank.
W	Value obtained is less than the lowest value reported under the "T" code. No response was found.
Y	The lab sample was received incompletely, improperly or not preserved and preserved at the laboratory for analysis.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume (mL).

ORLANDO LABORATORIES, INC. CERTIFICATIONS

State	Drinking Water Certification	Environmental Certification
Florida	HRS 83141	HRS E83033
Alabama	40020	Not Required*
Georgia	—	Not Required*
Michigan	Certified	Not Required*
North Carolina	12700	101
South Carolina	96016	96016
Tennessee	02928	UST - listed
Virginia	00248	Not Required*

DEP Comprehensive QA Plan Approval #860106

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*Indicates no Florida certification program is in place and/or state will accept Florida certification.

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REPORT OF ANALYSIS

Pace, Inc.
Suite 100
9800 Kincey Avenue
Huntersville, NC 28078
Attn: Clevecia Harris

Work Order # : 95-12-374
Date Received: 12/22/95
Report Due by: 01/08/96
OLI Contact: J_DENT

Work ID: 651219504
Samples collected by: Client
Total Samples: 2

Sample Identification	Description of Analysis	Description of Analysis
01A 524659	Radium 226 & 228 in water	Gross Alpha/Gross Beta
02A 525710	Radium 226 & 228 in water QC for Radiochemistry	Gross Alpha/Gross Beta

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Authorized Laboratory Signature

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Results of Analysis

Work ID: 651219504 Work Order: 95-12-374

Client Number:		524659	525710
OLI Number:		01A	02A

Gross Alpha/Gross Beta: Water

EPA 900 0	Units	Result/Flag	Result/Flag
Gross Alpha: EPA 900.0	pCi/l	1.2	1.4
Gross Beta: EPA 900.0	pCi/l	3.5	2.8
G/A Counting Error: APPX B	pCi/l	+/- 0.7	+/- 0.8
G/B Counting Error: APPX B	pCi/l	+/- 0.8	+/- 0.8

Client Number:		524659	525710
OLI Number:		01A	02A

Radium 226 & 228 in water: Water

903 1 BRKBD	Units	Result/Flag	Result/Flag
Radium 226: EPA_903_1	pCi/l	1.2	0.5
226 Counting error: APPX_B	pCi/l	+/- 0.2	+/- 0.1
Radium 228: BRKS_BLNCHD	pCi/l	1.1 U	1.0 U
228 Counting error: APPX_B	pCi/l	+/- 0.7	+/- 0.7

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QA for Analysis

Work ID: 651219504

Work Order: 95-12-374

	Test Description	Method	Prep	Run	Analyst
Client No: 524659	Gross Alpha/Gross Beta	EPA 900.0	NA	12/28/95	MJN
OLI No: 01A	Radium 226 & 228 in water				
Matrix: Water	Radium 226	EPA_903_1	NA	01/03/96	MJN
Collected: 12/21/95	226 Counting error	APPX_B	NA	01/03/96	MJN
	Radium 228	BRKS_BLNCHD	NA	01/03/96	MJN
	228 Counting error	APPX_B	NA	01/03/96	MJN

	Test Description	Method	Prep	Run	Analyst
Client No: 525710	Gross Alpha/Gross Beta	EPA 900.0	NA	12/28/95	MJN
OLI No: 02A	Radium 226 & 228 in water				
Matrix: Water	Radium 226	EPA_903_1	NA	01/03/96	MJN
Collected: 12/21/95	226 Counting error	APPX_B	NA	01/03/96	MJN
	Radium 228	BRKS_BLNCHD	NA	01/03/96	MJN
	228 Counting error	APPX_B	NA	01/03/96	MJN

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Pace, Inc.
Attn: Clevecia Harris

Report Number: 95-12-374

Quality Control Data Sheets

Parameter	OLI Sample #	Matrix Spike % Recovery	Matrix Spike Dup % Recovery	Relative Percent Difference	Analysis Date	Analyst
Gross Alpha	9512374-01	89	100	10	12/28/95	MJN
Gross Beta	9512374-01	92	96	2	12/28/95	MJN
Radium 226	9512383-01	112	101	10	01/03/96	MJN
Radium 228	9512383-01	115	110	4	01/03/96	MJN

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ENVIRONMENTAL LABORATORIES

326479

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: AMATERRA
Address: GREENSBORO
Phone: 910-852-5003

Report To: SUSAN [illegible]
Bill To:
P.O. # / Billing Reference: CNC-3853
Project Name / No.:

Pace Client No.:
Pace Project Manager:
Pace Project No.: [illegible]
*Requested Due Date:

Sampled By (PRINT): DUG SMITH
Sampler Signature: Doug Smith
Date Sampled: 12/21/05

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA		ANALYSES REQUEST	REMARKS
1	MW-5	12:10	H_2O		18	2	4	4	6	3	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	524659
2	MW-6	12:00			18	2	4	4	6		✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	525710
3	MW-7	11:00			2	2						525722.8
4	MW-8-DUP-2	11:10			2	2						524604
5	MW-8-DUP-3	11:10			2	2						524683
6												525736
7												525144
8												

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	Doug Smith (AQ)	[illegible] / Pace	12/21	1230

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: [illegible]
Address: [illegible]
Phone: [illegible]

Report To: [illegible] SUSAN R.
Bill To:
P.O. # / Billing Reference: GNC-3893
Project Name / No.: HARD CREEK

Pace Client No.: [illegible]
Pace Project Manager: FCG
Pace Project No.: [illegible]
*Requested Due Date: Delay [illegible]

Sampled By (PRINT): [illegible]
Sampler Signature: [illegible]
Date Sampled: 12/11/25

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA			NO3, TOC	TD	TDX	TP	[illegible]	[illegible]	[illegible]	8240	[illegible]	[illegible]	[illegible]	REMARKS
1	MW3	1200		17	2	4	4					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	522745
2	MW7	[illegible]		25	2	4	4					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	522753
3																							
4																							
5	FCG MW8 Dup1 - 523563																						
6	MW8 Dup2 - 523580																						
7	MW8 Dup3 - 523598																						
8																							

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT/DATE	RETURNED/DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
X	[illegible] (AQ)	KOMCO / PACE	12/19	1300

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS