VOLUME III

APPENDIX C PHASE III ANALYTICAL DATA (CON'T.)

RCRA FACILITY INVESTIGATION

PHASE III RFI DRAFT REPORT

EQUILON ENTERPRISES LLC
Shell & Texaco Working Together

Prepared for
Equilon Wood River Refining Company
Roxana, Illinois

May 2000

URS Greiner Woodward Clyde

URS Greiner Woodward-Clyde
2318 Millpark Drive
Maryland Heights, MO 63043
(314) 429-0100
2389C8602F.01

APPENDIXC

Phase III Analytical Data

ORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR003)
NO. OF SAMPLES/
MATRIX 18 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/28/00

DATA ASSESSMENT WORKSHEET

	(VOCs) Meth # 8260	(SVOCs) Meth # 8270	(PAHs) Meth # 8310	Meth #	(TOC) Meth # Walkley-Black
1. HOLDING TIMES	(1)	✓	✓		✓
2. BLANKS	✓	✓	✓		✓
3. SURROGATES	✓	✓	✓		N/A
4. SCS (LCS)	✓	✓	✓		✓
5. DCS (LSCD)	N/A	N/A	✓		N/A
6. MATIX SPIKE/DUP	(2)	✓	(3)		N/A
7. DILUTIONS	✓	✓	✓		✓
8. DUPLICATES	✓	✓	✓		✓
9. OVERALL ASSESSMENT	O	O	O/X		O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS:

COMMENTS: (1) The MS/MSD (SS360004) was analyzed outside its hold time by 1 day. However, since the suurogate and LCS/LCSD recoveries were all within control limits, no action is necessary.
(2) See comment (1) and, MS/MSD recoveries were high for trichloroethene, toluene, and chlorobenzene. However, since the MS/MSD and LCS/LCSD recoveries/RPDs were within control limits, no action is necessary.
(3) MS/MSD recoveries were outside control limits for acenaphthalene. However, the surrogate recoveries and LCS/LCSD recoveries/RPDs were within control limits, therefore, no action is necessary.

INORGANIC DATA ASSESSMENT

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NO. OF SAMPLES/
MATRIX 18 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S
COMPLETION DATE 2/28/00

DATA ASSESSMENT WORKSHEET

	(Metals) Meth # 6010	(Mercury) Meth # 7471	Meth #	(Cyanide) Meth # 9010	(Sulfide) Meth # 9030
1. HOLDING TIMES	✓	✓		✓	✓
2. BLANKS	✓	✓		(9)	(10)
3. DUPLICATES	✓	✓		✓	✓
4. SCS (LCS)	✓	✓		✓	✓
5. DCS (LSCD)	N/A	N/A		N/A	✓
6. MATIX SPIKE/DUP	(4)	(7)		✓	(11)
7. DILUTIONS	(5&6)	(8)		✓	✓
8.	O	O		O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (10) Sulfide was detected in the method blank. Therefore, all detects <5x's the method blank results were qualified as non-detect.

COMMENTS: (4&7) MS/MSD recoveries for chromium, mercury, and zinc were outside control limits However, the spike amount added is <4x's the original sample result (SS360004). Therefore, the % recovery does not apply, and no action is necessary.
(5) Serial dilutions for barium, beryllium, cobalt, and nickel were >10x's due to matrix interference. The lab qualified this data as estimated, however, no additional qualifiers have been added by us.
(6) Samples SS359012, SS360004, SS363004, SS363012, SS366004, and SS366004D were diluted by various amounts (2, 5, 10x's), however, no action is necessary.
(8) Sample SS366004D was diluted by 10x's and SS359012 by 20x's, however, no action is necessary.
(9) Cyanide was detected in method blank 1123U. However, all detects were >5x's the method blank result, and no action is necessary.
(11) The MS/MSD recoveries were outside control limits. However, since the LCS/LCSD recoveries were within control limits, no action is necessary.

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LOG NO: S9-17660
Received: 12 NOV 99
Reported: 05 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 165900111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-1	SS36000411119900S	11-11-99/14:00	WRR003

PARAMETER	17660-1		
Volatile Organic Compounds (8260)			
Acetonitrile, ug/kg dw	330U		
Acetone, ug/kg dw	82U		
Benzene, ug/kg dw	8.2U		
Bromodichloromethane, ug/kg dw	8.2U		
Bromomethane (Methyl bromide), ug/kg dw	16U		
Carbon disulfide, ug/kg dw	8.2U		
Chlorobenzene, ug/kg dw	8.2U		
Dibromochloromethane, ug/kg dw	8.2U		
Chloroethane, ug/kg dw	16U		
Chloromethane (Methyl chloride), ug/kg dw	16U		
Chloroform, ug/kg dw	8.2U		
3-Chloro-1-propene (Allyl chloride), ug/kg dw	8.2U		
Chloroprene, ug/kg dw	8.2U		
1,2-Dibromo-3-chloropropane, ug/kg dw	16U		
1,2-Dibromoethane (EDB), ug/kg dw	8.2U		
trans-1,4-Dichloro-2-butene, ug/kg dw	8.2U		
Dichlorodifluoromethane, ug/kg dw	8.2U		
1,1-Dichloroethane, ug/kg dw	8.2U		
1,2-Dichloroethane, ug/kg dw	8.2U		
cis-1,2-Dichloroethene, ug/kg dw	8.2U		
trans-1,2-Dichloroethene, ug/kg dw	8.2U		
1,1-Dichloroethylene, ug/kg dw	8.2U		

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17660-1	SS36000411119900S	11-11-99/14:00	WRR003

PARAMETER	17660-1
Methylene chloride (Dichloromethane), ug/kg dw	8.2U
1,2-Dichloropropane, ug/kg dw	8.2U
cis-1,3-Dichloropropene, ug/kg dw	8.2U
trans-1,3-Dichloropropene, ug/kg dw	8.2U
Ethylbenzene, ug/kg dw	8.2U
Methyl ethyl ketone, ug/kg dw	41U
Iodomethane (Methyl iodide), ug/kg dw	8.2U
Methacrylonitrile, ug/kg dw	160U
4-Methyl-2-pentanone (MIBK), ug/kg dw	41U
Pentachloroethane, ug/kg dw	41U
Styrene, ug/kg dw	8.2U
1,1,1,2-Tetrachloroethane, ug/kg dw	8.2U
1,1,2,2-Tetrachloroethane, ug/kg dw	8.2U
Tetrachloroethene, ug/kg dw	8.2U
Carbon tetrachloride, ug/kg dw	8.2U
Toluene, ug/kg dw	8.2U
Bromoform, ug/kg dw	8.2U
1,1,2-Trichloroethane, ug/kg dw	8.2U
1,1,1-Trichloroethane, ug/kg dw	8.2U
Trichloroethene, ug/kg dw	8.2U
Trichlorofluoromethane, ug/kg dw	8.2U
1,2,3-Trichloropropane, ug/kg dw	8.2U
Vinyl acetate, ug/kg dw	16U

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PARAMETER	17660-1
Vinyl chloride, ug/kg dw	16U
Xylenes, Total, ug/kg dw	16U
2-Hexanone, ug/kg dw	41U
Propionitrile, ug/kg dw	160U
Methyl methacrylate, ug/kg dw	8.2U
Acrolein (Propenal), ug/kg dw	160U
Acrylonitrile, ug/kg dw	160U
Ethyl methacrylate, ug/kg dw	8.2U
Isobutanol (Isobutyl alcohol), ug/kg dw	330U
Dibromomethane, ug/kg dw	8.2U
Surrogate - Toluene-d8	122 %
Surrogate - 4-Bromofluorobenzene	108 %
Surrogate - Dibromofluoromethane	110 %
Dilution Factor	1.0
Analysis Date	11.25.99
Batch ID	2M1124

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PARAMETER	17660-1		
Acids and Base Neutrals (8270-APP9)			
Acenaphthene, ug/kg dw	550U		
Acetophenone, ug/kg dw	550U		
2-Acetylaminofluorene, ug/kg dw	550U		
4-Aminobiphenyl, ug/kg dw	550U		
Aniline, ug/kg dw	550U		
Aramite (total), ug/kg dw	550U		
Benzenethiol, ug/kg dw	1100U		
Benzyl alcohol, ug/kg dw	550U		
bis(2-Chloroethoxy)methane, ug/kg dw	550U		
bis(2-Chloroethyl)ether, ug/kg dw	550U		
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	550U		
bis(2-Ethylhexyl)phthalate, ug/kg dw	550U		
4-Bromophenylphenyl ether, ug/kg dw	550U		
Butylbenzylphthalate, ug/kg dw	550U		
4-Chloroaniline (p-Chloroaniline), ug/kg dw	1100U		
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	550U		
2-Chloronaphthalene, ug/kg dw	550U		
2-Chlorophenol, ug/kg dw	550U		
4-Chlorophenylphenyl ether, ug/kg dw	550U		
Cresol, m & p, ug/kg dw	550U		
Cresol (ortho), ug/kg dw	550U		

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PARAMETER	17660-1
Diallate, Total, ug/kg dw	550U
Dibenzofuran, ug/kg dw	550U
Di-n-butylphthalate, ug/kg dw	550U
1,2-Dichlorobenzene, ug/kg dw	550U
1,3-Dichlorobenzene, ug/kg dw	550U
1,4-Dichlorobenzene, ug/kg dw	550U
3,3'-Dichlorobenzidine, ug/kg dw	1100U
2,4-Dichlorophenol, ug/kg dw	550U
2,6-Dichlorophenol, ug/kg dw	550U
Diethylphthalate, ug/kg dw	550U
p-(Dimethylamino)azobenzene, ug/kg dw	550U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	550U
3,3'-Dimethylbenzidine, ug/kg dw	1100U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	110000U
2,4-Dimethylphenol, ug/kg dw	550U
Dimethylphthalate, ug/kg dw	550U
m-Dinitrobenzene , ug/kg dw	550U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2800U
2,4-Dinitrophenol, ug/kg dw	2800U
2,4-Dinitrotoluene, ug/kg dw	550U
2,6-Dinitrotoluene, ug/kg dw	550U
Di-n-octylphthalate, ug/kg dw	550U

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17660-1	SS36000411119900S	11-11-99/14:00	WRR003

PARAMETER	17660-1
1,4-Dioxane, ug/kg dw	550U
Ethyl methanesulfonate, ug/kg dw	550U
Hexachlorobenzene, ug/kg dw	550U
Hexachlorobutadiene, ug/kg dw	550U
Hexachlorocyclopentadiene, ug/kg dw	550U
Hexachloroethane, ug/kg dw	550U
Hexachlorophene, ug/kg dw	33000U
Hexachloropropene, ug/kg dw	550U
Isophorone, ug/kg dw	550U
Isosafrole, ug/kg dw	550U
Kepone, ug/kg dw	550U
Methapyrilene, ug/kg dw	11000U
3-Methylcholanthrene, ug/kg dw	550U
Methyl methanesulfonate, ug/kg dw	550U
2-Methylnaphthalene, ug/kg dw	550U
1-Methylnaphthalene, ug/kg dw	550U
1,4-Naphthoquinone, ug/kg dw	550U
1-Naphthylamine, ug/kg dw	550U
2-Naphthylamine, ug/kg dw	550U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2800U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2800U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2800U
Nitrobenzene, ug/kg dw	550U

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17660-1	SS36000411119900S	11-11-99/14:00	WRR003

PARAMETER	17660-1		
2-Nitrophenol (o-Nitrophenol), ug/kg dw	550U		
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2800U		
4-Nitroquinoline-1-oxide, ug/kg dw	5500U		
N-Nitrosodi-n-butylamine, ug/kg dw	550U		
N-Nitrosodiethylamine, ug/kg dw	550U		
N-Nitrosodimethylamine, ug/kg dw	550U		
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	550U		
n-Nitrosodi-n-propylamine, ug/kg dw	550U		
N-Nitrosomethylethylamine, ug/kg dw	550U		
N-Nitrosomorpholine, ug/kg dw	550U		
N-Nitrosopiperidine, ug/kg dw	550U		
N-Nitrosopyrrolidine, ug/kg dw	550U		
5-Nitro-o-toluidine, ug/kg dw	550U		
Pentachlorobenzene, ug/kg dw	550U		
Pentachloronitrobenzene, ug/kg dw	550U		
Pentachlorophenol, ug/kg dw	2800U		
Phenacetin, ug/kg dw	550U		
Phenol, ug/kg dw	550U		
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2800U		
2-Picoline, ug/kg dw	550U		
Pronamide, ug/kg dw	550U		
Pyrene, ug/kg dw	550U		
Pyridine, ug/kg dw	550U		

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17660-1	SS36000411119900S	11-11-99/14:00	WRR003

PARAMETER	17660-1
Safrole, ug/kg dw	550U
Quinoline, ug/kg dw	1100U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	550U
2,3,4,6-Tetrachlorophenol, ug/kg dw	550U
o-Toluidine, ug/kg dw	550U
1,2,4-Trichlorobenzene, ug/kg dw	550U
2,4,5-Trichlorophenol, ug/kg dw	550U
2,4,6-Trichlorophenol, ug/kg dw	550U
O,O,O-Triethyl phosphorothioate, ug/kg dw	550U
1,3,5-Trinitrobenzene, ug/kg dw	550U
Famphur, ug/kg dw	550U
Dimethoate, ug/kg dw	550U
Surrogate - Phenol-d5	34 %
Surrogate - 2-Fluorophenol	53 %
Surrogate - 2,4,6-Tribromophenol	45 %
Surrogate - Nitrobenzene-d5	39 %
Surrogate - 2-Fluorobiphenyl	43 %
Surrogate - Terphenyl-d14	39 %
Dilution Factor	1.0
Prep Date	11.16.99
Analysis Date	11.17.99
Batch ID	1116D

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17660-1	SS36000411119900S	11-11-99/14:00	WRR003

PARAMETER	17660-1
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	1100P
Acenaphthylene, ug/kg dw	33U
Anthracene, ug/kg dw	6.7U
Benzo(a)anthracene, ug/kg dw	6.7U
Benzo(a)pyrene, ug/kg dw	6.7U
Benzo(b)fluoranthene, ug/kg dw	6.7U
Benzo(g,h,i)perylene, ug/kg dw	17U
Benzo(k)fluoranthene, ug/kg dw	6.7U
Chrysene, ug/kg dw	6.7U
Dibenzo(a,h)anthracene, ug/kg dw	17U
Fluoranthene, ug/kg dw	17U
Fluorene, ug/kg dw	17U
Indeno(1,2,3-cd)pyrene, ug/kg dw	17U
Naphthalene, ug/kg dw	33U
Phenanthrene, ug/kg dw	6.7U
Pyrene, ug/kg dw	17U
Surrogate - Terphenyl-d14	41 %
Dilution Factor	1.0
Prep Date	11.17.99
Analysis Date	11.27.99
Batch ID	1117J

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17660-1	SS36000411119900S	11-11-99/14:00	WRR003

PARAMETER	17660-1
Mercury (7471)	
Mercury, mg/kg dw	0.88
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S

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PARAMETER	17660-1
Metals (6010)	
Antimony, mg/kg dw	32
Arsenic, mg/kg dw	4.8
Barium, mg/kg dw	320E
Beryllium, mg/kg dw	0.92E
Cadmium, mg/kg dw	3.7
Chromium, mg/kg dw	9100
Cobalt, mg/kg dw	12E
Copper, mg/kg dw	61
Nickel, mg/kg dw	29E
Lead, mg/kg dw	190
Selenium, mg/kg dw	4.3
Silver, mg/kg dw	1.7U
Tin, mg/kg dw	8.3U
Thallium, mg/kg dw	8.3U
Vanadium, mg/kg dw	40
Zinc, mg/kg dw	270
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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17660-1	SS36000411119900S	11-11-99/14:00	WRR003

PARAMETER	17660-1
Cyanide, Total (9010), mg/kg dw	2.0
Dilution Factor	1.0
Prep Date	11.23.99
Analysis Date	11.24.99
Batch ID	1123U
Sulfide (9030), mg/kg dw	42U
Dilution Factor	1
Prep Date	11.18.99
Analysis Date	11.18.99
Batch ID	1118A
Percent Solids	60

Elizabeth F. Beauchamp, Project Manager

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LOG NO: S9-17660
Received: 12 NOV 99
Reported: 05 JAN 00

Ms. Heather Halderman
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2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 170100111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	320U
Acetone, ug/kg dw	79U
Benzene, ug/kg dw	7.9U
Bromodichloromethane, ug/kg dw	7.9U
Bromomethane (Methyl bromide), ug/kg dw	16U
Carbon disulfide, ug/kg dw	7.9U
Chlorobenzene, ug/kg dw	7.9U
Dibromochloromethane, ug/kg dw	7.9U
Chloroethane, ug/kg dw	16U
Chloromethane (Methyl chloride), ug/kg dw	16U
Chloroform, ug/kg dw	7.9U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	7.9U
Chloroprene, ug/kg dw	7.9U
1,2-Dibromo-3-chloropropane, ug/kg dw	16U
1,2-Dibromoethane (EDB), ug/kg dw	7.9U
trans-1,4-Dichloro-2-butene, ug/kg dw	7.9U
Dichlorodifluoromethane, ug/kg dw	7.9U
1,1-Dichloroethane, ug/kg dw	7.9U
1,2-Dichloroethane, ug/kg dw	7.9U
cis-1,2-Dichloroethene, ug/kg dw	7.9U
trans-1,2-Dichloroethene, ug/kg dw	7.9U
1,1-Dichloroethylene, ug/kg dw	7.9U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Methylene chloride (Dichloromethane), ug/kg dw	7.9U
1,2-Dichloropropane, ug/kg dw	7.9U
cis-1,3-Dichloropropene, ug/kg dw	7.9U
trans-1,3-Dichloropropene, ug/kg dw	7.9U
Ethylbenzene, ug/kg dw	7.9U
Methyl ethyl ketone, ug/kg dw	39U
Iodomethane (Methyl iodide), ug/kg dw	7.9U
Methacrylonitrile, ug/kg dw	160U
4-Methyl-2-pentanone (MIBK), ug/kg dw	39U
Pentachloroethane, ug/kg dw	39U
Styrene, ug/kg dw	7.9U
1,1,1,2-Tetrachloroethane, ug/kg dw	7.9U
1,1,2,2-Tetrachloroethane, ug/kg dw	7.9U
Tetrachloroethene, ug/kg dw	7.9U
Carbon tetrachloride, ug/kg dw	7.9U
Toluene, ug/kg dw	7.9U
Bromoform, ug/kg dw	7.9U
1,1,2-Trichloroethane, ug/kg dw	7.9U
1,1,1-Trichloroethane, ug/kg dw	7.9U
Trichloroethene, ug/kg dw	7.9U
Trichlorofluoromethane, ug/kg dw	7.9U
1,2,3-Trichloropropane, ug/kg dw	7.9U
Vinyl acetate, ug/kg dw	16U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Vinyl chloride, ug/kg dw	16U
Xylenes, Total, ug/kg dw	16U
2-Hexanone, ug/kg dw	39U
Propionitrile, ug/kg dw	160U
Methyl methacrylate, ug/kg dw	7.9U
Acrolein (Propenal), ug/kg dw	160U
Acrylonitrile, ug/kg dw	160U
Ethyl methacrylate, ug/kg dw	7.9U
Isobutanol (Isobutyl alcohol), ug/kg dw	320U
Dibromomethane, ug/kg dw	7.9U
Surrogate - Toluene-d8	124 %
Surrogate - 4-Bromofluorobenzene	110 %
Surrogate - Dibromofluoromethane	111 %
Dilution Factor	1.0
Analysis Date	11.25.99
Batch ID	2M1124

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	480U
2-Acetylaminofluorene, ug/kg dw	480U
4-Aminobiphenyl, ug/kg dw	480U
Aniline, ug/kg dw	480U
Aramite (total), ug/kg dw	480U
Benzenethiol, ug/kg dw	950U
Benzyl alcohol, ug/kg dw	480U
bis(2-Chloroethoxy)methane, ug/kg dw	480U
bis(2-Chloroethyl)ether, ug/kg dw	480U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy l)ether], ug/kg dw	480U
bis(2-Ethylhexyl)phthalate, ug/kg dw	480U
4-Bromophenylphenyl ether, ug/kg dw	480U
Butylbenzylphthalate, ug/kg dw	480U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	950U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	480U
2-Chloronaphthalene, ug/kg dw	480U
2-Chlorophenol, ug/kg dw	480U
4-Chlorophenylphenyl ether, ug/kg dw	480U
Cresol, m & p, ug/kg dw	480U
Cresol (ortho), ug/kg dw	480U
Diallate, Total, ug/kg dw	480U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Dibenzofuran, ug/kg dw	480U
Di-n-butylphthalate, ug/kg dw	480U
1,2-Dichlorobenzene, ug/kg dw	480U
1,3-Dichlorobenzene, ug/kg dw	480U
1,4-Dichlorobenzene, ug/kg dw	480U
3,3'-Dichlorobenzidine, ug/kg dw	950U
2,4-Dichlorophenol, ug/kg dw	480U
2,6-Dichlorophenol, ug/kg dw	480U
Diethylphthalate, ug/kg dw	480U
p-(Dimethylamino)azobenzene, ug/kg dw	480U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	480U
3,3'-Dimethylbenzidine, ug/kg dw	950U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	96000U
2,4-Dimethylphenol, ug/kg dw	480U
Dimethylphthalate, ug/kg dw	480U
m-Dinitrobenzene , ug/kg dw	480U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2400U
2,4-Dinitrophenol, ug/kg dw	2400U
2,4-Dinitrotoluene, ug/kg dw	480U
2,6-Dinitrotoluene, ug/kg dw	480U
Di-n-octylphthalate, ug/kg dw	480U
1,4-Dioxane, ug/kg dw	480U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Ethyl methanesulfonate, ug/kg dw	480U
Hexachlorobenzene, ug/kg dw	480U
Hexachlorobutadiene, ug/kg dw	480U
Hexachlorocyclopentadiene, ug/kg dw	480U
Hexachloroethane, ug/kg dw	480U
Hexachlorophene, ug/kg dw	29000U
Hexachloropropene, ug/kg dw	480U
Isophorone, ug/kg dw	480U
Isosafrole, ug/kg dw	480U
Kepone, ug/kg dw	480U
Methapyrilene, ug/kg dw	9500U
3-Methylcholanthrene, ug/kg dw	480U
Methyl methanesulfonate, ug/kg dw	480U
2-Methylnaphthalene, ug/kg dw	480U
1-Methylnaphthalene, ug/kg dw	480U
1,4-Naphthoquinone, ug/kg dw	480U
1-Naphthylamine, ug/kg dw	480U
2-Naphthylamine, ug/kg dw	480U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2400U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2400U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2400U
Nitrobenzene, ug/kg dw	480U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	480U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2400U
4-Nitroquinoline-1-oxide, ug/kg dw	4800U
N-Nitrosodi-n-butylamine, ug/kg dw	480U
N-Nitrosodiethylamine, ug/kg dw	480U
N-Nitrosodimethylamine, ug/kg dw	480U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	480U
n-Nitrosodi-n-propylamine, ug/kg dw	480U
N-Nitrosomethylethylamine, ug/kg dw	480U
N-Nitrosomorpholine, ug/kg dw	480U
N-Nitrosopiperidine, ug/kg dw	480U
N-Nitrosopyrrolidine, ug/kg dw	480U
5-Nitro-o-toluidine, ug/kg dw	480U
Pentachlorobenzene, ug/kg dw	480U
Pentachloronitrobenzene, ug/kg dw	480U
Pentachlorophenol, ug/kg dw	2400U
Phenacetin, ug/kg dw	480U
Phenol, ug/kg dw	480U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2400U
2-Picoline, ug/kg dw	480U
Pronamide, ug/kg dw	480U
Pyridine, ug/kg dw	480U
Safrole, ug/kg dw	480U
Quinoline, ug/kg dw	950U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2		
1,2,4,5-Tetrachlorobenzene, ug/kg dw	480U		
2,3,4,6-Tetrachlorophenol, ug/kg dw	480U		
o-Toluidine, ug/kg dw	480U		
1,2,4-Trichlorobenzene, ug/kg dw	480U		
2,4,5-Trichlorophenol, ug/kg dw	480U		
2,4,6-Trichlorophenol, ug/kg dw	480U		
O,O,O-Triethyl phosphorothioate, ug/kg dw	480U		
1,3,5-Trinitrobenzene, ug/kg dw	480U		
Famphur, ug/kg dw	480U		
Dimethoate, ug/kg dw	480U		
Surrogate - Phenol-d5	27 %		
Surrogate - 2-Fluorophenol	42 %		
Surrogate - 2,4,6-Tribromophenol	44 %		
Surrogate - Nitrobenzene-d5	32 %		
Surrogate - 2-Fluorobiphenyl	30 %		
Surrogate - Terphenyl-d14	38 %		
Dilution Factor	1.0		
Prep Date	11.16.99		
Analysis Date	11.17.99		
Batch ID	1116D		

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	72U
Acenaphthylene, ug/kg dw	29U
Anthracene, ug/kg dw	5.8U
Benzo(a)anthracene, ug/kg dw	5.8U
Benzo(a)pyrene, ug/kg dw	5.8U
Benzo(b)fluoranthene, ug/kg dw	5.8U
Benzo(g,h,i)perylene, ug/kg dw	14U
Benzo(k)fluoranthene, ug/kg dw	5.8U
Chrysene, ug/kg dw	5.8U
Dibenzo(a,h)anthracene, ug/kg dw	14U
Fluoranthene, ug/kg dw	14U
Fluorene, ug/kg dw	14U
Indeno(1,2,3-cd)pyrene, ug/kg dw	14U
Naphthalene, ug/kg dw	29U
Phenanthrene, ug/kg dw	5.8U
Pyrene, ug/kg dw	14U
Surrogate - Terphenyl-d14	46 %
Dilution Factor	1.0
Prep Date	11.17.99
Analysis Date	11.27.99
Batch ID	1117J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Mercury (7471)	
Mercury, mg/kg dw	0.035U
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Metals (6010)	
Antimony, mg/kg dw	5.3U
Arsenic, mg/kg dw	6.7
Barium, mg/kg dw	450E
Beryllium, mg/kg dw	1.0E
Cadmium, mg/kg dw	0.69U
Chromium, mg/kg dw	30
Cobalt, mg/kg dw	9.2E
Copper, mg/kg dw	24
Nickel, mg/kg dw	24E
Lead, mg/kg dw	15
Selenium, mg/kg dw	1.4U
Silver, mg/kg dw	1.4U
Tin, mg/kg dw	6.9U
Thallium, mg/kg dw	1.4U
Vanadium, mg/kg dw	42
Zinc, mg/kg dw	76
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-2	SS36001211119900S	11-11-99/14:10	WRR003

PARAMETER	17660-2
Cyanide, Total (9010), mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	11.23.99
Analysis Date	11.24.99
Batch ID	1123U
Sulfide (9030), mg/kg dw	36U
Dilution Factor	1
Prep Date	11.18.99
Analysis Date	11.18.99
Batch ID	1118A
Percent Solids	69

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	270U
Acetone, ug/kg dw	69U
Benzene, ug/kg dw	6.9U
Bromodichloromethane, ug/kg dw	6.9U
Bromomethane (Methyl bromide), ug/kg dw	14U
Carbon disulfide, ug/kg dw	6.9U
Chlorobenzene, ug/kg dw	6.9U
Dibromochloromethane, ug/kg dw	6.9U
Chloroethane, ug/kg dw	14U
Chloromethane (Methyl chloride), ug/kg dw	14U
Chloroform, ug/kg dw	6.9U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	6.9U
Chloroprene, ug/kg dw	6.9U
1,2-Dibromo-3-chloropropane, ug/kg dw	14U
1,2-Dibromoethane (EDB), ug/kg dw	6.9U
trans-1,4-Dichloro-2-butene, ug/kg dw	6.9U
Dichlorodifluoromethane, ug/kg dw	6.9U
1,1-Dichloroethane, ug/kg dw	6.9U
1,2-Dichloroethane, ug/kg dw	6.9U
cis-1,2-Dichloroethene, ug/kg dw	6.9U
trans-1,2-Dichloroethene, ug/kg dw	6.9U
1,1-Dichloroethylene, ug/kg dw	6.9U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3
Methylene chloride (Dichloromethane), ug/kg dw	6.9U
1,2-Dichloropropane, ug/kg dw	6.9U
cis-1,3-Dichloropropene, ug/kg dw	6.9U
trans-1,3-Dichloropropene, ug/kg dw	6.9U
Ethylbenzene, ug/kg dw	6.9U
Methyl ethyl ketone, ug/kg dw	34U
Iodomethane (Methyl iodide), ug/kg dw	6.9U
Methacrylonitrile, ug/kg dw	140U
4-Methyl-2-pentanone (MIBK), ug/kg dw	34U
Pentachloroethane, ug/kg dw	34U
Styrene, ug/kg dw	6.9U
1,1,1,2-Tetrachloroethane, ug/kg dw	6.9U
1,1,2,2-Tetrachloroethane, ug/kg dw	6.9U
Tetrachloroethene, ug/kg dw	6.9U
Carbon tetrachloride, ug/kg dw	6.9U
Toluene, ug/kg dw	6.9U
Bromoform, ug/kg dw	6.9U
1,1,2-Trichloroethane, ug/kg dw	6.9U
1,1,1-Trichloroethane, ug/kg dw	6.9U
Trichloroethene, ug/kg dw	6.9U
Trichlorofluoromethane, ug/kg dw	6.9U
1,2,3-Trichloropropane, ug/kg dw	6.9U
Vinyl acetate, ug/kg dw	14U

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Ms. Heather Halderman
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2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 170100111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3		
Vinyl chloride, ug/kg dw	14U		
Xylenes, Total, ug/kg dw	14U		
2-Hexanone, ug/kg dw	34U		
Propionitrile, ug/kg dw	140U		
Methyl methacrylate, ug/kg dw	6.9U		
Acrolein (Propenal), ug/kg dw	140U		
Acrylonitrile, ug/kg dw	140U		
Ethyl methacrylate, ug/kg dw	6.9U		
Isobutanol (Isobutyl alcohol), ug/kg dw	270U		
Dibromomethane, ug/kg dw	6.9U		
Surrogate - Toluene-d8	128 %		
Surrogate - 4-Bromofluorobenzene	109 %		
Surrogate - Dibromofluoromethane	106 %		
Dilution Factor	1.0		
Analysis Date	11.25.99		
Batch ID	2M1124		

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17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	470U
2-Acetylaminofluorene, ug/kg dw	470U
4-Aminobiphenyl, ug/kg dw	470U
Aniline, ug/kg dw	470U
Aramite (total), ug/kg dw	470U
Benzenethiol, ug/kg dw	940U
Benzyl alcohol, ug/kg dw	470U
bis(2-Chloroethoxy)methane, ug/kg dw	470U
bis(2-Chloroethyl)ether, ug/kg dw	470U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	470U
bis(2-Ethylhexyl)phthalate, ug/kg dw	470U
4-Bromophenylphenyl ether, ug/kg dw	470U
Butylbenzylphthalate, ug/kg dw	470U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	940U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	470U
2-Chloronaphthalene, ug/kg dw	470U
2-Chlorophenol, ug/kg dw	470U
4-Chlorophenylphenyl ether, ug/kg dw	470U
Cresol, m & p, ug/kg dw	470U
Cresol (ortho), ug/kg dw	470U
Diallate, Total, ug/kg dw	470U

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17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3		
Dibenzofuran, ug/kg dw	470U		
Di-n-butylphthalate, ug/kg dw	470U		
1,2-Dichlorobenzene, ug/kg dw	470U		
1,3-Dichlorobenzene, ug/kg dw	470U		
1,4-Dichlorobenzene, ug/kg dw	470U		
3,3'-Dichlorobenzidine, ug/kg dw	940U		
2,4-Dichlorophenol, ug/kg dw	470U		
2,6-Dichlorophenol, ug/kg dw	470U		
Diethylphthalate, ug/kg dw	470U		
p-(Dimethylamino)azobenzene, ug/kg dw	470U		
7,12-Dimethylbenz(a)anthracene, ug/kg dw	470U		
3,3'-Dimethylbenzidine, ug/kg dw	940U		
alpha,alpha-Dimethylphenethylamine, ug/kg dw	96000U		
2,4-Dimethylphenol, ug/kg dw	470U		
Dimethylphthalate, ug/kg dw	470U		
m-Dinitrobenzene , ug/kg dw	470U		
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2400U		
2,4-Dinitrophenol, ug/kg dw	2400U		
2,4-Dinitrotoluene, ug/kg dw	470U		
2,6-Dinitrotoluene, ug/kg dw	470U		
Di-n-octylphthalate, ug/kg dw	470U		
1,4-Dioxane, ug/kg dw	470U		

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17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3
Ethyl methanesulfonate, ug/kg dw	470U
Hexachlorobenzene, ug/kg dw	470U
Hexachlorobutadiene, ug/kg dw	470U
Hexachlorocyclopentadiene, ug/kg dw	470U
Hexachloroethane, ug/kg dw	470U
Hexachlorophene, ug/kg dw	28000U
Hexachloropropene, ug/kg dw	470U
Isophorone, ug/kg dw	470U
Isosafrole, ug/kg dw	470U
Kepone, ug/kg dw	470U
Methapyrilene, ug/kg dw	9400U
3-Methylcholanthrene, ug/kg dw	470U
Methyl methanesulfonate, ug/kg dw	470U
2-Methylnaphthalene, ug/kg dw	470U
1-Methylnaphthalene, ug/kg dw	470U
1,4-Naphthoquinone, ug/kg dw	470U
1-Naphthylamine, ug/kg dw	470U
2-Naphthylamine, ug/kg dw	470U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2400U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2400U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2400U
Nitrobenzene, ug/kg dw	470U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	470U

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PARAMETER	17660-3
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2400U
4-Nitroquinoline-1-oxide, ug/kg dw	4700U
N-Nitrosodi-n-butylamine, ug/kg dw	470U
N-Nitrosodiethylamine, ug/kg dw	470U
N-Nitrosodimethylamine, ug/kg dw	470U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	470U
n-Nitrosodi-n-propylamine, ug/kg dw	470U
N-Nitrosomethylethylamine, ug/kg dw	470U
N-Nitrosomorpholine, ug/kg dw	470U
N-Nitrosopiperidine, ug/kg dw	470U
N-Nitrosopyrrolidine, ug/kg dw	470U
5-Nitro-o-toluidine, ug/kg dw	470U
Pentachlorobenzene, ug/kg dw	470U
Pentachloronitrobenzene, ug/kg dw	470U
Pentachlorophenol, ug/kg dw	2400U
Phenacetin, ug/kg dw	470U
Phenol, ug/kg dw	470U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2400U
2-Picoline, ug/kg dw	470U
Pronamide, ug/kg dw	470U
Pyridine, ug/kg dw	470U
Safrole, ug/kg dw	470U
Quinoline, ug/kg dw	940U

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17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3
1,2,4,5-Tetrachlorobenzene, ug/kg dw	470U
2,3,4,6-Tetrachlorophenol, ug/kg dw	470U
o-Toluidine, ug/kg dw	470U
1,2,4-Trichlorobenzene, ug/kg dw	470U
2,4,5-Trichlorophenol, ug/kg dw	470U
2,4,6-Trichlorophenol, ug/kg dw	470U
O,O,O-Triethyl phosphorothioate, ug/kg dw	470U
1,3,5-Trinitrobenzene, ug/kg dw	470U
Famphur, ug/kg dw	470U
Dimethoate, ug/kg dw	470U
Surrogate - Phenol-d5	35 %
Surrogate - 2-Fluorophenol	50 %
Surrogate - 2,4,6-Tribromophenol	54 %
Surrogate - Nitrobenzene-d5	38 %
Surrogate - 2-Fluorobiphenyl	40 %
Surrogate - Terphenyl-d14	42 %
Dilution Factor	1.0
Prep Date	11.16.99
Analysis Date	11.17.99
Batch ID	1116D

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17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	71U
Acenaphthylene, ug/kg dw	28U
Anthracene, ug/kg dw	5.7U
Benzo(a)anthracene, ug/kg dw	5.7U
Benzo(a)pyrene, ug/kg dw	5.7U
Benzo(b)fluoranthene, ug/kg dw	5.7U
Benzo(g,h,i)perylene, ug/kg dw	14U
Benzo(k)fluoranthene, ug/kg dw	5.7U
Chrysene, ug/kg dw	5.7U
Dibenzo(a,h)anthracene, ug/kg dw	14U
Fluoranthene, ug/kg dw	14U
Fluorene, ug/kg dw	14U
Indeno(1,2,3-cd)pyrene, ug/kg dw	14U
Naphthalene, ug/kg dw	28U
Phenanthrene, ug/kg dw	5.7U
Pyrene, ug/kg dw	14U
Surrogate - Terphenyl-d14	66 %
Dilution Factor	1.0
Prep Date	11.17.99
Analysis Date	11.28.99
Batch ID	1117J

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3
Mercury (7471)	
Mercury, mg/kg dw	0.046
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S

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17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3
Metals (6010)	
Antimony, mg/kg dw	5.2U
Arsenic, mg/kg dw	9.0
Barium, mg/kg dw	200E
Beryllium, mg/kg dw	1.1E
Cadmium, mg/kg dw	0.68U
Chromium, mg/kg dw	51
Cobalt, mg/kg dw	9.6E
Copper, mg/kg dw	24
Nickel, mg/kg dw	24E
Lead, mg/kg dw	16
Selenium, mg/kg dw	1.4U
Silver, mg/kg dw	1.4U
Tin, mg/kg dw	6.8U
Thallium, mg/kg dw	1.4U
Vanadium, mg/kg dw	53
Zinc, mg/kg dw	78
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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17660-3	SS36001211119900D	11-11-99/14:10	WRR003

PARAMETER	17660-3	
Cyanide, Total (9010), mg/kg dw	1.4U	
Dilution Factor	1.0	
Prep Date	11.23.99	
Analysis Date	11.23.99	
Batch ID	1123U	
Sulfide (9030), mg/kg dw	36	u
Dilution Factor	1	
Prep Date	11.18.99	
Analysis Date	11.18.99	
Batch ID	1118A	
Percent Solids	70	

Elizabeth F. Beauchamp, Project Manager

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-4	SS35900411119900S	11-11-99/11:15	WRR003

PARAMETER	17660-4
Organic Carbon (WALKLEY-BLACK), mg/kg dw	9700
Dilution Factor	1.0
Prep Date	12.07.99
Analysis Date	12.07.99
Batch ID	1207X
pH in Soil (9045)	
pH, units	7.51
Prep Date	11.29.99
Analysis Date	11.29.99
Batch ID	1129Y
Antimony (6010)	
Antimony, mg/kg dw	29
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	11
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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17660-4	SS35900411119900S	11-11-99/11:15	WRR003

PARAMETER	17660-4
Barium (6010)	
Barium, mg/kg dw	160E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Beryllium (6010)	
Beryllium, mg/kg dw	0.48E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	4.8
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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17660-4	SS35900411119900S	11-11-99/11:15	WRR003

PARAMETER	17660-4
Chromium (6010)	
Chromium, mg/kg dw	860
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Lead (6010)	
Lead, mg/kg dw	160
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.1U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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17660-4	SS35900411119900S	11-11-99/11:15	WRR003

PARAMETER	17660-4
Vanadium (6010)	
Vanadium, mg/kg dw	28
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Zinc (6010)	
Zinc, mg/kg dw	380
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kgdw	0.12
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	83

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-5	SS35901211119900S	11-11-99/11:25	WRR003

PARAMETER	17660-5
Organic Carbon (WALKLEY-BLACK), mg/kg dw	54000
Dilution Factor	1.0
Prep Date	12.07.99
Analysis Date	12.07.99
Batch ID	1207X
pH in Soil (9045)	
pH, units	7.52
Prep Date	11.29.99
Analysis Date	11.29.99
Batch ID	1129Y
Antimony (6010)	
Antimony, mg/kg dw	12U
Dilution Factor	2.0
Prep Date	12.16.99
Analysis Date	12.20.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	3.3
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-5	SS35901211119900S	11-11-99/11:25	WRR003

PARAMETER	17660-5
Barium (6010)	
Barium, mg/kg dw	340E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Beryllium (6010)	
Beryllium, mg/kg dw	0.57E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	0.70U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO: S9-17660
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Reported: 05 JAN 00

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Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 142700113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-5	SS35901211119900S	11-11-99/11:25	WRR003

PARAMETER	17660-5
Chromium (6010)	
Chromium, mg/kg dw	3100
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Lead (6010)	
Lead, mg/kg dw	130
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-5	SS35901211119900S	11-11-99/11:25	WRR003

PARAMETER	17660-5
Vanadium (6010)	
Vanadium, mg/kg dw	37
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Zinc (6010)	
Zinc, mg/kg dw	160
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kgdw	6.9
Dilution Factor	20.0
Prep Date	11.24.99
Analysis Date	11.26.99
Batch ID	1124S
Percent Solids	68

Elizabeth F. Beauchamp, Project Manager

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	200U
Acetone, ug/kg dw	50U
Benzene, ug/kg dw	5.0U
Bromodichloromethane, ug/kg dw	5.0U
Bromomethane (Methyl bromide), ug/kg dw	10U
Carbon disulfide, ug/kg dw	5.0U
Chlorobenzene, ug/kg dw	5.0U
Dibromochloromethane, ug/kg dw	5.0U
Chloroethane, ug/kg dw	10U
Chloromethane (Methyl chloride), ug/kg dw	10U
Chloroform, ug/kg dw	5.0U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.0U
Chloroprene, ug/kg dw	5.0U
1,2-Dibromo-3-chloropropane, ug/kg dw	10U
1,2-Dibromoethane (EDB), ug/kg dw	5.0U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.0U
Dichlorodifluoromethane, ug/kg dw	5.0U
1,1-Dichloroethane, ug/kg dw	5.0U
1,2-Dichloroethane, ug/kg dw	5.0U
cis-1,2-Dichloroethene, ug/kg dw	5.0U
trans-1,2-Dichloroethene, ug/kg dw	5.0U
1,1-Dichloroethylene, ug/kg dw	5.0U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
Methylene chloride (Dichloromethane), ug/kg dw	5.0U
1,2-Dichloropropane, ug/kg dw	5.0U
cis-1,3-Dichloropropene, ug/kg dw	5.0U
trans-1,3-Dichloropropene, ug/kg dw	5.0U
Ethylbenzene, ug/kg dw	5.0U
Methyl ethyl ketone, ug/kg dw	25U
Iodomethane (Methyl iodide), ug/kg dw	5.0U
Methacrylonitrile, ug/kg dw	100U
4-Methyl-2-pentanone (MIBK), ug/kg dw	25U
Pentachloroethane, ug/kg dw	25U
Styrene, ug/kg dw	5.0U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.0U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.0U
Tetrachloroethene, ug/kg dw	5.0U
Carbon tetrachloride, ug/kg dw	5.0U
Toluene, ug/kg dw	5.0U
Bromoform, ug/kg dw	5.0U
1,1,2-Trichloroethane, ug/kg dw	5.0U
1,1,1-Trichloroethane, ug/kg dw	5.0U
Trichloroethene, ug/kg dw	5.0U
Trichlorofluoromethane, ug/kg dw	5.0U
1,2,3-Trichloropropane, ug/kg dw	5.0U
Vinyl acetate, ug/kg dw	10U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
Vinyl chloride, ug/kg dw	10U
Xylenes, Total, ug/kg dw	10U
2-Hexanone, ug/kg dw	25U
Propionitrile, ug/kg dw	100U
Methyl methacrylate, ug/kg dw	5.0U
Acrolein (Propenal), ug/kg dw	100U
Acrylonitrile, ug/kg dw	100U
Ethyl methacrylate, ug/kg dw	5.0U
Isobutanol (Isobutyl alcohol), ug/kg dw	200U
Dibromomethane, ug/kg dw	5.0U
Surrogate - Toluene-d8	124 %
Surrogate - 4-Bromofluorobenzene	118 %
Surrogate - Dibromofluoromethane	106 %
Dilution Factor	1.0
Analysis Date	11.25.99
Batch ID	2M1124

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/l	10U
2-Acetylaminofluorene, ug/l	10U
4-Aminobiphenyl, ug/l	10U
Aniline, ug/l	20U
Aramite (total), ug/l	10U
Benzenethiol, ug/l	10U
Benzyl alcohol, ug/l	10U
bis(2-Chloroethoxy)methane, ug/l	10U
bis(2-Chloroethyl)ether, ug/l	10U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/l	10U
bis(2-Ethylhexyl)phthalate, ug/l	10U
4-Bromophenylphenyl ether, ug/l	10U
Butylbenzylphthalate, ug/l	10U
4-Chloroaniline (p-Chloroaniline), ug/l	20U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/l	10U
2-Chloronaphthalene, ug/l	10U
2-Chlorophenol, ug/l	10U
4-Chlorophenylphenyl ether, ug/l	10U
Cresol, m & p, ug/l	10U
Cresol (ortho), ug/l	10U
Diallate, Total, ug/l	10U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
Dibenzofuran, ug/l	10U
Di-n-butylphthalate, ug/l	10U
1,2-Dichlorobenzene, ug/l	10U
1,3-Dichlorobenzene, ug/l	10U
1,4-Dichlorobenzene, ug/l	10U
3,3'-Dichlorobenzidine, ug/l	20U
2,4-Dichlorophenol, ug/l	10U
2,6-Dichlorophenol, ug/l	10U
Diethylphthalate, ug/l	10U
p-(Dimethylamino)azobenzene, ug/l	10U
7,12-Dimethylbenz(a)anthracene, ug/l	10U
3,3'-Dimethylbenzidine, ug/l	20U
alpha,alpha-Dimethylphenethylamine, ug/l	200U
2,4-Dimethylphenol, ug/l	10U
Dimethylphthalate, ug/l	10U
m-Dinitrobenzene , ug/l	10U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/l	50U
2,4-Dinitrophenol, ug/l	50U
2,4-Dinitrotoluene, ug/l	10U
2,6-Dinitrotoluene, ug/l	10U
Di-n-octylphthalate, ug/l	10U
1,4-Dioxane, ug/l	10U
Ethyl methanesulfonate, ug/l	10U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
Hexachlorobenzene, ug/l	10U
Hexachlorobutadiene, ug/l	10U
Hexachlorocyclopentadiene, ug/l	10U
Hexachloroethane, ug/l	10U
Hexachlorophene, ug/l	5000U
Hexachloropropene, ug/l	10U
Isophorone, ug/l	10U
Isosafrole, ug/l	10U
Kepone	10U
Methapyrilene, ug/l	200U
3-Methylcholanthrene, ug/l	10U
Methyl methanesulfonate, ug/l	10U
2-Methylnaphthalene, ug/l	10U
1,4-Naphthoquinone, ug/l	10U
1-Naphthylamine, ug/l	10U
2-Naphthylamine, ug/l	10U
2-Nitroaniline (o-Nitroaniline), ug/l	50U
3-Nitroaniline (m-Nitroaniline), ug/l	50U
4-Nitroaniline (p-Nitroaniline), ug/l	50U
Nitrobenzene, ug/l	10U
2-Nitrophenol (o-Nitrophenol), ug/l	10U
4-Nitrophenol (p-Nitrophenol), ug/l	50U
4-Nitroquinoline-1-oxide, ug/l	20U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
N-Nitrosodi-n-butylamine, ug/l	10U
N-Nitrosodiethylamine, ug/l	10U
N-Nitrosodimethylamine, ug/l	10U
N-Nitrosodiphenylamine/Diphenylamine, ug/l	10U
n-Nitrosodi-n-propylamine, ug/l	10U
N-Nitrosomethylethylamine, ug/l	10U
N-Nitrosomorpholine, ug/l	10U
N-Nitrosopiperidine, ug/l	10U
N-Nitrosopyrrolidine, ug/l	10U
5-Nitro-o-toluidine, ug/l	10U
Pentachlorobenzene, ug/l	10U
Pentachloronitrobenzene, ug/l	10U
Pentachlorophenol, ug/l	50U
Phenacetin, ug/l	10U
Phenol, ug/l	10U
1,4-Phenylenediamine (p-Phenylenediamine), ug/l	2000U
2-Picoline, ug/l	10U
Pronamide, ug/l	10U
Pyridine, ug/l	50U
Safrole, ug/l	10U
Quinoline	10U
1,2,4,5-Tetrachlorobenzene, ug/l	10U
2,3,4,6-Tetrachlorophenol, ug/l	10U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
o-Toluidine, ug/l	10U
1,2,4-Trichlorobenzene, ug/l	10U
2,4,5-Trichlorophenol, ug/l	10U
2,4,6-Trichlorophenol, ug/l	10U
O,O,O-Triethyl phosphorothioate, ug/l	10U
1,3,5-Trinitrobenzene, ug/l	10U
Famphur, ug/l	10U
Dimethoate, ug/l	10U
Surrogate - Phenol-d5	81 %
Surrogate - 2-Fluorophenol	70 %
Surrogate - 2,4,6-Tribromophenol	91 %
Surrogate - Nitrobenzene-d5	98 %
Surrogate - 2-Fluorobiphenyl	83 %
Surrogate - Terphenyl-d14	83 %
Dilution Factor	1.0
Prep Date	11.17.99
Analysis Date	11.20.99
Batch ID	1117D

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
Polynuclear Aromatics (8310)	
Acenaphthene, ug/l	1.0U
Acenaphthylene, ug/l	1.0U
Anthracene, ug/l	0.20U
Benzo(a)anthracene, ug/l	0.20U
Benzo(a)pyrene, ug/l	0.20U
Benzo(b)fluoranthene, ug/l	0.20U
Benzo(g,h,i)perylene, ug/l	0.50U
Benzo(k)fluoranthene, ug/l	0.20U
Chrysene, ug/l	0.20U
Dibenzo(a,h)anthracene, ug/l	0.20U
Fluoranthene, ug/l	0.50U
Fluorene, ug/l	0.50U
Indeno(1,2,3-cd)pyrene, ug/l	0.20U
Naphthalene, ug/l	1.0U
Phenanthrene, ug/l	0.20U
Pyrene, ug/l	0.50U
Surrogate - Terphenyl-d14	88 %
Dilution Factor	1.0
Prep Date	11.17.99
Analysis Date	11.23.99
Batch ID	1117K

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
Metals (6010)	
Antimony, mg/l	0.020U
Arsenic, mg/l	0.0032U
Barium, mg/l	0.010U
Beryllium, mg/l	0.0014U
Cadmium, mg/l	0.0050U
Chromium, mg/l	0.010U
Cobalt, mg/l	0.010U
Copper, mg/l	0.020U
Nickel, mg/l	0.040U
Lead, mg/l	0.0050U
Selenium, mg/l	0.010U
Silver, mg/l	0.010U
Tin, mg/l	0.050U
Thallium, mg/l	0.010U
Vanadium, mg/l	0.010U
Zinc, mg/l	0.020U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-6	W360003111199EB	11-11-99/15:00	WRR003

PARAMETER	17660-6
Mercury (7470)	
Mercury, ug/l	0.00020U
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.20.99
Batch ID	1119U
Cyanide, Total (9010), mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.23.99
Analysis Date	11.24.99
Batch ID	1123U
Sulfide (9030), mg/l	1.0U
Dilution Factor	1
Prep Date	11.18.99
Analysis Date	11.18.99
Batch ID	1118A

Methods: EPA SW-846, Update III.

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Sampled By: Client
Code: 144400113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-7	TB-009	11-11-99	WRR003

PARAMETER	17660-7
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	200U
Acetone, ug/kg dw	50U
Benzene, ug/kg dw	5.0U
Bromodichloromethane, ug/kg dw	5.0U
Bromomethane (Methyl bromide), ug/kg dw	10U
Carbon disulfide, ug/kg dw	5.0U
Chlorobenzene, ug/kg dw	5.0U
Dibromochloromethane, ug/kg dw	5.0U
Chloroethane, ug/kg dw	10U
Chloromethane (Methyl chloride), ug/kg dw	10U
Chloroform, ug/kg dw	5.0U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.0U
Chloroprene, ug/kg dw	5.0U
1,2-Dibromo-3-chloropropane, ug/kg dw	10U
1,2-Dibromoethane (EDB), ug/kg dw	5.0U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.0U
Dichlorodifluoromethane, ug/kg dw	5.0U
1,1-Dichloroethane, ug/kg dw	5.0U
1,2-Dichloroethane, ug/kg dw	5.0U
cis-1,2-Dichloroethene, ug/kg dw	5.0U
trans-1,2-Dichloroethene, ug/kg dw	5.0U
1,1-Dichloroethylene, ug/kg dw	5.0U

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LOG NO: S9-17660
Received: 12 NOV 99
Reported: 05 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 144400113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-7	TB-009	11-11-99	WRR003

PARAMETER	17660-7		
Methylene chloride (Dichloromethane), ug/kg dw	5.0U		
1,2-Dichloropropane, ug/kg dw	5.0U		
cis-1,3-Dichloropropene, ug/kg dw	5.0U		
trans-1,3-Dichloropropene, ug/kg dw	5.0U		
Ethylbenzene, ug/kg dw	5.0U		
Methyl ethyl ketone, ug/kg dw	25U		
Iodomethane (Methyl iodide), ug/kg dw	5.0U		
Methacrylonitrile, ug/kg dw	100U		
4-Methyl-2-pentanone (MIBK), ug/kg dw	25U		
Pentachloroethane, ug/kg dw	25U		
Styrene, ug/kg dw	5.0U		
1,1,1,2-Tetrachloroethane, ug/kg dw	5.0U		
1,1,2,2-Tetrachloroethane, ug/kg dw	5.0U		
Tetrachloroethene, ug/kg dw	5.0U		
Carbon tetrachloride, ug/kg dw	5.0U		
Toluene, ug/kg dw	5.0U		
Bromoform, ug/kg dw	5.0U		
1,1,2-Trichloroethane, ug/kg dw	5.0U		
1,1,1-Trichloroethane, ug/kg dw	5.0U		
Trichloroethene, ug/kg dw	5.0U		
Trichlorofluoromethane, ug/kg dw	5.0U		
1,2,3-Trichloropropane, ug/kg dw	5.0U		
Vinyl acetate, ug/kg dw	10U		

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17660-7	TB-009	11-11-99	WRR003

PARAMETER	17660-7
Vinyl chloride, ug/kg dw	10U
Xylenes, Total, ug/kg dw	10U
2-Hexanone, ug/kg dw	25U
Propionitrile, ug/kg dw	100U
Methyl methacrylate, ug/kg dw	5.0U
Acrolein (Propenal), ug/kg dw	100U
Acrylonitrile, ug/kg dw	100U
Ethyl methacrylate, ug/kg dw	5.0U
Isobutanol (Isobutyl alcohol), ug/kg dw	200U
Dibromomethane, ug/kg dw	5.0U
Surrogate - Toluene-d8	126 %
Surrogate - 4-Bromofluorobenzene	122 %
Surrogate - Dibromofluoromethane	104 %
Dilution Factor	1.0
Analysis Date	11.25.99
Batch ID	2M1124

U = Not detected at the Reporting Limit.

P = Identification of target analytes using GC methodology is based on retention time. Although two dissimilar GC detectors confirmed the presence of the target analyte in the sample, relative percent difference is >40 %. Thus, reviewer discretion should be employed during data review and interpretation of results for this target compound.

Elizabeth F. Beauchamp, Project Manager

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LOG NO: S9-17697
Received: 13 NOV 99
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Ms. Heather Halderman
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2318 Millpark Drive
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Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 170500111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-1	SS36500411129900S	11-12-99/08:55	WRR003

PARAMETER	17697-1
Antimony (6010)	
Antimony, mg/kg dw	9.4
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	8.1
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	240E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Code: 170500111

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-1	SS36500411129900S	11-12-99/08:55	WRR003

PARAMETER	17697-1
Beryllium (6010)	
Beryllium, mg/kg dw	0.96E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	1.7
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	1900
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-1	SS36500411129900S	11-12-99/08:55	WRR003

PARAMETER	17697-1
Lead (6010)	
Lead, mg/kg dw	78
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.5U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	44
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Code: 170500111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-1	SS36500411129900S	11-12-99/08:55	WRR003

PARAMETER	17697-1
Zinc (6010)	
Zinc, mg/kg dw	140
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.31
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	62

Elizabeth F. Beauchamp, Project Manager

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Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 170600111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-2	SS36501211129900S	11-12-99/09:05	WRR003

PARAMETER	17697-2
Antimony (6010)	
Antimony, mg/kg dw	5.5U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	5.2
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	230E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Sampled By: Client
Code: 170600111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-2	SS36501211129900S	11-12-99/09:05	WRR003

PARAMETER	17697-2
Beryllium (6010)	
Beryllium, mg/kg dw	0.77E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	0.65U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	22
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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17697-2	SS36501211129900S	11-12-99/09:05	WRR003

PARAMETER	17697-2
Lead (6010)	
Lead, mg/kg dw	12
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	34
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Sampled By: Client
Code: 170600111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-2	SS36501211129900S	11-12-99/09:05	WRR003

PARAMETER	17697-2
Zinc (6010)	
Zinc, mg/kg dw	60
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.034U
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	73

Elizabeth F. Beauchamp, Project Manager

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Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 170700111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-3	SS36600411129900D	11-12-99/09:40	WRR003

PARAMETER	17697-3
Antimony (6010)	
Antimony, mg/kg dw	120
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	5.2
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	280E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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17697-3	SS36600411129900D	11-12-99/09:40	WRR003

PARAMETER	17697-3
Beryllium (6010)	
Beryllium, mg/kg dw	0.62E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	0.94
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	2000
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A

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17697-3	SS36600411129900D	11-12-99/09:40	WRR003

PARAMETER	17697-3
Lead (6010)	
Lead, mg/kg dw	58
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	2.6
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	31
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-3	SS36600411129900D	11-12-99/09:40	WRR003

PARAMETER	17697-3
Zinc (6010)	
Zinc, mg/kg dw	120
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.59
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	84

Elizabeth E. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-4	SS36601211129900S	11-12-99/09:50	WRR003

PARAMETER	17697-4
Antimony (6010)	
Antimony, mg/kg dw	5.3U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	1.8
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	110E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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17697-4	SS36601211129900S	11-12-99/09:50	WRR003

PARAMETER	17697-4
Beryllium (6010)	
Beryllium, mg/kg dw	0.66E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	0.63U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	49
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-4	SS36601211129900S	11-12-99/09:50	WRR003

PARAMETER	17697-4
Lead (6010)	
Lead, mg/kg dw	11
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	19
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-4	SS36601211129900S	11-12-99/09:50	WRR003

PARAMETER	17697-4
Zinc (6010)	
Zinc, mg/kg dw	57
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.030U
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	75

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-5	SS36200411129900S	11-12-99/10:45	WRR003

PARAMETER	17697-5
Antimony (6010)	
Antimony, mg/kg dw	4.9U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	6.9
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	160E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO: S9-17697
Received: 13 NOV 99
Reported: 05 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 170700111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-5	SS36200411129900S	11-12-99/10:45	WRR003

PARAMETER	17697-5
Beryllium (6010)	
Beryllium, mg/kg dw	0.78E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	0.63
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	23
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-5	SS36200411129900S	11-12-99/10:45	WRR003

PARAMETER	17697-5
Lead (6010)	
Lead, mg/kg dw	26
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.1U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	35
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-5	SS36200411129900S	11-12-99/10:45	WRR003

PARAMETER	17697-5
Zinc (6010)	
Zinc, mg/kg dw	79
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.14
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	81

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-6	SS36201211129900S	11-12-99/10:55	WRR003

PARAMETER	17697-6
Antimony (6010)	
Antimony, mg/kg dw	5.8U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	3.0
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	240E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-6	SS36201211129900S	11-12-99/10:55	WRR003

PARAMETER	17697-6
Beryllium (6010)	
Beryllium, mg/kg dw	0.82E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	0.72U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	21
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-6	SS36201211129900S	11-12-99/10:55	WRR003

PARAMETER	17697-6
Lead (6010)	
Lead, mg/kg dw	12
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	33
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-6	SS36201211129900S	11-12-99/10:55	WRR003

PARAMETER	17697-6
Zinc (6010)	
Zinc, mg/kg dw	62
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.034U
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	69

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Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 171100111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-7	SS36300411129900S	11-12-99/13:25	WRR003

PARAMETER	17697-7
Antimony (6010)	
Antimony, mg/kg dw	24U
Dilution Factor	5.0
Prep Date	12.16.99
Analysis Date	12.20.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	3.8U
Dilution Factor	10.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	250E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Sampled By: Client
Code: 171100111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-7	SS36300411129900S	11-12-99/13:25	WRR003

PARAMETER	17697-7
Beryllium (6010)	
Beryllium, mg/kg dw	0.22E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	7.5
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	12000
Dilution Factor	10.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-7	SS36300411129900S	11-12-99/13:25	WRR003

PARAMETER	17697-7
Lead (6010)	
Lead, mg/kg dw	160
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	28
Dilution Factor	10.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A

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Sampled By: Client
Code: 171100111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-7	SS36300411129900S	11-12-99/13:25	WRR003

PARAMETER	17697-7
Zinc (6010)	
Zinc, mg/kg dw	150
Dilution Factor	10.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.64
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	84

Elizabeth F. Beauchamp, Project Manager

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Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 145400113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-14	W3660041112990EB	11-12-99/10:30	WRR003

PARAMETER	17697-14
Lead (6010)	
Lead, mg/l	0.0050U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Selenium (6010)	
Selenium, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Vanadium (6010)	
Vanadium, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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Sampled By: Client
Code: 145400113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-14	W3660041112990EB	11-12-99/10:30	WRR003

PARAMETER	17697-14
Zinc (6010)	
Zinc, mg/l	0.020U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Mercury (7470)	
Mercury, mg/l	0.00020U
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.20.99
Batch ID	1119U

Methods: EPA SW-846, Update III.

U = Not detected at the Reporting Limit.

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Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-8	SS36301211129900S	11-12-99/13:35	WRR003

PARAMETER	17697-8
Antimony (6010)	
Antimony, mg/kg dw	47
Dilution Factor	2.0
Prep Date	12.16.99
Analysis Date	12.20.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	2.1U
Dilution Factor	5.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	200E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-8	SS36301211129900S	11-12-99/13:35	WRR003

PARAMETER	17697-8
Beryllium (6010)	
Beryllium, mg/kg dw	0.55E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	2.1
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	6400
Dilution Factor	5.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A

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17697-8	SS36301211129900S	11-12-99/13:35	WRR003

PARAMETER	17697-8
Lead (6010)	
Lead, mg/kg dw	140
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.8
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	33
Dilution Factor	5.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A

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17697-8	SS36301211129900S	11-12-99/13:35	WRR003

PARAMETER	17697-8
Zinc (6010)	
Zinc, mg/kg dw	140
Dilution Factor	5.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.71
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	73

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-9	SS36100411129900S	11-12-99/14:20	WRR003

PARAMETER	17697-9
Antimony (6010)	
Antimony, mg/kg dw	4.8U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	6.8
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	220E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-9	SS36100411129900S	11-12-99/14:20	WRR003

PARAMETER	17697-9
Beryllium (6010)	
Beryllium, mg/kg dw	0.93E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	0.69U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	580
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-9	SS36100411129900S	11-12-99/14:20	WRR003

PARAMETER	17697-9
Lead (6010)	
Lead, mg/kg dw	35
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	47
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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LOG NO: S9-17697
Received: 13 NOV 99
Reported: 05 JAN 00

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Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-9	SS36100411129900S	11-12-99/14:20	WRR003

PARAMETER	17697-9
Zinc (6010)	
Zinc, mg/kg dw	100
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.069
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	69

Elizabeth F. Beauchamp, Project Manager

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Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-10	SS36101211129900S	11-12-99/14:30	WRR003

PARAMETER	17697-10
Antimony (6010)	
Antimony, mg/kg dw	5.8U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	11
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Barium (6010)	
Barium, mg/kg dw	230E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-10	SS36101211129900S	11-12-99/14:30	WRR003

PARAMETER	17697-10
Beryllium (6010)	
Beryllium, mg/kg dw	1.2E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	0.69U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Chromium (6010)	
Chromium, mg/kg dw	26
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-10	SS36101211129900S	11-12-99/14:30	WRR003

PARAMETER	17697-10
Lead (6010)	
Lead, mg/kg dw	17
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Vanadium (6010)	
Vanadium, mg/kg dw	45
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-10	SS36101211129900S	11-12-99/14:30	WRR003

PARAMETER	17697-10
Zinc (6010)	
Zinc, mg/kg dw	77
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kg dw	0.036
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124S
Percent Solids	69

Elizabeth P. Beauchamp, Project Manager

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Contract No.: S7219
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Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-11	SS36600111129900S	11-12-99/09:40	WRR003

PARAMETER	17697-11
pH in Soil (9045)	
pH, units	7.77
Prep Date	11.29.99
Analysis Date	11.29.99
Batch ID	1129Y
Organic Carbon (WALKLEY-BLACK), mg/kg dw	6700
Dilution Factor	1.0
Prep Date	12.07.99
Analysis Date	12.07.99
Batch ID	1207X
Percent Solids	82

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LOG NO: S9-17697
Received: 13 NOV 99
Reported: 05 JAN 00

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Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-12	SS36300111129900S	11-12-99/13:25	WRR003

PARAMETER	17697-12
pH in Soil (9045)	
pH, units	7.63
Prep Date	11.29.99
Analysis Date	11.29.99
Batch ID	1129Y
Organic Carbon (WALKLEY-BLACK), mg/kg dw	8700
Dilution Factor	1.0
Prep Date	12.17.99
Analysis Date	12.17.99
Batch ID	1217X
Percent Solids	67

Elizabeth F. Beauchamp, Project Manager

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Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-13	SS36600411129900S	11-12-99/09:40	WRR003

PARAMETER	17697-13
pH in Soil (9045)	
pH, units	7.82
Prep Date	11.29.99
Analysis Date	11.29.99
Batch ID	1129Y
Organic Carbon (WALKLEY-BLACK), mg/kg dw	18000
Dilution Factor	1.0
Prep Date	12.07.99
Analysis Date	12.07.99
Batch ID	1207X
Antimony (6010)	
Antimony, mg/kg dw	89
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.18.99
Batch ID	1216C
Arsenic (6010)	
Arsenic, mg/kg dw	6.5
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A

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Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-13	SS36600411129900S	11-12-99/09:40	WRR003

PARAMETER	17697-13
Barium (6010)	
Barium, mg/kg dw	400E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Beryllium (6010)	
Beryllium, mg/kg dw	0.90E
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Cadmium (6010)	
Cadmium, mg/kg dw	1.2
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-13	SS36600411129900S	11-12-99/09:40	WRR003

PARAMETER	17697-13
Chromium (6010)	
Chromium, mg/kg dw	3100
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Lead (6010)	
Lead, mg/kg dw	83
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A
Selenium (6010)	
Selenium, mg/kg dw	3.7
Dilution Factor	1.0
Prep Date	12.27.99
Analysis Date	12.28.99
Batch ID	1227A

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Sampled By: Client
Code: 170800111

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-13	SS36600411129900S	11-12-99/09:40	WRR003

PARAMETER	17697-13
Vanadium (6010)	
Vanadium, mg/kg dw	47
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Zinc (6010)	
Zinc, mg/kg dw	190
Dilution Factor	2.0
Prep Date	12.27.99
Analysis Date	12.29.99
Batch ID	1227A
Mercury (7471)	
Mercury, mg/kgdw	1.9
Dilution Factor	10
Prep Date	11.24.99
Analysis Date	11.26.99
Batch ID	1124S
Percent Solids	60

Elizabeth F. Beauchamp, Project Manager

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Received: 13 NOV 99
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Contract No.: S7219
Project: WRR003/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 145400113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-14	W3660041112990EB	11-12-99/10:30	WRR003

PARAMETER	17697-14
Antimony (6010)	
Antimony, mg/l	0.020U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Arsenic (6010)	
Arsenic, mg/l	0.0032U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Barium (6010)	
Barium, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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Sampled By: Client
Code: 145400113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-14	W3660041112990EB	11-12-99/10:30	WRR003

PARAMETER	17697-14
Beryllium (6010)	
Beryllium, mg/l	0.0014U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Cadmium (6010)	
Cadmium, mg/l	0.0050U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Chromium (6010)	
Chromium, mg/l	0.018
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-14	W3660041112990EB	11-12-99/10:30	WRR003

PARAMETER	17697-14
Lead (6010)	
Lead, mg/l	0.0050U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Selenium (6010)	
Selenium, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Vanadium (6010)	
Vanadium, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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Sampled By: Client
Code: 145400113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17697-14	W3660041112990EB	11-12-99/10:30	WRR003

PARAMETER	17697-14
Zinc (6010)	
Zinc, mg/l	0.020U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Mercury (7470)	
Mercury, mg/l	0.00020U
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.20.99
Batch ID	1119U

Methods: EPA SW-846, Update III.

U = Not detected at the Reporting Limit.

Elizabeth F. Beauchamp, Project Manager

ORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR004)
NO. OF SAMPLES/
MATRIX 8 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/28/00

DATA ASSESSMENT WORKSHEET

	(VOCs) Meth # 8260	(SVOCs) Meth # 8270	(PAHs) Meth # 8310	(DRO) Meth #8015	(GRO) Meth #8015M	(TOC) Meth # Walkley-Black
1. HOLDING TIMES	✓	✓	✓	✓	✓	✓
2. BLANKS	✓	✓	✓	✓	✓	✓
3. SURROGATES	✓	✓	(4)	✓	✓	N/A
4. SCS (LCS)	✓	✓	✓	✓	✓	✓
5. DCS (LSCD)	N/A	N/A	✓	N/A	N/A	N/A
6. MATIX SPIKE/DUP	✓	(2)	(5)	✓	(8)	N/A
7. DILUTIONS	✓	(3)	(6)	✓	✓	✓
8. DUPLICATES	(1)	✓	(7)	N/A	N/A	✓
9. OVERALL ASSESSMENT	O	O	O/X	O	O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (1) RPD duplicate results for samples SS305014 & SS305014D were high for xylenes & ethylbenzene. Therefore, since the samples are field dups, their associated compounds were estimated. (7) Duplicate results for samples SS305014 & SS305014D were high for anthracene, benzo(a)anthracene, crysene, fluoranthene, & phenanthrene. Therefore, since the samples are field dups, their associated compounds were estimated.

COMMENTS: (2) The % RPD was slightly high for 1,4-dichlorobenzene and 1,2,4-trichlorobenzene. However, since the LCS recoveries were within control limits, no action is necessary.
(3) Sample SS305004 was diluted by 6x's, however no action is necessary.
(4) Surrogate recoveries were outside limits for the MSD (SS305004) and samples SS305014 and SS305014D due to abundance of target analyte, or no recoveries at all due to dilutions. However, since the LCS/LCSD recoveries/RPDs were within control limits, no action is necessary.
(5) MS/MSD recoveries/RPDs for multiple compounds are outside limits due to abundance of target analyte. However, since the LCS/LCSD recoveries/RPDs were within limits, no action is necessary.
(6) Sample SS305014 was diluted by 10x's and SS305014D by 40x's, however no action is necessary.
(8) MS/MSD recoveries are outside limits. However, since the RPD & LCS recovery are within limits, no action is necessary.

INORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR004)
NO. OF SAMPLES/
MATRIX 8 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/28/00

DATA ASSESSMENT WORKSHEET

	(Metals) Meth # 6010	(Mercury) Meth # 7471	Meth #	(Cyanide) Meth # 9010	(Sulfide) Meth # 9030
1. HOLDING TIMES	✓	✓		✓	✓
2. BLANKS	✓	✓		✓	(14)
3. DUPLICATES	(9)	✓		(12)	✓
4. SCS (LCS)	✓	✓		✓	✓
5. DCS (LSCD)	N/A	N/A		(13)	(15)
6. MATIX SPIKE/DUP	(10)	✓		✓	✓
7. DILUTIONS	(11)	✓		✓	✓
8.	O	O		O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (9) The lab duplicate results for zinc in sample SS305004 exceeded the 20% limit. Therefore, all related results were qualified as estimated and estimated non-detect.
(14) Sulfide was detected in the method blank. Therefore, all detects <5x's the method blank results were qualified as non-detect.

COMMENTS: (10) The MS/MSD recoveries for lead & zinc exceeded control limits (SS305004). However, since the LCS recoveries were within control limits, no action is necessary.
(11) Serial dilutions for cadmium, nickel, and zinc were >10x's due to matrix interference. The lab qualified this data as estimated, however, no additional qualifiers have been added by us.
(13) The MS/MSD recoveries were low for our sample (SS305004), however they were within limits for the lab MS/MSD and the LCS/LCSD recovery/RPD were within limits, therefore, no action is necessary.
(15) The MS/MSD recoveries were outside control limits. However, since the LCS/LCSD recoveries were within control limits, no action is necessary.
(12) The duplicate results in the QA data were not our samples (another job). Therefore, even though the RPD was high, it does not reflect our samples, and no action is necessary.

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LOG NO: S9-17721
Received: 16 NOV 99
Reported: 13 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR004/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 150400113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-1	SS30500111159900S	11-15-99/09:00	WRR004

PARAMETER	17721-1
Volatiles by GC/MS (8260)	
Carbon disulfide, ug/kg dw	4.2U
Chloroform, ug/kg dw	4.2U
1,2-Dichloroethane, ug/kg dw	4.2U
2-Butanone (MEK), ug/kg dw	83U
Benzene, ug/kg dw	4.2U
Toluene, ug/kg dw	4.2U
Chlorobenzene, ug/kg dw	4.2U
Ethylbenzene, ug/kg dw	4.2U
Styrene, ug/kg dw	4.2U
Xylenes, Total, ug/kg dw	4.2U
1,2-Dibromoethane (EDB), ug/kg dw	4.2U
Surrogate - Toluene-d8	110 %
Surrogate - 4-Bromofluorobenzene	107 %
Surrogate - Dibromofluoromethane	95 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127

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17721-1	SS30500111159900S	11-15-99/09:00	WRR004

PARAMETER	17721-1
Acids and Base Neutrals (8270-APP9)	
bis(2-Ethylhexyl)phthalate, ug/kg dw	760U
Butylbenzylphthalate, ug/kg dw	760U
Cresol, m & p, ug/kg dw	760U
Cresol (ortho), ug/kg dw	760U
Di-n-butylphthalate, ug/kg dw	760U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	760U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	760U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	760U
Diethylphthalate, ug/kg dw	760U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	760U
2,4-Dimethylphenol, ug/kg dw	760U
Dimethylphthalate, ug/kg dw	760U
2,4-Dinitrophenol, ug/kg dw	3800U
1,4-Dioxane, ug/kg dw	760U
Phenol, ug/kg dw	760U
Pyridine, ug/kg dw	760U
1-Methylnaphthalene, ug/kg dw	760U
Quinoline, ug/kg dw	760U
Benzenethiol, ug/kg dw	760U
Surrogate - Phenol-d5	53 %
Surrogate - 2-Fluorophenol	60 %
Surrogate - 2,4,6-Tribromophenol	58 %

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17721-1	SS30500111159900S	11-15-99/09:00	WRR004

PARAMETER	17721-1
Surrogate - Nitrobenzene-d5	45 %
Surrogate - 2-Fluorobiphenyl	49 %
Surrogate - Terphenyl-d14	51 %
Dilution Factor	1.0
Prep Date	11.18.99
Analysis Date	11.20.99
Batch ID	1118A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-1	SS30500111159900S	11-15-99/09:00	WRR004

PARAMETER	17721-1
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	60U
Anthracene, ug/kg dw	8.1
Benzo(a)anthracene, ug/kg dw	22
Benzo(a)pyrene, ug/kg dw	27
Benzo(b)fluoranthene, ug/kg dw	24P
Benzo(g,h,i)perylene, ug/kg dw	65
Benzo(k)fluoranthene, ug/kg dw	6.8P
Chrysene, ug/kg dw	51
Dibenzo(a,h)anthracene, ug/kg dw	12U
Fluoranthene, ug/kg dw	34P
Fluorene, ug/kg dw	12U
Indeno(1,2,3-cd)pyrene, ug/kg dw	17P
Naphthalene, ug/kg dw	23U
Phenanthrene, ug/kg dw	57
Pyrene, ug/kg dw	73P
Surrogate - Terphenyl-d14	135 %
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	12.01.99
Batch ID	1124J

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17721-1	SS30500111159900S	11-15-99/09:00	WRR004

PARAMETER	17721-1
Mercury (7471)	
Mercury, mg/kg dw	0.26
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Antimony (6010)	
Antimony, mg/kg dw	4.2U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.21.99
Batch ID	1216D
Arsenic (6010)	
Arsenic, mg/kg dw	6.2
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-1	SS30500111159900S	11-15-99/09:00	WRR004

PARAMETER	17721-1
Barium (6010)	
Barium, mg/kg dw	170
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Beryllium (6010)	
Beryllium, mg/kg dw	0.85
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Cadmium (6010)	
Cadmium, mg/kg dw	0.64E
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-1	SS30500111159900S	11-15-99/09:00	WRR004

PARAMETER	17721-1
Chromium (6010)	
Chromium, mg/kg dw	22
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Cobalt (6010)	
Cobalt, mg/kg dw	7.9
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Lead (6010)	
Lead, mg/kg dw	40
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-1	SS30500111159900S	11-15-99/09:00	WRR004

PARAMETER	17721-1
Nickel (6010)	
Nickel, mg/kg dw	24E
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Selenium (6010)	
Selenium, mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Vanadium (6010)	
Vanadium, mg/kg dw	41
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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PARAMETER	17721-1	
Zinc (6010)		
Zinc, mg/kg dw	130E*	J
Dilution Factor	1.0	
Prep Date	11.26.99	
Analysis Date	01.03.00	
Batch ID	1126C	
Cyanide (9010)		
Cyanide, Total, mg/kg dw	1.2U	
Dilution Factor	1.0	
Prep Date	11.24.99	
Analysis Date	11.24.99	
Batch ID	1124T	
Percent Solids	86	

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-3	SS30500411159900S	11-15-99/09:05	WRR004

PARAMETER	17721-3
Organic Carbon (WALKLEY-BLACK), mg/kg dw	23000
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202X
pH in Soil (9045)	
pH, units	7.75
Prep Date	12.06.99
Analysis Date	12.06.99
Batch ID	1206Z
Antimony (6010)	
Antimony, mg/kg dw	4.5U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.21.99
Batch ID	1216D
Arsenic (6010)	
Arsenic, mg/kg dw	8.2
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-3	SS30500411159900S	11-15-99/09:05	WRR004

PARAMETER	17721-3
Barium (6010)	
Barium, mg/kg dw	140
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Beryllium (6010)	
Beryllium, mg/kg dw	1.3
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Cadmium (6010)	
Cadmium, mg/kg dw	1.3E
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-3	SS30500411159900S	11-15-99/09:05	WRR004

PARAMETER	17721-3
Cobalt (6010)	
Cobalt, mg/kg dw	7.3
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Chromium (6010)	
Chromium, mg/kg dw	20
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Nickel (6010)	
Nickel, mg/kg dw	31E
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-3	SS30500411159900S	11-15-99/09:05	WRR004

PARAMETER	17721-3
Lead (6010)	
Lead, mg/kg dw	160
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Selenium (6010)	
Selenium, mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Vanadium (6010)	
Vanadium, mg/kg dw	34
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-3	SS30500411159900S	11-15-99/09:05	WRR004

PARAMETER	17721-3
Zinc (6010)	
Zinc, mg/kg dw	180E* J
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Mercury (7471)	
Mercury, mg/kg dw	0.28
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R

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PARAMETER	17721-3
Volatiles by GC/MS (8260)	
Carbon disulfide, ug/kg dw	5.9U
Chloroform, ug/kg dw	5.9U
1,2-Dichloroethane, ug/kg dw	5.9U
2-Butanone (MEK), ug/kg dw	120U
Benzene, ug/kg dw	5.9U
Toluene, ug/kg dw	5.9U
Chlorobenzene, ug/kg dw	5.9U
Ethylbenzene, ug/kg dw	5.9U
Styrene, ug/kg dw	5.9U
Xylenes, Total, ug/kg dw	5.9U
1,2-Dibromoethane (EDB), ug/kg dw	5.9U
Surrogate - Toluene-d8	108 %
Surrogate - 4-Bromofluorobenzene	112 %
Surrogate - Dibromofluoromethane	98 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127

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17721-3	SS30500411159900S	11-15-99/09:05	WRR004

PARAMETER	17721-3
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	60U
Anthracene, ug/kg dw	9.6
Benzo(a)anthracene, ug/kg dw	24P
Benzo(a)pyrene, ug/kg dw	23
Benzo(b)fluoranthene, ug/kg dw	11
Benzo(g,h,i)perylene, ug/kg dw	31
Benzo(k)fluoranthene, ug/kg dw	4.8U
Chrysene, ug/kg dw	45P
Dibenzo(a,h)anthracene, ug/kg dw	12U
Fluoranthene, ug/kg dw	49P
Fluorene, ug/kg dw	12U
Indeno(1,2,3-cd)pyrene, ug/kg dw	12U
Naphthalene, ug/kg dw	24U
Phenanthrene, ug/kg dw	54
Pyrene, ug/kg dw	93P
Surrogate - Terphenyl-d14	140 %
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	12.02.99
Batch ID	1124J

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17721-3	SS30500411159900S	11-15-99/09:05	WRR004

PARAMETER	17721-3
Acids and Base Neutrals (8270-APP9)	
bis(2-Ethylhexyl)phthalate, ug/kg dw	4200U
Butylbenzylphthalate, ug/kg dw	4200U
Cresol, m & p, ug/kg dw	4200U
Cresol (ortho), ug/kg dw	4200U
Di-n-butylphthalate, ug/kg dw	4200U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	4200U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	4200U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	4200U
Diethylphthalate, ug/kg dw	4200U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	4200U
2,4-Dimethylphenol, ug/kg dw	4200U
Dimethylphthalate, ug/kg dw	4200U
2,4-Dinitrophenol, ug/kg dw	21000U
1,4-Dioxane, ug/kg dw	4200U
Phenol, ug/kg dw	4200U
Pyridine, ug/kg dw	4200U
1-Methylnaphthalene, ug/kg dw	4200U
Quinoline, ug/kg dw	4200U
Benzenethiol, ug/kg dw	4200U
Surrogate - Phenol-d5	67 %
Surrogate - 2-Fluorophenol	76 %
Surrogate - 2,4,6-Tribromophenol	67 %

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Code: 150500113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-3	SS30500411159900S	11-15-99/09:05	WRR004

PARAMETER	17721-3
Surrogate - Nitrobenzene-d5	48 %
Surrogate - 2-Fluorobiphenyl	61 %
Surrogate - Terphenyl-d14	64 %
Dilution Factor	6.0
Prep Date	11.18.99
Analysis Date	11.21.99
Batch ID	1118A
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124T
Percent Solids	81

Elizabeth F. Beauchamp, Project Manager

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LOG NO: S9-17721
Received: 16 NOV 99
Reported: 13 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR004/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 150500113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-4	SS30501411159900S	11-15-99/09:20	WRR004

PARAMETER	17721-4
Organic Carbon (WALKLEY-BLACK), mg/kg dw	2400
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202X
pH in Soil (9045)	
pH, units	7.84
Prep Date	12.06.99
Analysis Date	12.06.99
Batch ID	1206Z
Antimony (6010)	
Antimony, mg/kg dw	4.7U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.21.99
Batch ID	1216D
Arsenic (6010)	
Arsenic, mg/kg dw	6.3
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-4	SS30501411159900S	11-15-99/09:20	WRR004

PARAMETER	17721-4
Barium (6010)	
Barium, mg/kg dw	290
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Beryllium (6010)	
Beryllium, mg/kg dw	1.0
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Cadmium (6010)	
Cadmium, mg/kg dw	0.66E
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-4	SS30501411159900S	11-15-99/09:20	WRR004

PARAMETER	17721-4
Cobalt (6010)	
Cobalt, mg/kg dw	9.1
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Chromium (6010)	
Chromium, mg/kg dw	20
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Nickel (6010)	
Nickel, mg/kg dw	24E
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-4	SS30501411159900S	11-15-99/09:20	WRR004

PARAMETER	17721-4
Lead (6010)	
Lead, mg/kg dw	15
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Selenium (6010)	
Selenium, mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Vanadium (6010)	
Vanadium, mg/kg dw	35
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-4	SS30501411159900S	11-15-99/09:20	WRR004

PARAMETER	17721-4
Zinc (6010)	
Zinc, mg/kg dw	79E* J
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Mercury (7471)	
Mercury, mg/kg dw	0.039
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-4	SS30501411159900S	11-15-99/09:20	WRR004

PARAMETER	17721-4
Volatiles by GC/MS (8260)	
Carbon disulfide, ug/kg dw	6.4U
Chloroform, ug/kg dw	6.4U
1,2-Dichloroethane, ug/kg dw	6.4U
2-Butanone (MEK), ug/kg dw	130U
Benzene, ug/kg dw	20
Toluene, ug/kg dw	18
Chlorobenzene, ug/kg dw	6.4U
Ethylbenzene, ug/kg dw	160 J
Styrene, ug/kg dw	6.4U
Xylenes, Total, ug/kg dw	310 J
1,2-Dibromoethane (EDB), ug/kg dw	6.4U
Surrogate - Toluene-d8	103 %
Surrogate - 4-Bromofluorobenzene	98 %
Surrogate - Dibromofluoromethane	105 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-4	SS30501411159900S	11-15-99/09:20	WRR004

PARAMETER	17721-4
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	650U
Anthracene, ug/kg dw	170J
Benzo(a)anthracene, ug/kg dw	110J
Benzo(a)pyrene, ug/kg dw	52U
Benzo(b)fluoranthene, ug/kg dw	56P
Benzo(g,h,i)perylene, ug/kg dw	130U
Benzo(k)fluoranthene, ug/kg dw	52U
Chrysene, ug/kg dw	200J
Dibenzo(a,h)anthracene, ug/kg dw	130U
Fluoranthene, ug/kg dw	400PJ
Fluorene, ug/kg dw	130U
Indeno(1,2,3-cd)pyrene, ug/kg dw	130U
Naphthalene, ug/kg dw	260U
Phenanthrene, ug/kg dw	550J
Pyrene, ug/kg dw	840P
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.24.99
Analysis Date	12.02.99
Batch ID	1124J

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-4	SS30501411159900S	11-15-99/09:20	WRR004

PARAMETER	17721-4
Acids and Base Neutrals (8270-APP9)	
bis(2-Ethylhexyl)phthalate, ug/kg dw	850U
Butylbenzylphthalate, ug/kg dw	850U
Cresol, m & p, ug/kg dw	850U
Cresol (ortho), ug/kg dw	850U
Di-n-butylphthalate, ug/kg dw	850U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	850U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	850U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	850U
Diethylphthalate, ug/kg dw	850U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	850U
2,4-Dimethylphenol, ug/kg dw	850U
Dimethylphthalate, ug/kg dw	850U
2,4-Dinitrophenol, ug/kg dw	4200U
1,4-Dioxane, ug/kg dw	850U
Phenol, ug/kg dw	850U
Pyridine, ug/kg dw	850U
1-Methylnaphthalene, ug/kg dw	850U
Quinoline, ug/kg dw	850U
Benzenethiol, ug/kg dw	850U
Surrogate - Phenol-d5	58 %
Surrogate - 2-Fluorophenol	67 %
Surrogate - 2,4,6-Tribromophenol	65 %

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17721-4	SS30501411159900S	11-15-99/09:20	WRR004

PARAMETER	17721-4
Surrogate - Nitrobenzene-d5	48 %
Surrogate - 2-Fluorobiphenyl	62 %
Surrogate - Terphenyl-d14	57 %
Dilution Factor	1.0
Prep Date	11.18.99
Analysis Date	11.21.99
Batch ID	1118A
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124T
Percent Solids	77

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-2	SS30501411159900D	11-15-99/09:20	WRR004

PARAMETER	17721-2
Volatiles by GC/MS (8260)	
Carbon disulfide, ug/kg dw	6.6U
Chloroform, ug/kg dw	6.6U
1,2-Dichloroethane, ug/kg dw	6.6U
2-Butanone (MEK), ug/kg dw	130U
Benzene, ug/kg dw	6.6U
Toluene, ug/kg dw	6.6U
Chlorobenzene, ug/kg dw	6.6U
Ethylbenzene, ug/kg dw	6.6U UJ
Styrene, ug/kg dw	6.6U
Xylenes, Total, ug/kg dw	6.6U UJ
1,2-Dibromoethane (EDB), ug/kg dw	6.6U
Surrogate - Toluene-d8	103 %
Surrogate - 4-Bromofluorobenzene	108 %
Surrogate - Dibromofluoromethane	98 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-2	SS30501411159900D	11-15-99/09:20	WRR004

PARAMETER	17721-2
Acids and Base Neutrals (8270-APP9)	
bis(2-Ethylhexyl)phthalate, ug/kg dw	910U
Butylbenzylphthalate, ug/kg dw	910U
Cresol, m & p, ug/kg dw	910U
Cresol (ortho), ug/kg dw	910U
Di-n-butylphthalate, ug/kg dw	910U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	910U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	910U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	910U
Diethylphthalate, ug/kg dw	910U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	910U
2,4-Dimethylphenol, ug/kg dw	910U
Dimethylphthalate, ug/kg dw	910U
2,4-Dinitrophenol, ug/kg dw	4600U
1,4-Dioxane, ug/kg dw	910U
Phenol, ug/kg dw	910U
Pyridine, ug/kg dw	910U
1-Methylnaphthalene, ug/kg dw	1000
Quinoline, ug/kg dw	910U
Benzenethiol, ug/kg dw	910U
Surrogate - Phenol-d5	46 %
Surrogate - 2-Fluorophenol	52 %
Surrogate - 2,4,6-Tribromophenol	56 %

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-2	SS30501411159900D	11-15-99/09:20	WRR004

PARAMETER	17721-2
Surrogate - Nitrobenzene-d5	40 %
Surrogate - 2-Fluorobiphenyl	52 %
Surrogate - Terphenyl-d14	52 %
Dilution Factor	1.0
Prep Date	11.18.99
Analysis Date	11.20.99
Batch ID	1118A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-2	SS30501411159900D	11-15-99/09:20	WRR004

PARAMETER	17721-2
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	2800U
Anthracene, ug/kg dw	520J
Benzo(a)anthracene, ug/kg dw	530J
Benzo(a)pyrene, ug/kg dw	270
Benzo(b)fluoranthene, ug/kg dw	220U
Benzo(g,h,i)perylene, ug/kg dw	550U
Benzo(k)fluoranthene, ug/kg dw	220U
Chrysene, ug/kg dw	730PJ
Dibenzo(a,h)anthracene, ug/kg dw	550U
Fluoranthene, ug/kg dw	1400PJ
Fluorene, ug/kg dw	550U
Indeno(1,2,3-cd)pyrene, ug/kg dw	550U
Naphthalene, ug/kg dw	1100U
Phenanthrene, ug/kg dw	1800J
Pyrene, ug/kg dw	2000P
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	40.0
Prep Date	11.24.99
Analysis Date	12.02.99
Batch ID	1124J

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-2	SS30501411159900D	11-15-99/09:20	WRR004

PARAMETER	17721-2
Mercury (7471)	
Mercury, mg/kg dw	0.056
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Antimony (6010)	
Antimony, mg/kg dw	5.6U
Dilution Factor	1.0
Prep Date	12.16.99
Analysis Date	12.21.99
Batch ID	1216D
Arsenic (6010)	
Arsenic, mg/kg dw	8.1
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-2	SS30501411159900D	11-15-99/09:20	WRR004

PARAMETER	17721-2
Barium (6010)	
Barium, mg/kg dw	260
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Beryllium (6010)	
Beryllium, mg/kg dw	1.1
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Cadmium (6010)	
Cadmium, mg/kg dw	1.2E
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-2	SS30501411159900D	11-15-99/09:20	WRR004

PARAMETER	17721-2
Chromium (6010)	
Chromium, mg/kg dw	20
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Cobalt (6010)	
Cobalt, mg/kg dw	11
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Lead (6010)	
Lead, mg/kg dw	22
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17721-2	SS30501411159900D	11-15-99/09:20	WRR004

PARAMETER	17721-2
Nickel (6010)	
Nickel, mg/kg dw	26E
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Selenium (6010)	
Selenium, mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Vanadium (6010)	
Vanadium, mg/kg dw	34
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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Received: 16 NOV 99
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Ms. Heather Halderman
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2318 Millpark Drive
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Contract No.: S7219
Project: WRR004/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 150500113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-2	SS30501411159900D	11-15-99/09:20	WRR004

PARAMETER	17721-2
Zinc (6010)	
Zinc, mg/kg dw	86E* J
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124T
Percent Solids	72

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-5	SS31901211159900S	11-15-99/11:50	WRR004

PARAMETER	17721-5
Volatiles by GC/MS (8260)	
Benzene, ug/kg dw	5.9U
Toluene, ug/kg dw	5.9U
Ethylbenzene, ug/kg dw	5.9U
Xylenes, Total, ug/kg dw	5.9U
Surrogate - Toluene-d8	107 %
Surrogate - 4-Bromofluorobenzene	112 %
Surrogate - Dibromofluoromethane	102 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, mg/kg dw	290U
Surrogate - a,a,a-Trifluorotoluene	135 %
Dilution Factor	1.0
Analysis Date	11.18.99
Batch ID	1A1118
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	4.2U
Surrogate - o-Terphenyl	69 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.22.99
Batch ID	1119U

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Sampled By: Client
Code: 150500113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-5	SS31901211159900S	11-15-99/11:50	WRR004

PARAMETER	17721-5
Percent Solids	78

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Sampled By: Client
Code: 150500113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-6	SS32001211159900S	11-15-99/14:10	WRR004

PARAMETER	17721-6
Volatiles by GC/MS (8260)	
Benzene, ug/kg dw	5.8U
Toluene, ug/kg dw	5.8U
Ethylbenzene, ug/kg dw	5.8U
Xylenes, Total, ug/kg dw	5.8U
Surrogate - Toluene-d8	109 %
Surrogate - 4-Bromofluorobenzene	109 %
Surrogate - Dibromofluoromethane	102 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, mg/kg dw	280U
Surrogate - a,a,a-Trifluorotoluene	118 %
Dilution Factor	1.0
Analysis Date	11.18.99
Batch ID	1A1118
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	4.0U
Surrogate - o-Terphenyl	76 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.22.99
Batch ID	1119U

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Sampled By: Client
Code: 150500113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-6	SS32001211159900S	11-15-99/14:10	WRR004

PARAMETER	17721-6
Percent Solids	81

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Sampled By: Client
Code: 150500113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-7	SS32300411159900S	11-15-99/15:30	WRR004

PARAMETER	17721-7
Mercury (7471)	
Mercury, mg/kg dw	0.040
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-7	SS32300411159900S	11-15-99/15:30	WRR004

PARAMETER	17721-7		
Metals (6010)			
Antimony, mg/kg dw	4.8U		
Arsenic, mg/kg dw	4.9		
Barium, mg/kg dw	260		
Beryllium, mg/kg dw	1.1		
Cadmium, mg/kg dw	0.66UE		
Chromium, mg/kg dw	26		
Cobalt, mg/kg dw	9.2		
Copper, mg/kg dw	26N		
Nickel, mg/kg dw	34E		
Lead, mg/kg dw	19		
Selenium, mg/kg dw	1.3U		
Silver, mg/kg dw	1.3U		
Tin, mg/kg dw	6.6U		
Thallium, mg/kg dw	1.3U		
Vanadium, mg/kg dw	36		
Zinc, mg/kg dw	77E*	J	
Dilution Factor	1.0		
Prep Date	11.26.99		
Analysis Date	01.03.00		
Batch ID	1126C		

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Sampled By: Client
Code: 150500113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-7	SS323004111599005	11-15-99/15:30	WRR004

PARAMETER	17721-7
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124T
Sulfide (9030), mg/kg dw	33U
Dilution Factor	1
Prep Date	11.18.99
Analysis Date	11.18.99
Batch ID	1118A
Percent Solids	76

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Sampled By: Client
Code: 150600113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-8	SS32301211159900S	11-15-99/15:40	WRR004

PARAMETER	17721-8
Mercury (7471)	
Mercury, mg/kg dw	0.048
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R

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Sampled By: Client
Code: 150600113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-8	SS32301211159900S	11-15-99/15:40	WRR004

PARAMETER	17721-8
Metals (6010)	
Antimony, mg/kg dw	4.9U
Arsenic, mg/kg dw	15
Barium, mg/kg dw	290
Beryllium, mg/kg dw	0.46
Cadmium, mg/kg dw	0.68UE
Chromium, mg/kg dw	400
Cobalt, mg/kg dw	5.5
Copper, mg/kg dw	21N
Nickel, mg/kg dw	14E
Lead, mg/kg dw	14
Selenium, mg/kg dw	1.4U
Silver, mg/kg dw	1.4U
Tin, mg/kg dw	6.8U
Thallium, mg/kg dw	1.4U
Vanadium, mg/kg dw	37
Zinc, mg/kg dw	66E*
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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Contract No.: S7219
Project: WRR004/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 150600113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-8	SS323012111599 00S	11-15-99/15:40	WRR004

PARAMETER	17721-8
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	11.24.99
Batch ID	1124T
Sulfide (9030), mg/kg dw	50U
Dilution Factor	1
Prep Date	11.18.99
Analysis Date	11.18.99
Batch ID	1118A
Percent Solids	74

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Contract No.: S7219
Project: WRR004/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 171900411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-8-RE	SS32301211159900S	11-15-99/15:40	WRR004

PARAMETER	17721-8-RE
Sulfide (9030), mg/kg dw	34U
Dilution Factor	1
Prep Date	12.03.99
Analysis Date	12.07.99
Batch ID	1203A

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Sampled By: Client
Code: 150600113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-10	W3050051115990EB	11-15-99/10:00	WRR004

PARAMETER	17721-10
Volatiles by GC/MS (8260)	
Carbon disulfide, ug/l	5.0U
Chloroform, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
2-Butanone (MEK), ug/l	100U
Benzene, ug/l	5.0U
Toluene, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Styrene, ug/l	5.0U
Xylenes, Total, ug/l	5.0U
1,2-Dibromoethane (EDB), ug/l	5.0U
Surrogate - Toluene-d8	110 %
Surrogate - 4-Bromofluorobenzene	104 %
Surrogate - Dibromofluoromethane	100 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-10	W3050051115990EB	11-15-99/10:00	WRR004

PARAMETER	17721-10
Acids and Base Neutrals (8270-APP9)	
bis(2-Ethylhexyl)phthalate, ug/l	10U
Butylbenzylphthalate, ug/l	10U
Cresol, m & p, ug/l	10U
Cresol (ortho), ug/l	10U
Di-n-butylphthalate, ug/l	10U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/l	10U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/l	10U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/l	10U
Diethylphthalate, ug/l	10U
7,12-Dimethylbenz(a)anthracene, ug/l	10U
2,4-Dimethylphenol, ug/l	10U
Dimethylphthalate, ug/l	10U
2,4-Dinitrophenol, ug/l	50U
1,4-Dioxane, ug/l	10U
Phenol, ug/l	10U
Pyridine, ug/l	50U
1-Methylnaphthalene, ug/l	10U
Quinoline, ug/l	50U
Benzenethiol, ug/l	50U
Surrogate - Phenol-d5	85 %
Surrogate - 2-Fluorophenol	88 %
Surrogate - 2,4,6-Tribromophenol	100 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-10	W3050051115990EB	11-15-99/10:00	WRR004

PARAMETER	17721-10
Surrogate - Nitrobenzene-d5	94 %
Surrogate - 2-Fluorobiphenyl	88 %
Surrogate - Terphenyl-d14	100 %
Dilution Factor	1.0
Prep Date	11.18.99
Analysis Date	11.22.99
Batch ID	1118F

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-10	W3050051115990EB	11-15-99/10:00	WRR004

PARAMETER	17721-10
Polynuclear Aromatics (8310)	
Acenaphthene, ug/l	1.0U
Anthracene, ug/l	0.20U
Benzo(a)anthracene, ug/l	0.20U
Benzo(a)pyrene, ug/l	0.20U
Benzo(b)fluoranthene, ug/l	0.20U
Benzo(g,h,i)perylene, ug/l	0.50U
Benzo(k)fluoranthene, ug/l	0.20U
Chrysene, ug/l	0.20U
Dibenzo(a,h)anthracene, ug/l	0.20U
Fluoranthene, ug/l	0.50U
Fluorene, ug/l	0.50U
Indeno(1,2,3-cd)pyrene, ug/l	0.20U
Naphthalene, ug/l	1.0U
Phenanthrene, ug/l	0.20U
Pyrene, ug/l	0.50U
Surrogate - Terphenyl-d14	72 %
Dilution Factor	1.0
Prep Date	11.18.99
Analysis Date	11.27.99
Batch ID	1118J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-10	W3050051115990EB	11-15-99/10:00	WRR004

PARAMETER	17721-10
Mercury (7470)	
Mercury, mg/l	0.00020U
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.20.99
Batch ID	1119U
Antimony (6010)	
Antimony, mg/l	0.020U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Arsenic (6010)	
Arsenic, mg/l	0.0032U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-10	W3050051115990EB	11-15-99/10:00	WRR004

PARAMETER	17721-10
Barium (6010)	
Barium, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Beryllium (6010)	
Beryllium, mg/l	0.0014U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Cadmium (6010)	
Cadmium, mg/l	0.0050U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-10	W3050051115990EB	11-15-99/10:00	WRR004

PARAMETER	17721-10
Chromium (6010)	
Chromium, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Cobalt (6010)	
Cobalt, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Lead (6010)	
Lead, mg/l	0.0050U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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LOG NO: S9-17721
Received: 16 NOV 99
Reported: 13 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR004/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 150600113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-10	W3050051115990EB	11-15-99/10:00	WRR004

PARAMETER	17721-10
Nickel (6010)	
Nickel, mg/l	0.040U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Selenium (6010)	
Selenium, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H
Vanadium (6010)	
Vanadium, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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Sampled By: Client
Code: 150600113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-10	W3050051115990EB	11-15-99/10:00	WRR004

PARAMETER	17721-10	
Zinc (6010)		
Zinc, mg/l	0.020U	UJ
Dilution Factor	1.0	
Prep Date	11.30.99	
Analysis Date	12.17.99	
Batch ID	1130H	
Cyanide (9010)		
Cyanide, Total, mg/l	0.010U	
Dilution Factor	1.0	
Prep Date	11.24.99	
Analysis Date	11.24.99	
Batch ID	1124T	

Methods: EPA SW-846, Update III.

Elizabeth F. Beauchamp, Project Manager

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Sampled By: Client
Code: 150600113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-9	W3200061115990EB	11-15-99/15:00	WRR004

PARAMETER	17721-9
Volatiles by GC/MS (8260)	
Benzene, ug/l	5.0U
Toluene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Xylenes, Total, ug/l	5.0U
Surrogate - Toluene-d8	108 %
Surrogate - 4-Bromofluorobenzene	104 %
Surrogate - Dibromofluoromethane	100 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/l	0.10U
Surrogate - o-Terphenyl	100 %
Dilution Factor	1.0
Prep Date	11.18.99
Analysis Date	11.22.99
Batch ID	1118U
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, mg/l	50U
Surrogate - a,a,a-Trifluorotoluene	120 %
Dilution Factor	1.0
Analysis Date	11.23.99
Batch ID	1D1123

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Sampled By: Client
Code: 150600113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-11	TB010	11-15-99	WRR004

PARAMETER	17721-11
Volatiles by GC/MS (8260)	
Carbon disulfide, ug/l	5.0U
Chloroform, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
2-Butanone (MEK), ug/l	100U
Benzene, ug/l	5.0U
Toluene, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Styrene, ug/l	5.0U
Xylenes, Total, ug/l	5.0U
1,2-Dibromoethane (EDB), ug/l	5.0U
Surrogate - Toluene-d8	110 %
Surrogate - 4-Bromofluorobenzene	108 %
Surrogate - Dibromofluoromethane	100 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127

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Contract No.: S7219
Project: WRR004/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 150600113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17721-12	TB011	11-15-99	WRR004

PARAMETER	17721-12
Volatiles by GC/MS (8260)	
Carbon disulfide, ug/l	5.0U
Chloroform, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
2-Butanone (MEK), ug/l	100U
Benzene, ug/l	5.0U
Toluene, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Styrene, ug/l	5.0U
Xylenes, Total, ug/l	5.0U
1,2-Dibromoethane (EDB), ug/l	5.0U
Surrogate - Toluene-d8	112 %
Surrogate - 4-Bromofluorobenzene	104 %
Surrogate - Dibromofluoromethane	102 %
Dilution Factor	1.0
Analysis Date	11.27.99
Batch ID	1M1127

Elizabeth F. Beauchamp, Project Manager

ORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR005)
NO. OF SAMPLES/
MATRIX 12 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/24/00

DATA ASSESSMENT WORKSHEET

	(VOCs) Meth # 8260	(SVOCs) Meth # 8270	(PAHs) Meth # 8310	(DRO) Meth #8015	(GRO) Meth #8015M	(TOC) Meth # Walkley-Black
1. HOLDING TIMES	✓	✓	✓	✓	✓	✓
2. BLANKS	✓	✓	✓	✓	✓	✓
3. SURROGATES	✓	✓	(4)	(8)	(11)	N/A
4. SCS (LCS)	✓	✓	✓	✓	✓	✓
5. DCS (LSCD)	N/A	N/A	✓	N/A	N/A	N/A
6. MATIX SPIKE/DUP	(1)	(2)	(5)	(9)	✓	N/A
7. DILUTIONS	✓	(3)	(6)	(10)	✓	✓
8. DUPLICATES	✓	✓	(7)	✓	✓	✓
9. OVERALL ASSESSMENT	O	O	O/X	O/X	O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (7) Pyrene field duplicate results for samples SS329001 & SS329001D exceeded acceptance limits. Therefore, since the samples are field dups, only the pyrene in these samples was qualified as estimated.

COMMENTS: (1) The MS % recovery for chlorobenzene and the RPD for toluene and chlorobenzene were outside limits. However, since the LCS recoveries were within limits, no action is necessary.
(2) The MSD % recovery for pyrene was outside limits. However, since the RPD & LCS recovery are within limits, no action is necessary.
(3) Sample SS335001 was diluted by 5x's, however no action is necessary.
(4) Surrogate recoveries of TPH were outside limits for samples SS335001, SS335005,SS335005(DL) SS328001, SS329001, and SS329001D due to matrix interference. However, since the LCS/LCSD recoveries/RPDs were within control limits, no action is necessary.

ORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR005)
NO. OF SAMPLES/
MATRIX 12 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/24/00

COMMENTS (continued): (5) MS/SMD recoveries were outside limits for various compounds due to matrix interference. However, since the LCS/LCSD recoveries/RPDs were within control limits, no action is necessary.
(6) Samples SS335001, SS335005, SS329001, and SS329001D were all diluted by 10x's, and sample SS335005 also required a 40x's dilution, however no action is necessary.
(8) Surrogate recoveries were outside limits for the MS/MSD (SS328001), and samples SS328001, SS329001, and SS329001D due to abundance of target analyte, or no recoveries at all due to dilutions. However, since the LCS recovery was within control limits, no action is necessary.
(9) MS/MSD recoveries were outside limits for samples SS328001, SS329001, and SS329001D due to abundance of target analyte, or no recoveries at all due to dilutions. However, since the LCS recovery was within control limits, no action is necessary.
(10) Samples SS328001, SS328016, SS329001, and SS329001D were all diluted by 20x's, however no action is necessary.
(11) Surrogate recoveries were outside limits for samples SS328001 and SS329001 due to abundance of target analyte. However, results for both samples were non-detect. Therefore, no action is necessary.

INORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR005)
NO. OF SAMPLES/
MATRIX 12 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/24/00

DATA ASSESSMENT WORKSHEET

	(Metals) Meth # 6010	(Mercury) Meth # 7471	Meth #	(Cyanide) Meth # 9010	(Sulfide) Meth # 9030
1. HOLDING TIMES	✓	✓		✓	✓
2. BLANKS	✓	✓		(16)	✓
3. DUPLICATES	(12)	✓		✓	✓
4. SCS (LCS)	✓	✓		✓	✓
5. DCS (LSCD)	N/A	N/A		N/A	✓
6. MATIX SPIKE/DUP	(13)	(15)		(17)	(18)
7. DILUTIONS	(14)	✓		✓	✓
8.	O	O		O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (12) Chromium field duplicate results for samples SS324004 & SS324004D exceeded acceptance limits. Therefore, since the samples are field dups, only the chromium in these samples was qualified as estimated.

COMMENTS: (13) The MS/MSD recoveries are outside limits for chromium due to elevated levels of target analyte. However, the spike amount added in <4x's the original sample result. Therefore, the % recovery does not apply, and no action is necessary.
(14) Serial dilutions for beryllium, chromium, and cobalt were >10x's due to matrix interference. The lab qualified this data as estimated, however, no additional qualifiers have been added by us.
(15) The MS/MSD recoveries are below control limits. However, since the LCS recoveries were within control limits, no action is necessary.
(16) Cyanide was detected in method blank 1125S, however, all results were non-detect, so no action is necessary.
(17) One of the two MS/MSD % recoveries was outside limits. However, the MS/MSD done on our sample (SS328001), as well as the LCS recovery, were within limits. Therefore, no action is necessary.
(18) The MS % recovery was outside control limits. However, since the LCS recovery was within limits, no action is necessary.

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LOG NO: S9-17757
Received: 17 NOV 99
Reported: 14 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	160U
Acetone, ug/kg dw	39U
Benzene, ug/kg dw	3.9U
Bromodichloromethane, ug/kg dw	3.9U
Bromomethane (Methyl bromide), ug/kg dw	7.9U
Carbon disulfide, ug/kg dw	3.9U
Chlorobenzene, ug/kg dw	3.9U
Dibromochloromethane, ug/kg dw	3.9U
Chloroethane, ug/kg dw	7.9U
Chloromethane (Methyl chloride), ug/kg dw	7.9U
Chloroform, ug/kg dw	3.9U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	3.9U
Chloroprene, ug/kg dw	3.9U
1,2-Dibromo-3-chloropropane, ug/kg dw	7.9U
1,2-Dibromoethane (EDB), ug/kg dw	3.9U
trans-1,4-Dichloro-2-butene, ug/kg dw	3.9U
Dichlorodifluoromethane, ug/kg dw	3.9U
1,1-Dichloroethane, ug/kg dw	3.9U
1,2-Dichloroethane, ug/kg dw	3.9U
cis-1,2-Dichloroethene, ug/kg dw	3.9U
trans-1,2-Dichloroethene, ug/kg dw	3.9U
1,1-Dichloroethylene, ug/kg dw	3.9U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1
Methylene chloride (Dichloromethane), ug/kg dw	3.9U
1,2-Dichloropropane, ug/kg dw	3.9U
cis-1,3-Dichloropropene, ug/kg dw	3.9U
trans-1,3-Dichloropropene, ug/kg dw	3.9U
Ethylbenzene, ug/kg dw	3.9U
Methyl ethyl ketone, ug/kg dw	20U
Iodomethane (Methyl iodide), ug/kg dw	3.9U
Methacrylonitrile, ug/kg dw	79U
4-Methyl-2-pentanone (MIBK), ug/kg dw	20U
Pentachloroethane, ug/kg dw	20U
Styrene, ug/kg dw	3.9U
1,1,1,2-Tetrachloroethane, ug/kg dw	3.9U
1,1,2,2-Tetrachloroethane, ug/kg dw	3.9U
Tetrachloroethene, ug/kg dw	3.9U
Carbon tetrachloride, ug/kg dw	3.9U
Toluene, ug/kg dw	3.9U
Bromoform, ug/kg dw	3.9U
1,1,2-Trichloroethane, ug/kg dw	3.9U
1,1,1-Trichloroethane, ug/kg dw	3.9U
Trichloroethene, ug/kg dw	3.9U
Trichlorofluoromethane, ug/kg dw	3.9U
1,2,3-Trichloropropane, ug/kg dw	3.9U
Vinyl acetate, ug/kg dw	7.9U

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17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1
Vinyl chloride, ug/kg dw	7.9U
Xylenes, Total, ug/kg dw	7.9U
2-Hexanone, ug/kg dw	20U
Propionitrile, ug/kg dw	79U
Methyl methacrylate, ug/kg dw	3.9U
Acrolein (Propenal), ug/kg dw	79U
Acrylonitrile, ug/kg dw	79U
Ethyl methacrylate, ug/kg dw	3.9U
Isobutanol (Isobutyl alcohol), ug/kg dw	160U
Dibromomethane, ug/kg dw	3.9U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	79 %
Surrogate - Dibromofluoromethane	82 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1M1130

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17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	1800U
2-Acetylaminofluorene, ug/kg dw	1800U
4-Aminobiphenyl, ug/kg dw	1800U
Aniline, ug/kg dw	1800U
Aramite (total), ug/kg dw	1800U
Benzyl alcohol, ug/kg dw	1800U
bis(2-Chloroethoxy)methane, ug/kg dw	1800U
bis(2-Chloroethyl)ether, ug/kg dw	1800U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	1800U
bis(2-Ethylhexyl)phthalate, ug/kg dw	1800U
4-Bromophenylphenyl ether, ug/kg dw	1800U
Butylbenzylphthalate, ug/kg dw	1800U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	3600U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	1800U
2-Chloronaphthalene, ug/kg dw	1800U
2-Chlorophenol, ug/kg dw	1800U
4-Chlorophenylphenyl ether, ug/kg dw	1800U
Cresol, m & p, ug/kg dw	1800U
Cresol (ortho), ug/kg dw	1800U
Diallate, Total, ug/kg dw	1800U
Dibenzofuran, ug/kg dw	1800U

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17757-1	SS335001111699 00S	11-16-99/08:45	WRR005

PARAMETER	17757-1		
Di-n-butylphthalate, ug/kg dw	1800U		
3,3'-Dichlorobenzidine, ug/kg dw	3600U		
2,4-Dichlorophenol, ug/kg dw	1800U		
2,6-Dichlorophenol, ug/kg dw	1800U		
Diethylphthalate, ug/kg dw	1800U		
p-(Dimethylamino)azobenzene, ug/kg dw	1800U		
7,12-Dimethylbenz(a)anthracene, ug/kg dw	1800U		
3,3'-Dimethylbenzidine, ug/kg dw	3600U		
alpha,alpha-Dimethylphenethylamine, ug/kg dw	360000U		
2,4-Dimethylphenol, ug/kg dw	1800U		
Dimethylphthalate, ug/kg dw	1800U		
m-Dinitrobenzene , ug/kg dw	1800U		
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	9200U		
2,4-Dinitrophenol, ug/kg dw	9200U		
2,4-Dinitrotoluene, ug/kg dw	1800U		
2,6-Dinitrotoluene, ug/kg dw	1800U		
Di-n-octylphthalate, ug/kg dw	1800U		
1,4-Dioxane, ug/kg dw	1800U		
Ethyl methanesulfonate, ug/kg dw	1800U		
Hexachlorobenzene, ug/kg dw	1800U		
Hexachlorobutadiene, ug/kg dw	1800U		
Hexachlorocyclopentadiene, ug/kg dw	1800U		

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17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1
Hexachloroethane, ug/kg dw	1800U
Hexachlorophene, ug/kg dw	110000U
Hexachloropropene, ug/kg dw	1800U
Isophorone, ug/kg dw	1800U
Isosafrole, ug/kg dw	1800U
Methapyrilene, ug/kg dw	36000U
3-Methylcholanthrene, ug/kg dw	1800U
Methyl methanesulfonate, ug/kg dw	1800U
2-Methylnaphthalene, ug/kg dw	1800U
1,4-Naphthoquinone, ug/kg dw	1800U
1-Naphthylamine, ug/kg dw	1800U
2-Naphthylamine, ug/kg dw	1800U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	9200U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	9200U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	9200U
Nitrobenzene, ug/kg dw	1800U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	1800U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	9200U
4-Nitroquinoline-1-oxide, ug/kg dw	18000U
N-Nitrosodi-n-butylamine, ug/kg dw	1800U
N-Nitrosodiethylamine, ug/kg dw	1800U
N-Nitrosodimethylamine, ug/kg dw	1800U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	1800U

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LOG NO: S9-17757
Received: 17 NOV 99
Reported: 14 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1		
n-Nitrosodi-n-propylamine, ug/kg dw	1800U		
N-Nitrosomethylethylamine, ug/kg dw	1800U		
N-Nitrosomorpholine, ug/kg dw	1800U		
N-Nitrosopiperidine, ug/kg dw	1800U		
N-Nitrosopyrrolidine, ug/kg dw	1800U		
5-Nitro-o-toluidine, ug/kg dw	1800U		
Pentachlorobenzene, ug/kg dw	1800U		
Pentachloronitrobenzene, ug/kg dw	1800U		
Pentachlorophenol, ug/kg dw	9200U		
Phenacetin, ug/kg dw	1800U		
Phenol, ug/kg dw	1800U		
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	9200U		
2-Picoline, ug/kg dw	1800U		
Pronamide, ug/kg dw	1800U		
Pyridine, ug/kg dw	1800U		
Safrole, ug/kg dw	1800U		
1,2,4,5-Tetrachlorobenzene, ug/kg dw	1800U		
2,3,4,6-Tetrachlorophenol, ug/kg dw	1800U		
o-Toluidine, ug/kg dw	1800U		
1,2,4-Trichlorobenzene, ug/kg dw	1800U		
2,4,5-Trichlorophenol, ug/kg dw	1800U		
2,4,6-Trichlorophenol, ug/kg dw	1800U		
O,O,O-Triethyl phosphorothioate, ug/kg dw	1800U		

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17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1
1,3,5-Trinitrobenzene, ug/kg dw	1800U
Famphur, ug/kg dw	1800U
Dimethoate, ug/kg dw	1800U
1-Methylnaphthalene, ug/kg dw	1800U
Quinoline, ug/kg dw	3600U
Benzenethiol, ug/kg dw	3600U
Kepone, ug/kg dw	1800U
1,2-Dichlorobenzene, ug/kg dw	1800U
1,3-Dichlorobenzene, ug/kg dw	1800U
1,4-Dichlorobenzene, ug/kg dw	1800U
Surrogate - Phenol-d5	61 %
Surrogate - 2-Fluorophenol	58 %
Surrogate - 2,4,6-Tribromophenol	72 %
Surrogate - Nitrobenzene-d5	67 %
Surrogate - 2-Fluorobiphenyl	78 %
Surrogate - Terphenyl-d14	78 %
Dilution Factor	5.0
Prep Date	11.19.99
Analysis Date	11.22.99
Batch ID	1119B

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PARAMETER	17757-1
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	590
Anthracene, ug/kg dw	190
Benzo(a)anthracene, ug/kg dw	270
Benzo(a)pyrene, ug/kg dw	220
Benzo(b)fluoranthene, ug/kg dw	88P
Benzo(g,h,i)perylene, ug/kg dw	160P
Benzo(k)fluoranthene, ug/kg dw	43U
Chrysene, ug/kg dw	530P
Dibenzo(a,h)anthracene, ug/kg dw	140P
Fluoranthene, ug/kg dw	490P
Fluorene, ug/kg dw	110U
Indeno(1,2,3-cd)pyrene, ug/kg dw	110U
Naphthalene, ug/kg dw	220U
Phenanthrene, ug/kg dw	930
Pyrene, ug/kg dw	1400P
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.24.99
Analysis Date	12.02.99
Batch ID	1124J

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1		
Metals (6010)			
Antimony, mg/kg dw	4.3U		
Arsenic, mg/kg dw	13		
Barium, mg/kg dw	140		
Beryllium, mg/kg dw	1.2E		
Cadmium, mg/kg dw	1.5E		
Chromium, mg/kg dw	20		
Cobalt, mg/kg dw	7.5E		
Copper, mg/kg dw	32		
Nickel, mg/kg dw	32		
Lead, mg/kg dw	79		
Selenium, mg/kg dw	1.1U		
Silver, mg/kg dw	1.1U		
Tin, mg/kg dw	5.4U		
Thallium, mg/kg dw	1.1U		
Vanadium, mg/kg dw	34		
Zinc, mg/kg dw	120		
Dilution Factor	1.0		
Prep Date	11.26.99		
Analysis Date	01.03.00		
Batch ID	1126C		

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1
Mercury (7471)	
Mercury, mg/kg dw	0.35N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Organic Carbon (WALKLEY-BLACK), mg/kg dw	28000
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
pH in Soil (9045)	
pH, units	7.14
Prep Date	12.03.99
Analysis Date	12.03.99
Batch ID	1203Y
Moisture (% Loss on drying @ 105 C), %	8
Prep Date	12.07.99
Analysis Date	12.07.99

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-1	SS33500111169900S	11-16-99/08:45	WRR005

PARAMETER	17757-1
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.1U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126S
Sulfide (9030), mg/kg dw	27U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A
Percent Solids	92

Elizabeth P. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-2	SS33500511169900S	11-16-99/08:50	WRR005

PARAMETER	17757-2
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	200U
Acetone, ug/kg dw	51U
Benzene, ug/kg dw	5.1U
Bromodichloromethane, ug/kg dw	5.1U
Bromomethane (Methyl bromide), ug/kg dw	10U
Carbon disulfide, ug/kg dw	5.1U
Chlorobenzene, ug/kg dw	5.1U
Dibromochloromethane, ug/kg dw	5.1U
Chloroethane, ug/kg dw	10U
Chloromethane (Methyl chloride), ug/kg dw	10U
Chloroform, ug/kg dw	5.1U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.1U
Chloroprene, ug/kg dw	5.1U
1,2-Dibromo-3-chloropropane, ug/kg dw	10U
1,2-Dibromoethane (EDB), ug/kg dw	5.1U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.1U
Dichlorodifluoromethane, ug/kg dw	5.1U
1,1-Dichloroethane, ug/kg dw	5.1U
1,2-Dichloroethane, ug/kg dw	5.1U
cis-1,2-Dichloroethene, ug/kg dw	5.1U
trans-1,2-Dichloroethene, ug/kg dw	5.1U
1,1-Dichloroethylene, ug/kg dw	5.1U

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17757-2	SS33500511169900S	11-16-99/08:50	WRR005

PARAMETER	17757-2
Methylene chloride (Dichloromethane), ug/kg dw	5.1U
1,2-Dichloropropane, ug/kg dw	5.1U
cis-1,3-Dichloropropene, ug/kg dw	5.1U
trans-1,3-Dichloropropene, ug/kg dw	5.1U
Ethylbenzene, ug/kg dw	5.1U
Methyl ethyl ketone, ug/kg dw	26U
Iodomethane (Methyl iodide), ug/kg dw	5.1U
Methacrylonitrile, ug/kg dw	100U
4-Methyl-2-pentanone (MIBK), ug/kg dw	26U
Pentachloroethane, ug/kg dw	26U
Styrene, ug/kg dw	5.1U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.1U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.1U
Tetrachloroethene, ug/kg dw	5.1U
Carbon tetrachloride, ug/kg dw	5.1U
Toluene, ug/kg dw	5.1U
Bromoform, ug/kg dw	5.1U
1,1,2-Trichloroethane, ug/kg dw	5.1U
1,1,1-Trichloroethane, ug/kg dw	5.1U
Trichloroethene, ug/kg dw	5.1U
Trichlorofluoromethane, ug/kg dw	5.1U
1,2,3-Trichloropropane, ug/kg dw	5.1U
Vinyl acetate, ug/kg dw	10U

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17757-2	SS335005111699005	11-16-99/08:50	WRR005

PARAMETER	17757-2
Vinyl chloride, ug/kg dw	10U
Xylenes, Total, ug/kg dw	10U
2-Hexanone, ug/kg dw	26U
Propionitrile, ug/kg dw	100U
Methyl methacrylate, ug/kg dw	5.1U
Acrolein (Propenal), ug/kg dw	100U
Acrylonitrile, ug/kg dw	100U
Ethyl methacrylate, ug/kg dw	5.1U
Isobutanol (Isobutyl alcohol), ug/kg dw	200U
Dibromomethane, ug/kg dw	5.1U
Surrogate - Toluene-d8	86 %
Surrogate - 4-Bromofluorobenzene	63 %
Surrogate - Dibromofluoromethane	84 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1M1130

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17757-2	SS33500511169900S	11-16-99/08:50	WRR005

PARAMETER	17757-2
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	360U
2-Acetylaminofluorene, ug/kg dw	360U
4-Aminobiphenyl, ug/kg dw	360U
Aniline, ug/kg dw	360U
Aramite (total), ug/kg dw	360U
Benzyl alcohol, ug/kg dw	360U
bis(2-Chloroethoxy)methane, ug/kg dw	360U
bis(2-Chloroethyl)ether, ug/kg dw	360U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	360U
bis(2-Ethylhexyl)phthalate, ug/kg dw	360U
4-Bromophenylphenyl ether, ug/kg dw	360U
Butylbenzylphthalate, ug/kg dw	360U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	730U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	360U
2-Chloronaphthalene, ug/kg dw	360U
2-Chlorophenol, ug/kg dw	360U
4-Chlorophenylphenyl ether, ug/kg dw	360U
Cresol, m & p, ug/kg dw	360U
Cresol (ortho), ug/kg dw	360U
Diallate, Total, ug/kg dw	360U
Dibenzofuran, ug/kg dw	360U

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17757-2	SS33500511169900S	11-16-99/08:50	WRR005

PARAMETER	17757-2
Di-n-butylphthalate, ug/kg dw	360U
3,3'-Dichlorobenzidine, ug/kg dw	730U
2,4-Dichlorophenol, ug/kg dw	360U
2,6-Dichlorophenol, ug/kg dw	360U
Diethylphthalate, ug/kg dw	360U
p-(Dimethylamino)azobenzene, ug/kg dw	360U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	360U
3,3'-Dimethylbenzidine, ug/kg dw	730U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	74000U
2,4-Dimethylphenol, ug/kg dw	360U
Dimethylphthalate, ug/kg dw	360U
m-Dinitrobenzene , ug/kg dw	360U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	1900U
2,4-Dinitrophenol, ug/kg dw	1900U
2,4-Dinitrotoluene, ug/kg dw	360U
2,6-Dinitrotoluene, ug/kg dw	360U
Di-n-octylphthalate, ug/kg dw	360U
1,4-Dioxane, ug/kg dw	360U
Ethyl methanesulfonate, ug/kg dw	360U
Hexachlorobenzene, ug/kg dw	360U
Hexachlorobutadiene, ug/kg dw	360U
Hexachlorocyclopentadiene, ug/kg dw	360U

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17757-2	SS335005111699005	11-16-99/08:50	WRR005

PARAMETER	17757-2
Hexachloroethane, ug/kg dw	360U
Hexachlorophene, ug/kg dw	22000U
Hexachloropropene, ug/kg dw	360U
Isophorone, ug/kg dw	360U
Isosafrole, ug/kg dw	360U
Methapyrilene, ug/kg dw	7300U
3-Methylcholanthrene, ug/kg dw	360U
Methyl methanesulfonate, ug/kg dw	360U
2-Methylnaphthalene, ug/kg dw	360U
1,4-Naphthoquinone, ug/kg dw	360U
1-Naphthylamine, ug/kg dw	360U
2-Naphthylamine, ug/kg dw	360U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	1900U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	1900U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	1900U
Nitrobenzene, ug/kg dw	360U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	360U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	1900U
4-Nitroquinoline-1-oxide, ug/kg dw	3600U
N-Nitrosodi-n-butylamine, ug/kg dw	360U
N-Nitrosodiethylamine, ug/kg dw	360U
N-Nitrosodimethylamine, ug/kg dw	360U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	360U

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PARAMETER	17757-2
n-Nitrosodi-n-propylamine, ug/kg dw	360U
N-Nitrosomethylethylamine, ug/kg dw	360U
N-Nitrosomorpholine, ug/kg dw	360U
N-Nitrosopiperidine, ug/kg dw	360U
N-Nitrosopyrrolidine, ug/kg dw	360U
5-Nitro-o-toluidine, ug/kg dw	360U
Pentachlorobenzene, ug/kg dw	360U
Pentachloronitrobenzene, ug/kg dw	360U
Pentachlorophenol, ug/kg dw	1900U
Phenacetin, ug/kg dw	360U
Phenol, ug/kg dw	360U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	1900U
2-Picoline, ug/kg dw	360U
Pronamide, ug/kg dw	360U
Pyridine, ug/kg dw	360U
Safrole, ug/kg dw	360U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	360U
2,3,4,6-Tetrachlorophenol, ug/kg dw	360U
o-Toluidine, ug/kg dw	360U
1,2,4-Trichlorobenzene, ug/kg dw	360U
2,4,5-Trichlorophenol, ug/kg dw	360U
2,4,6-Trichlorophenol, ug/kg dw	360U
O,O,O-Triethyl phosphorothioate, ug/kg dw	360U

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17757-2	SS335005111699 00S	11-16-99/08:50	WRR005

PARAMETER	17757-2
1,3,5-Trinitrobenzene, ug/kg dw	360U
Famphur, ug/kg dw	360U
Dimethoate, ug/kg dw	360U
1-Methylnaphthalene, ug/kg dw	360U
Quinoline, ug/kg dw	730U
Benzenethiol, ug/kg dw	730U
Kepone, ug/kg dw	360U
1,2-Dichlorobenzene, ug/kg dw	360U
1,3-Dichlorobenzene, ug/kg dw	360U
1,4-Dichlorobenzene, ug/kg dw	360U
Surrogate - Phenol-d5	49 %
Surrogate - 2-Fluorophenol	51 %
Surrogate - 2,4,6-Tribromophenol	54 %
Surrogate - Nitrobenzene-d5	56 %
Surrogate - 2-Fluorobiphenyl	61 %
Surrogate - Terphenyl-d14	67 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.22.99
Batch ID	1119B

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LOG NO: S9-17757
Received: 17 NOV 99
Reported: 14 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-2	SS33500511169900S	11-16-99/08:50	WRR005

PARAMETER	17757-2
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	550U
Anthracene, ug/kg dw	~~840~~ 870D
Benzo(a)anthracene, ug/kg dw	~~870~~ 900D
Benzo(a)pyrene, ug/kg dw	640
Benzo(b)fluoranthene, ug/kg dw	710P
Benzo(g,h,i)perylene, ug/kg dw	~~550~~ 590D
Benzo(k)fluoranthene, ug/kg dw	290P
Chrysene, ug/kg dw	1100
Dibenzo(a,h)anthracene, ug/kg dw	110U
Fluoranthene, ug/kg dw	~~3000~~ 3700D
Fluorene, ug/kg dw	270
Indeno(1,2,3-cd)pyrene, ug/kg dw	340
Naphthalene, ug/kg dw	220U
Phenanthrene, ug/kg dw	~~2500E~~ 2600D
Pyrene, ug/kg dw	~~1900~~ 2000D
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.24.99
Analysis Date	12.02.99
Batch ID	1124J

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-2	SS335005111699 00S	11-16-99/08:50	WRR005

PARAMETER	17757-2
Metals (6010)	
Antimony, mg/kg dw	4.0U
Arsenic, mg/kg dw	14
Barium, mg/kg dw	120
Beryllium, mg/kg dw	0.78E
Cadmium, mg/kg dw	1.9E
Chromium, mg/kg dw	19
Cobalt, mg/kg dw	9.6E
Copper, mg/kg dw	26
Nickel, mg/kg dw	34
Lead, mg/kg dw	60
Selenium, mg/kg dw	1.1U
Silver, mg/kg dw	1.1U
Tin, mg/kg dw	5.6U
Thallium, mg/kg dw	1.1U
Vanadium, mg/kg dw	32
Zinc, mg/kg dw	100
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17757-2	SS33500511169900S	11-16-99/08:50	WRR005

PARAMETER	17757-2
Mercury (7471)	
Mercury, mg/kg dw	0.37N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Organic Carbon (WALKLEY-BLACK), mg/kg dw	67000
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
pH in Soil (9045)	
pH, units	6.94
Prep Date	12.03.99
Analysis Date	12.03.99
Batch ID	1203Y
Moisture (% Loss on drying @ 105 C), %	15
Prep Date	12.07.99
Analysis Date	12.07.99

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-2	SS33500511169900S	11-16-99/08:50	WRR005

PARAMETER	17757-2
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.1U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126S
Sulfide (9030), mg/kg dw	28U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A
Percent Solids	90

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-3	SS32400411169900S	11-16-99/09:25	WRR005

PARAMETER	17757-3
Metals (6010)	
Antimony, mg/kg dw	4.5U
Arsenic, mg/kg dw	6.4
Barium, mg/kg dw	230
Beryllium, mg/kg dw	0.92E
Cadmium, mg/kg dw	0.62UE
Chromium, mg/kg dw	28J
Cobalt, mg/kg dw	8.1E
Copper, mg/kg dw	21
Nickel, mg/kg dw	19
Lead, mg/kg dw	15
Selenium, mg/kg dw	1.2U
Silver, mg/kg dw	1.2U
Tin, mg/kg dw	6.2U
Thallium, mg/kg dw	1.2U
Vanadium, mg/kg dw	44
Zinc, mg/kg dw	78
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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Sampled By: Client
Code: 091000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-3	SS32400411169900S	11-16-99/09:25	WRR005

PARAMETER	17757-3
Mercury (7471)	
Mercury, mg/kg dw	0.031N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Cyanide, Total (9010), mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.29.99
Batch ID	1126S
Sulfide (9030), mg/kg dw	31U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A
Percent Solids	81

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-4	SS32400411169900D	11-16-99/09:25	WRR005

PARAMETER	17757-4
Metals (6010)	
Antimony, mg/kg dw	4.4U
Arsenic, mg/kg dw	6.1
Barium, mg/kg dw	210
Beryllium, mg/kg dw	0.84E
Cadmium, mg/kg dw	0.61UE
Chromium, mg/kg dw	120 J
Cobalt, mg/kg dw	6.5E
Copper, mg/kg dw	31
Nickel, mg/kg dw	19
Lead, mg/kg dw	25
Selenium, mg/kg dw	1.2U
Silver, mg/kg dw	1.2U
Tin, mg/kg dw	6.1U
Thallium, mg/kg dw	1.2U
Vanadium, mg/kg dw	35
Zinc, mg/kg dw	83
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17757-4	SS32400411169900D	11-16-99/09:25	WRR005

PARAMETER	17757-4
Mercury (7471)	
Mercury, mg/kg dw	0.070N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Cyanide, Total (9010), mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.29.99
Batch ID	1126S
Sulfide (9030), mg/kg dw	30U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A
Percent Solids	82

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Contract No.: S7219
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Sampled By: Client
Code: 091100117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-5	SS32401211169900S	11-16-99/09:35	WRR005

PARAMETER	17757-5
Metals (6010)	
Antimony, mg/kg dw	4.7U
Arsenic, mg/kg dw	9.0
Barium, mg/kg dw	200
Beryllium, mg/kg dw	0.71E
Cadmium, mg/kg dw	0.65UE
Chromium, mg/kg dw	20
Cobalt, mg/kg dw	7.1E
Copper, mg/kg dw	20
Nickel, mg/kg dw	23
Lead, mg/kg dw	11
Selenium, mg/kg dw	1.3U
Silver, mg/kg dw	1.3U
Tin, mg/kg dw	6.5U
Thallium, mg/kg dw	1.3U
Vanadium, mg/kg dw	34
Zinc, mg/kg dw	64
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-5	SS32401211169900S	11-16-99/09:35	WRR005

PARAMETER	17757-5
Mercury (7471)	
Mercury, mg/kg dw	0.044N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Organic Carbon (WALKLEY-BLACK), mg/kg dw	2300
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
pH in Soil (9045)	
pH, units	6.54
Prep Date	12.03.99
Analysis Date	12.03.99
Batch ID	1203Y
Moisture (% Loss on drying @ 105 C), %	29
Prep Date	12.07.99
Analysis Date	12.07.99

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-5	SS32401211169900S	11-16-99/09:35	WRR005

PARAMETER	17757-5
Cyanide, Total (9010), mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.29.99
Batch ID	1126S
Sulfide (9030), mg/kg dw	32U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A
Percent Solids	77

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-6	SS32601011169900S	11-16-99/10:20	WRR005

PARAMETER	17757-6
Volatile Organic Compounds (8260)	
Benzene, ug/kg dw	5.7U
Ethylbenzene, ug/kg dw	5.7U
Toluene, ug/kg dw	5.7U
Xylenes, Total, ug/kg dw	11U
Surrogate - Toluene-d8	91 %
Surrogate - 4-Bromofluorobenzene	81 %
Surrogate - Dibromofluoromethane	84 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1M1130
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	280U
Surrogate - a,a,a-Trifluorotoluene	129 %
Dilution Factor	1.0
Analysis Date	11.23.99
Batch ID	1A1123
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	3.8U
Surrogate - o-Terphenyl	67 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.23.99
Batch ID	1119U

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17757-6	SS32601011169900S	11-16-99/10:20	WRR005

PARAMETER	17757-6
Percent Solids	88

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-7	SS32701011169900S	11-16-99/10:50	WRR005

PARAMETER	17757-7
Volatile Organic Compounds (8260)	
Benzene, ug/kg dw	6.1U
Ethylbenzene, ug/kg dw	6.1U
Toluene, ug/kg dw	6.1U
Xylenes, Total, ug/kg dw	12U
Surrogate - Toluene-d8	95 %
Surrogate - 4-Bromofluorobenzene	87 %
Surrogate - Dibromofluoromethane	85 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	3M1129
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	310U
Surrogate - a,a,a-Trifluorotoluene	133 %
Dilution Factor	1.0
Analysis Date	11.23.99
Batch ID	1A1123
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	3.8U
Surrogate - o-Terphenyl	68 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.23.99
Batch ID	1119U

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17757-7	SS32701011169900S	11-16-99/10:50	WRR005

PARAMETER	17757-7
Percent Solids	87

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-8	SS32800111169900S	11-16-99/11:05	WRR005

PARAMETER	17757-8
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	240U
Acetone, ug/kg dw	59U
Benzene, ug/kg dw	5.9U
Bromodichloromethane, ug/kg dw	5.9U
Bromomethane (Methyl bromide), ug/kg dw	12U
Carbon disulfide, ug/kg dw	5.9U
Chlorobenzene, ug/kg dw	5.9U
Dibromochloromethane, ug/kg dw	5.9U
Chloroethane, ug/kg dw	12U
Chloromethane (Methyl chloride), ug/kg dw	12U
Chloroform, ug/kg dw	5.9U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.9U
Chloroprene, ug/kg dw	5.9U
1,2-Dibromo-3-chloropropane, ug/kg dw	12U
1,2-Dibromoethane (EDB), ug/kg dw	5.9U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.9U
Dichlorodifluoromethane, ug/kg dw	5.9U
1,1-Dichloroethane, ug/kg dw	5.9U
1,2-Dichloroethane, ug/kg dw	5.9U
cis-1,2-Dichloroethene, ug/kg dw	5.9U
trans-1,2-Dichloroethene, ug/kg dw	5.9U
1,1-Dichloroethylene, ug/kg dw	5.9U

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17757-8	SS32800111169900S	11-16-99/11:05	WRR005

PARAMETER	17757-8
Methylene chloride (Dichloromethane), ug/kg dw	5.9U
1,2-Dichloropropane, ug/kg dw	5.9U
cis-1,3-Dichloropropene, ug/kg dw	5.9U
trans-1,3-Dichloropropene, ug/kg dw	5.9U
Ethylbenzene, ug/kg dw	5.9U
Methyl ethyl ketone, ug/kg dw	30U
Iodomethane (Methyl iodide), ug/kg dw	5.9U
Methacrylonitrile, ug/kg dw	120U
4-Methyl-2-pentanone (MIBK), ug/kg dw	30U
Pentachloroethane, ug/kg dw	30U
Styrene, ug/kg dw	5.9U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.9U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.9U
Tetrachloroethene, ug/kg dw	5.9U
Carbon tetrachloride, ug/kg dw	5.9U
Toluene, ug/kg dw	5.9U
Bromoform, ug/kg dw	5.9U
1,1,2-Trichloroethane, ug/kg dw	5.9U
1,1,1-Trichloroethane, ug/kg dw	5.9U
Trichloroethene, ug/kg dw	5.9U
Trichlorofluoromethane, ug/kg dw	5.9U
1,2,3-Trichloropropane, ug/kg dw	5.9U
Vinyl acetate, ug/kg dw	12U

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Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091100117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-8	SS32800111169900S	11-16-99/11:05	WRR005

PARAMETER	17757-8
Vinyl chloride, ug/kg dw	12U
Xylenes, Total, ug/kg dw	12U
2-Hexanone, ug/kg dw	30U
Propionitrile, ug/kg dw	120U
Methyl methacrylate, ug/kg dw	5.9U
Acrolein (Propenal), ug/kg dw	120U
Acrylonitrile, ug/kg dw	120U
Ethyl methacrylate, ug/kg dw	5.9U
Isobutanol (Isobutyl alcohol), ug/kg dw	240U
Dibromomethane, ug/kg dw	5.9U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	78 %
Surrogate - Dibromofluoromethane	88 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	3M1129

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Reported: 14 JAN 00

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17757-8	SS32800111169900S	11-16-99/11:05	WRR005

PARAMETER	17757-8
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	360U
2-Acetylaminofluorene, ug/kg dw	360U
4-Aminobiphenyl, ug/kg dw	360U
Aniline, ug/kg dw	360U
Aramite (total), ug/kg dw	360U
Benzyl alcohol, ug/kg dw	360U
bis(2-Chloroethoxy)methane, ug/kg dw	360U
bis(2-Chloroethyl)ether, ug/kg dw	360U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	360U
bis(2-Ethylhexyl)phthalate, ug/kg dw	360U
4-Bromophenylphenyl ether, ug/kg dw	360U
Butylbenzylphthalate, ug/kg dw	360U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	720U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	360U
2-Chloronaphthalene, ug/kg dw	360U
2-Chlorophenol, ug/kg dw	360U
4-Chlorophenylphenyl ether, ug/kg dw	360U
Cresol, m & p, ug/kg dw	360U
Cresol (ortho), ug/kg dw	360U
Diallate, Total, ug/kg dw	360U
Dibenzofuran, ug/kg dw	360U

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17757-8	SS32800111169900S	11-16-99/11:05	WRR005

PARAMETER	17757-8		
Di-n-butylphthalate, ug/kg dw	360U		
3,3'-Dichlorobenzidine, ug/kg dw	720U		
2,4-Dichlorophenol, ug/kg dw	360U		
2,6-Dichlorophenol, ug/kg dw	360U		
Diethylphthalate, ug/kg dw	360U		
p-(Dimethylamino)azobenzene, ug/kg dw	360U		
7,12-Dimethylbenz(a)anthracene, ug/kg dw	360U		
3,3'-Dimethylbenzidine, ug/kg dw	720U		
alpha,alpha-Dimethylphenethylamine, ug/kg dw	72000U		
2,4-Dimethylphenol, ug/kg dw	360U		
Dimethylphthalate, ug/kg dw	360U		
m-Dinitrobenzene , ug/kg dw	360U		
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	1800U		
2,4-Dinitrophenol, ug/kg dw	1800U		
2,4-Dinitrotoluene, ug/kg dw	360U		
2,6-Dinitrotoluene, ug/kg dw	360U		
Di-n-octylphthalate, ug/kg dw	360U		
1,4-Dioxane, ug/kg dw	360U		
Ethyl methanesulfonate, ug/kg dw	360U		
Hexachlorobenzene, ug/kg dw	360U		
Hexachlorobutadiene, ug/kg dw	360U		
Hexachlorocyclopentadiene, ug/kg dw	360U		

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PARAMETER	17757-8
Hexachloroethane, ug/kg dw	360U
Hexachlorophene, ug/kg dw	22000U
Hexachloropropene, ug/kg dw	360U
Isophorone, ug/kg dw	360U
Isosafrole, ug/kg dw	360U
Methapyrilene, ug/kg dw	7200U
3-Methylcholanthrene, ug/kg dw	360U
Methyl methanesulfonate, ug/kg dw	360U
2-Methylnaphthalene, ug/kg dw	360U
1,4-Naphthoquinone, ug/kg dw	360U
1-Naphthylamine, ug/kg dw	360U
2-Naphthylamine, ug/kg dw	360U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	1800U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	1800U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	1800U
Nitrobenzene, ug/kg dw	360U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	360U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	1800U
4-Nitroquinoline-1-oxide, ug/kg dw	3600U
N-Nitrosodi-n-butylamine, ug/kg dw	360U
N-Nitrosodiethylamine, ug/kg dw	360U
N-Nitrosodimethylamine, ug/kg dw	360U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	360U

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PARAMETER	17757-8
n-Nitrosodi-n-propylamine, ug/kg dw	360U
N-Nitrosomethylethylamine, ug/kg dw	360U
N-Nitrosomorpholine, ug/kg dw	360U
N-Nitrosopiperidine, ug/kg dw	360U
N-Nitrosopyrrolidine, ug/kg dw	360U
5-Nitro-o-toluidine, ug/kg dw	360U
Pentachlorobenzene, ug/kg dw	360U
Pentachloronitrobenzene, ug/kg dw	360U
Pentachlorophenol, ug/kg dw	1800U
Phenacetin, ug/kg dw	360U
Phenol, ug/kg dw	360U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	1800U
2-Picoline, ug/kg dw	360U
Pronamide, ug/kg dw	360U
Pyridine, ug/kg dw	360U
Safrole, ug/kg dw	360U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	360U
2,3,4,6-Tetrachlorophenol, ug/kg dw	360U
o-Toluidine, ug/kg dw	360U
1,2,4-Trichlorobenzene, ug/kg dw	360U
2,4,5-Trichlorophenol, ug/kg dw	360U
2,4,6-Trichlorophenol, ug/kg dw	360U
O,O,O-Triethyl phosphorothioate, ug/kg dw	360U

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PARAMETER	17757-8
1,3,5-Trinitrobenzene, ug/kg dw	360U
Famphur, ug/kg dw	360U
Dimethoate, ug/kg dw	360U
1-Methylnaphthalene, ug/kg dw	360U
Quinoline, ug/kg dw	720U
Benzenethiol, ug/kg dw	720U
Kepone, ug/kg dw	360U
1,2-Dichlorobenzene, ug/kg dw	360U
1,3-Dichlorobenzene, ug/kg dw	360U
1,4-Dichlorobenzene, ug/kg dw	360U
Surrogate - Phenol-d5	50 %
Surrogate - 2-Fluorophenol	53 %
Surrogate - 2,4,6-Tribromophenol	61 %
Surrogate - Nitrobenzene-d5	61 %
Surrogate - 2-Fluorobiphenyl	61 %
Surrogate - Terphenyl-d14	67 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.22.99
Batch ID	1119B

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17757-8	SS32800111169900S	11-16-99/11:05	WRR005

PARAMETER	17757-8		
Polynuclear Aromatics (8310)			
Acenaphthene, ug/kg dw	540U		
Anthracene, ug/kg dw	55		
Benzo(a)anthracene, ug/kg dw	150		
Benzo(a)pyrene, ug/kg dw	220		
Benzo(b)fluoranthene, ug/kg dw	94P		
Benzo(g,h,i)perylene, ug/kg dw	180P		
Benzo(k)fluoranthene, ug/kg dw	43U		
Chrysene, ug/kg dw	320P		
Dibenzo(a,h)anthracene, ug/kg dw	110U		
Fluoranthene, ug/kg dw	190P		
Fluorene, ug/kg dw	110U		
Indeno(1,2,3-cd)pyrene, ug/kg dw	110U		
Naphthalene, ug/kg dw	220U		
Phenanthrene, ug/kg dw	290P		
Pyrene, ug/kg dw	410P		
Surrogate - Terphenyl-d14	0 %D		
Dilution Factor	10.0		
Prep Date	11.24.99		
Analysis Date	12.02.99		
Batch ID	1124J		

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-8	SS32800111169900S	11-16-99/11:05	WRR005

PARAMETER	17757-8
Metals (6010)	
Antimony, mg/kg dw	4.3U
Arsenic, mg/kg dw	5.4
Barium, mg/kg dw	210
Beryllium, mg/kg dw	0.71E
Cadmium, mg/kg dw	0.88E
Chromium, mg/kg dw	77
Cobalt, mg/kg dw	5.8E
Copper, mg/kg dw	29
Nickel, mg/kg dw	19
Lead, mg/kg dw	81
Selenium, mg/kg dw	1.1U
Silver, mg/kg dw	1.1U
Tin, mg/kg dw	5.4U
Thallium, mg/kg dw	1.1U
Vanadium, mg/kg dw	30
Zinc, mg/kg dw	130
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17757-8	SS32800111169900S	11-16-99/11:05	WRR005

PARAMETER	17757-8
Mercury (7471)	
Mercury, mg/kg dw	0.42N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	240U
Surrogate - a,a,a-Trifluorotoluene	171 %
Dilution Factor	1.0
Analysis Date	11.23.99
Batch ID	1A1123
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	~~750E~~ 520 D
Surrogate - o-Terphenyl	X
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.23.99
Batch ID	1119U

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17757-8	SS32800111169900S	11-16-99/11:05	WRR005

PARAMETER	17757-8
Cyanide, Total (9010), mg/kg dw	1.1U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.29.99
Batch ID	1126TS
Sulfide (9030), mg/kg dw	27U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A
Percent Solids	92

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-11	SS32801611169900S	11-16-99/11:20	WRR005

PARAMETER	17757-11
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	220U
Acetone, ug/kg dw	54U
Benzene, ug/kg dw	5.4U
Bromodichloromethane, ug/kg dw	5.4U
Bromomethane (Methyl bromide), ug/kg dw	11U
Carbon disulfide, ug/kg dw	5.4U
Chlorobenzene, ug/kg dw	5.4U
Dibromochloromethane, ug/kg dw	5.4U
Chloroethane, ug/kg dw	11U
Chloromethane (Methyl chloride), ug/kg dw	11U
Chloroform, ug/kg dw	5.4U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.4U
Chloroprene, ug/kg dw	5.4U
1,2-Dibromo-3-chloropropane, ug/kg dw	11U
1,2-Dibromoethane (EDB), ug/kg dw	5.4U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.4U
Dichlorodifluoromethane, ug/kg dw	5.4U
1,1-Dichloroethane, ug/kg dw	5.4U
1,2-Dichloroethane, ug/kg dw	5.4U
cis-1,2-Dichloroethene, ug/kg dw	5.4U
trans-1,2-Dichloroethene, ug/kg dw	5.4U
1,1-Dichloroethylene, ug/kg dw	5.4U

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PARAMETER	17757-11
Methylene chloride (Dichloromethane), ug/kg dw	5.4U
1,2-Dichloropropane, ug/kg dw	5.4U
cis-1,3-Dichloropropene, ug/kg dw	5.4U
trans-1,3-Dichloropropene, ug/kg dw	5.4U
Ethylbenzene, ug/kg dw	5.4U
Methyl ethyl ketone, ug/kg dw	27U
Iodomethane (Methyl iodide), ug/kg dw	5.4U
Methacrylonitrile, ug/kg dw	110U
4-Methyl-2-pentanone (MIBK), ug/kg dw	27U
Pentachloroethane, ug/kg dw	27U
Styrene, ug/kg dw	5.4U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.4U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.4U
Tetrachloroethene, ug/kg dw	5.4U
Carbon tetrachloride, ug/kg dw	5.4U
Toluene, ug/kg dw	5.4U
Bromoform, ug/kg dw	5.4U
1,1,2-Trichloroethane, ug/kg dw	5.4U
1,1,1-Trichloroethane, ug/kg dw	5.4U
Trichloroethene, ug/kg dw	5.4U
Trichlorofluoromethane, ug/kg dw	5.4U
1,2,3-Trichloropropane, ug/kg dw	5.4U
Vinyl acetate, ug/kg dw	11U

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PARAMETER	17757-11
Vinyl chloride, ug/kg dw	11U
Xylenes, Total, ug/kg dw	11U
2-Hexanone, ug/kg dw	27U
Propionitrile, ug/kg dw	110U
Methyl methacrylate, ug/kg dw	5.4U
Acrolein (Propenal), ug/kg dw	110U
Acrylonitrile, ug/kg dw	110U
Ethyl methacrylate, ug/kg dw	5.4U
Isobutanol (Isobutyl alcohol), ug/kg dw	220U
Dibromomethane, ug/kg dw	5.4U
Surrogate - Toluene-d8	94 %
Surrogate - 4-Bromofluorobenzene	89 %
Surrogate - Dibromofluoromethane	83 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	3M1129

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PARAMETER	17757-11
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	420U
2-Acetylaminofluorene, ug/kg dw	420U
4-Aminobiphenyl, ug/kg dw	420U
Aniline, ug/kg dw	420U
Aramite (total), ug/kg dw	420U
Benzyl alcohol, ug/kg dw	420U
bis(2-Chloroethoxy)methane, ug/kg dw	420U
bis(2-Chloroethyl)ether, ug/kg dw	420U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	420U
bis(2-Ethylhexyl)phthalate, ug/kg dw	460B
4-Bromophenylphenyl ether, ug/kg dw	420U
Butylbenzylphthalate, ug/kg dw	420U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	840U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	420U
2-Chloronaphthalene, ug/kg dw	420U
2-Chlorophenol, ug/kg dw	420U
4-Chlorophenylphenyl ether, ug/kg dw	420U
Cresol, m & p, ug/kg dw	420U
Cresol (ortho), ug/kg dw	420U
Diallate, Total, ug/kg dw	420U
Dibenzofuran, ug/kg dw	420U

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Code: 091300117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-11	SS32801611169900S	11-16-99/11:20	WRR005

PARAMETER	17757-11
Di-n-butylphthalate, ug/kg dw	420U
3,3'-Dichlorobenzidine, ug/kg dw	840U
2,4-Dichlorophenol, ug/kg dw	420U
2,6-Dichlorophenol, ug/kg dw	420U
Diethylphthalate, ug/kg dw	420U
p-(Dimethylamino)azobenzene, ug/kg dw	420U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	420U
3,3'-Dimethylbenzidine, ug/kg dw	840U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	85000U
2,4-Dimethylphenol, ug/kg dw	420U
Dimethylphthalate, ug/kg dw	420U
m-Dinitrobenzene , ug/kg dw	420U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2200U
2,4-Dinitrophenol, ug/kg dw	2200U
2,4-Dinitrotoluene, ug/kg dw	420U
2,6-Dinitrotoluene, ug/kg dw	420U
Di-n-octylphthalate, ug/kg dw	420U
1,4-Dioxane, ug/kg dw	420U
Ethyl methanesulfonate, ug/kg dw	420U
Hexachlorobenzene, ug/kg dw	420U
Hexachlorobutadiene, ug/kg dw	420U
Hexachlorocyclopentadiene, ug/kg dw	420U

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LOG NO: S9-17757
Received: 17 NOV 99
Reported: 14 JAN 00

Ms. Heather Halderman
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2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091300117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-11	SS32801611169900S	11-16-99/11:20	WRR005

PARAMETER	17757-11
Hexachloroethane, ug/kg dw	420U
Hexachlorophene, ug/kg dw	25000U
Hexachloropropene, ug/kg dw	420U
Isophorone, ug/kg dw	420U
Isosafrole, ug/kg dw	420U
Methapyrilene, ug/kg dw	8400U
3-Methylcholanthrene, ug/kg dw	420U
Methyl methanesulfonate, ug/kg dw	420U
2-Methylnaphthalene, ug/kg dw	420U
1,4-Naphthoquinone, ug/kg dw	420U
1-Naphthylamine, ug/kg dw	420U
2-Naphthylamine, ug/kg dw	420U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2200U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2200U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2200U
Nitrobenzene, ug/kg dw	420U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	420U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2200U
4-Nitroquinoline-1-oxide, ug/kg dw	4200U
N-Nitrosodi-n-butylamine, ug/kg dw	420U
N-Nitrosodiethylamine, ug/kg dw	420U
N-Nitrosodimethylamine, ug/kg dw	420U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	420U

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PARAMETER	17757-11		
n-Nitrosodi-n-propylamine, ug/kg dw	420U		
N-Nitrosomethylethylamine, ug/kg dw	420U		
N-Nitrosomorpholine, ug/kg dw	420U		
N-Nitrosopiperidine, ug/kg dw	420U		
N-Nitrosopyrrolidine, ug/kg dw	420U		
5-Nitro-o-toluidine, ug/kg dw	420U		
Pentachlorobenzene, ug/kg dw	420U		
Pentachloronitrobenzene, ug/kg dw	420U		
Pentachlorophenol, ug/kg dw	2200U		
Phenacetin, ug/kg dw	420U		
Phenol, ug/kg dw	420U		
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2200U		
2-Picoline, ug/kg dw	420U		
Pronamide, ug/kg dw	420U		
Pyridine, ug/kg dw	420U		
Safrole, ug/kg dw	420U		
1,2,4,5-Tetrachlorobenzene, ug/kg dw	420U		
2,3,4,6-Tetrachlorophenol, ug/kg dw	420U		
o-Toluidine, ug/kg dw	420U		
1,2,4-Trichlorobenzene, ug/kg dw	420U		
2,4,5-Trichlorophenol, ug/kg dw	420U		
2,4,6-Trichlorophenol, ug/kg dw	420U		
O,O,O-Triethyl phosphorothioate, ug/kg dw	420U		

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PARAMETER	17757-11
1,3,5-Trinitrobenzene, ug/kg dw	420U
Famphur, ug/kg dw	420U
Dimethoate, ug/kg dw	420U
1-Methylnaphthalene, ug/kg dw	420U
Quinoline, ug/kg dw	840U
Benzenethiol, ug/kg dw	840U
Kepone, ug/kg dw	420U
1,2-Dichlorobenzene, ug/kg dw	420U
1,3-Dichlorobenzene, ug/kg dw	420U
1,4-Dichlorobenzene, ug/kg dw	420U
Surrogate - Phenol-d5	60 %
Surrogate - 2-Fluorophenol	62 %
Surrogate - 2,4,6-Tribromophenol	67 %
Surrogate - Nitrobenzene-d5	67 %
Surrogate - 2-Fluorobiphenyl	67 %
Surrogate - Terphenyl-d14	76 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.22.99
Batch ID	1119B

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17757-11	SS32801611169900S	11-16-99/11:20	WRR005

PARAMETER	17757-11
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	64U
Anthracene, ug/kg dw	5.1U
Benzo(a)anthracene, ug/kg dw	5.1U
Benzo(a)pyrene, ug/kg dw	5.1U
Benzo(b)fluoranthene, ug/kg dw	5.1U
Benzo(g,h,i)perylene, ug/kg dw	13U
Benzo(k)fluoranthene, ug/kg dw	5.1U
Chrysene, ug/kg dw	5.4P
Dibenzo(a,h)anthracene, ug/kg dw	13U
Fluoranthene, ug/kg dw	13U
Fluorene, ug/kg dw	13U
Indeno(1,2,3-cd)pyrene, ug/kg dw	13U
Naphthalene, ug/kg dw	26U
Phenanthrene, ug/kg dw	5.1U
Pyrene, ug/kg dw	13U
Surrogate - Terphenyl-d14	74 %
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	12.02.99
Batch ID	1124J

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17757-11	SS32801611169900S	11-16-99/11:20	WRR005

PARAMETER	17757-11
Metals (6010)	
Antimony, mg/kg dw	4.7U
Arsenic, mg/kg dw	5.0
Barium, mg/kg dw	200
Beryllium, mg/kg dw	0.79E
Cadmium, mg/kg dw	0.64UE
Chromium, mg/kg dw	26
Cobalt, mg/kg dw	4.9E
Copper, mg/kg dw	18
Nickel, mg/kg dw	18
Lead, mg/kg dw	11
Selenium, mg/kg dw	1.3U
Silver, mg/kg dw	1.3U
Tin, mg/kg dw	6.4U
Thallium, mg/kg dw	1.3U
Vanadium, mg/kg dw	32
Zinc, mg/kg dw	74
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17757-11	SS32801611169900S	11-16-99/11:20	WRR005

PARAMETER	17757-11
Mercury (7471)	
Mercury, mg/kg dw	0.041N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Organic Carbon (WALKLEY-BLACK), mg/kg dw	5900
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
pH in Soil (9045)	
pH, units	7.68
Prep Date	12.03.99
Analysis Date	12.03.99
Batch ID	1203Y
Moisture (% Loss on drying @ 105 C), %	27
Prep Date	12.07.99
Analysis Date	12.07.99

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17757-11	SS32801611169900S	11-16-99/11:20	WRR005

PARAMETER	17757-11
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	270U
Surrogate - a,a,a-Trifluorotoluene	156 %
Dilution Factor	1.0
Analysis Date	11.23.99
Batch ID	1A1123
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	~~650E~~ 360D
Surrogate - o-Terphenyl	X
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.23.99
Batch ID	1119U
Cyanide, Total (9010), mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.29.99
Batch ID	1126S
Sulfide (9030), mg/kg dw	32U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A

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17757-11	SS32801611169900S	11-16-99/11:20	WRR005

PARAMETER	17757-11
Percent Solids	78

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	210U
Acetone, ug/kg dw	53U
Benzene, ug/kg dw	5.3U
Bromodichloromethane, ug/kg dw	5.3U
Bromomethane (Methyl bromide), ug/kg dw	10U
Carbon disulfide, ug/kg dw	5.3U
Chlorobenzene, ug/kg dw	5.3U
Dibromochloromethane, ug/kg dw	5.3U
Chloroethane, ug/kg dw	10U
Chloromethane (Methyl chloride), ug/kg dw	10U
Chloroform, ug/kg dw	5.3U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.3U
Chloroprene, ug/kg dw	5.3U
1,2-Dibromo-3-chloropropane, ug/kg dw	10U
1,2-Dibromoethane (EDB), ug/kg dw	5.3U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.3U
Dichlorodifluoromethane, ug/kg dw	5.3U
1,1-Dichloroethane, ug/kg dw	5.3U
1,2-Dichloroethane, ug/kg dw	5.3U
cis-1,2-Dichloroethene, ug/kg dw	5.3U
trans-1,2-Dichloroethene, ug/kg dw	5.3U
1,1-Dichloroethylene, ug/kg dw	5.3U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Methylene chloride (Dichloromethane), ug/kg dw	5.3U
1,2-Dichloropropane, ug/kg dw	5.3U
cis-1,3-Dichloropropene, ug/kg dw	5.3U
trans-1,3-Dichloropropene, ug/kg dw	5.3U
Ethylbenzene, ug/kg dw	5.3U
Methyl ethyl ketone, ug/kg dw	26U
Iodomethane (Methyl iodide), ug/kg dw	5.3U
Methacrylonitrile, ug/kg dw	100U
4-Methyl-2-pentanone (MIBK), ug/kg dw	26U
Pentachloroethane, ug/kg dw	26U
Styrene, ug/kg dw	5.3U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.3U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.3U
Tetrachloroethene, ug/kg dw	5.3U
Carbon tetrachloride, ug/kg dw	5.3U
Toluene, ug/kg dw	5.3U
Bromoform, ug/kg dw	5.3U
1,1,2-Trichloroethane, ug/kg dw	5.3U
1,1,1-Trichloroethane, ug/kg dw	5.3U
Trichloroethene, ug/kg dw	5.3U
Trichlorofluoromethane, ug/kg dw	5.3U
1,2,3-Trichloropropane, ug/kg dw	5.3U
Vinyl acetate, ug/kg dw	10U

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17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Vinyl chloride, ug/kg dw	10U
Xylenes, Total, ug/kg dw	10U
2-Hexanone, ug/kg dw	26U
Propionitrile, ug/kg dw	100U
Methyl methacrylate, ug/kg dw	5.3U
Acrolein (Propenal), ug/kg dw	100U
Acrylonitrile, ug/kg dw	100U
Ethyl methacrylate, ug/kg dw	5.3U
Isobutanol (Isobutyl alcohol), ug/kg dw	210U
Dibromomethane, ug/kg dw	5.3U
Surrogate - Toluene-d8	89 %
Surrogate - 4-Bromofluorobenzene	79 %
Surrogate - Dibromofluoromethane	87 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	3M1129

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17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	360U
2-Acetylaminofluorene, ug/kg dw	360U
4-Aminobiphenyl, ug/kg dw	360U
Aniline, ug/kg dw	360U
Aramite (total), ug/kg dw	360U
Benzyl alcohol, ug/kg dw	360U
bis(2-Chloroethoxy)methane, ug/kg dw	360U
bis(2-Chloroethyl)ether, ug/kg dw	360U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	360U
bis(2-Ethylhexyl)phthalate, ug/kg dw	360U
4-Bromophenylphenyl ether, ug/kg dw	360U
Butylbenzylphthalate, ug/kg dw	360U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	720U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	360U
2-Chloronaphthalene, ug/kg dw	360U
2-Chlorophenol, ug/kg dw	360U
4-Chlorophenylphenyl ether, ug/kg dw	360U
Cresol, m & p, ug/kg dw	360U
Cresol (ortho), ug/kg dw	360U
Diallate, Total, ug/kg dw	360U
Dibenzofuran, ug/kg dw	360U

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17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Di-n-butylphthalate, ug/kg dw	360U
3,3'-Dichlorobenzidine, ug/kg dw	720U
2,4-Dichlorophenol, ug/kg dw	360U
2,6-Dichlorophenol, ug/kg dw	360U
Diethylphthalate, ug/kg dw	360U
p-(Dimethylamino)azobenzene, ug/kg dw	360U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	360U
3,3'-Dimethylbenzidine, ug/kg dw	720U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	73000U
2,4-Dimethylphenol, ug/kg dw	360U
Dimethylphthalate, ug/kg dw	360U
m-Dinitrobenzene , ug/kg dw	360U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	1800U
2,4-Dinitrophenol, ug/kg dw	1800U
2,4-Dinitrotoluene, ug/kg dw	360U
2,6-Dinitrotoluene, ug/kg dw	360U
Di-n-octylphthalate, ug/kg dw	360U
1,4-Dioxane, ug/kg dw	360U
Ethyl methanesulfonate, ug/kg dw	360U
Hexachlorobenzene, ug/kg dw	360U
Hexachlorobutadiene, ug/kg dw	360U
Hexachlorocyclopentadiene, ug/kg dw	360U

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17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Hexachloroethane, ug/kg dw	360U
Hexachlorophene, ug/kg dw	22000U
Hexachloropropene, ug/kg dw	360U
Isophorone, ug/kg dw	360U
Isosafrole, ug/kg dw	360U
Methapyrilene, ug/kg dw	7200U
3-Methylcholanthrene, ug/kg dw	360U
Methyl methanesulfonate, ug/kg dw	360U
2-Methylnaphthalene, ug/kg dw	360U
1,4-Naphthoquinone, ug/kg dw	360U
1-Naphthylamine, ug/kg dw	360U
2-Naphthylamine, ug/kg dw	360U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	1800U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	1800U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	1800U
Nitrobenzene, ug/kg dw	360U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	360U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	1800U
4-Nitroquinoline-1-oxide, ug/kg dw	3600U
N-Nitrosodi-n-butylamine, ug/kg dw	360U
N-Nitrosodiethylamine, ug/kg dw	360U
N-Nitrosodimethylamine, ug/kg dw	360U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	360U

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LOG NO: S9-17757
Received: 17 NOV 99
Reported: 14 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091200117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
n-Nitrosodi-n-propylamine, ug/kg dw	360U
N-Nitrosomethylethylamine, ug/kg dw	360U
N-Nitrosomorpholine, ug/kg dw	360U
N-Nitrosopiperidine, ug/kg dw	360U
N-Nitrosopyrrolidine, ug/kg dw	360U
5-Nitro-o-toluidine, ug/kg dw	360U
Pentachlorobenzene, ug/kg dw	360U
Pentachloronitrobenzene, ug/kg dw	360U
Pentachlorophenol, ug/kg dw	1800U
Phenacetin, ug/kg dw	360U
Phenol, ug/kg dw	360U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	1800U
2-Picoline, ug/kg dw	360U
Pronamide, ug/kg dw	360U
Pyridine, ug/kg dw	360U
Safrole, ug/kg dw	360U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	360U
2,3,4,6-Tetrachlorophenol, ug/kg dw	360U
o-Toluidine, ug/kg dw	360U
1,2,4-Trichlorobenzene, ug/kg dw	360U
2,4,5-Trichlorophenol, ug/kg dw	360U
2,4,6-Trichlorophenol, ug/kg dw	360U
O,O,O-Triethyl phosphorothioate, ug/kg dw	360U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
1,3,5-Trinitrobenzene, ug/kg dw	360U
Famphur, ug/kg dw	360U
Dimethoate, ug/kg dw	360U
1-Methylnaphthalene, ug/kg dw	360U
Quinoline, ug/kg dw	720U
Benzenethiol, ug/kg dw	720U
Kepone, ug/kg dw	360U
1,2-Dichlorobenzene, ug/kg dw	360U
1,3-Dichlorobenzene, ug/kg dw	360U
1,4-Dichlorobenzene, ug/kg dw	360U
Surrogate - Phenol-d5	42 %
Surrogate - 2-Fluorophenol	44 %
Surrogate - 2,4,6-Tribromophenol	50 %
Surrogate - Nitrobenzene-d5	49 %
Surrogate - 2-Fluorobiphenyl	53 %
Surrogate - Terphenyl-d14	54 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.22.99
Batch ID	1119B

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17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	550U
Anthracene, ug/kg dw	110
Benzo(a)anthracene, ug/kg dw	190
Benzo(a)pyrene, ug/kg dw	290
Benzo(b)fluoranthene, ug/kg dw	130
Benzo(g,h,i)perylene, ug/kg dw	480
Benzo(k)fluoranthene, ug/kg dw	53P
Chrysene, ug/kg dw	400P
Dibenzo(a,h)anthracene, ug/kg dw	110U
Fluoranthene, ug/kg dw	700
Fluorene, ug/kg dw	110U
Indeno(1,2,3-cd)pyrene, ug/kg dw	110U
Naphthalene, ug/kg dw	220U
Phenanthrene, ug/kg dw	490
Pyrene, ug/kg dw	1100 J
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.24.99
Analysis Date	12.02.99
Batch ID	1124J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Metals (6010)	
Antimony, mg/kg dw	4.4U
Arsenic, mg/kg dw	6.5
Barium, mg/kg dw	260
Beryllium, mg/kg dw	0.75E
Cadmium, mg/kg dw	0.99E
Chromium, mg/kg dw	94
Cobalt, mg/kg dw	6.5E
Copper, mg/kg dw	30
Nickel, mg/kg dw	21
Lead, mg/kg dw	91
Selenium, mg/kg dw	1.1U
Silver, mg/kg dw	1.1U
Tin, mg/kg dw	5.5U
Thallium, mg/kg dw	1.1U
Vanadium, mg/kg dw	35
Zinc, mg/kg dw	150
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Mercury (7471)	
Mercury, mg/kg dw	0.27N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	290U
Surrogate - a,a,a-Trifluorotoluene	235 %
Dilution Factor	1.0
Analysis Date	11.23.99
Batch ID	1A1123
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	~~590E~~ 360D
Surrogate - o-Terphenyl	X
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.23.99
Batch ID	1119U

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17757-9	SS32900111169900S	11-16-99/12:50	WRR005

PARAMETER	17757-9
Cyanide, Total (9010), mg/kg dw	1.1U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.29.99
Batch ID	1126S
Sulfide (9030), mg/kg dw	28U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A
Percent Solids	91

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-10	SS32900111169900D	11-16-99/12:50	WRR005

PARAMETER	17757-10
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	220U
Acetone, ug/kg dw	56U
Benzene, ug/kg dw	5.6U
Bromodichloromethane, ug/kg dw	5.6U
Bromomethane (Methyl bromide), ug/kg dw	11U
Carbon disulfide, ug/kg dw	5.6U
Chlorobenzene, ug/kg dw	5.6U
Dibromochloromethane, ug/kg dw	5.6U
Chloroethane, ug/kg dw	11U
Chloromethane (Methyl chloride), ug/kg dw	11U
Chloroform, ug/kg dw	5.6U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.6U
Chloroprene, ug/kg dw	5.6U
1,2-Dibromo-3-chloropropane, ug/kg dw	11U
1,2-Dibromoethane (EDB), ug/kg dw	5.6U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.6U
Dichlorodifluoromethane, ug/kg dw	5.6U
1,1-Dichloroethane, ug/kg dw	5.6U
1,2-Dichloroethane, ug/kg dw	5.6U
cis-1,2-Dichloroethene, ug/kg dw	5.6U
trans-1,2-Dichloroethene, ug/kg dw	5.6U
1,1-Dichloroethylene, ug/kg dw	5.6U

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17757-10	SS32900111169900D	11-16-99/12:50	WRR005

PARAMETER	17757-10				
Methylene chloride (Dichloromethane), ug/kg dw	5.6U				
1,2-Dichloropropane, ug/kg dw	5.6U				
cis-1,3-Dichloropropene, ug/kg dw	5.6U				
trans-1,3-Dichloropropene, ug/kg dw	5.6U				
Ethylbenzene, ug/kg dw	5.6U				
Methyl ethyl ketone, ug/kg dw	28U				
Iodomethane (Methyl iodide), ug/kg dw	5.6U				
Methacrylonitrile, ug/kg dw	110U				
4-Methyl-2-pentanone (MIBK), ug/kg dw	28U				
Pentachloroethane, ug/kg dw	28U				
Styrene, ug/kg dw	5.6U				
1,1,1,2-Tetrachloroethane, ug/kg dw	5.6U				
1,1,2,2-Tetrachloroethane, ug/kg dw	5.6U				
Tetrachloroethene, ug/kg dw	5.6U				
Carbon tetrachloride, ug/kg dw	5.6U				
Toluene, ug/kg dw	5.6U				
Bromoform, ug/kg dw	5.6U				
1,1,2-Trichloroethane, ug/kg dw	5.6U				
1,1,1-Trichloroethane, ug/kg dw	5.6U				
Trichloroethene, ug/kg dw	5.6U				
Trichlorofluoromethane, ug/kg dw	5.6U				
1,2,3-Trichloropropane, ug/kg dw	5.6U				
Vinyl acetate, ug/kg dw	11U				

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17757-10	SS32900111169900D	11-16-99/12:50	WRR005

PARAMETER	17757-10
Vinyl chloride, ug/kg dw	11U
Xylenes, Total, ug/kg dw	11U
2-Hexanone, ug/kg dw	28U
Propionitrile, ug/kg dw	110U
Methyl methacrylate, ug/kg dw	5.6U
Acrolein (Propenal), ug/kg dw	110U
Acrylonitrile, ug/kg dw	110U
Ethyl methacrylate, ug/kg dw	5.6U
Isobutanol (Isobutyl alcohol), ug/kg dw	220U
Dibromomethane, ug/kg dw	5.6U
Surrogate - Toluene-d8	93 %
Surrogate - 4-Bromofluorobenzene	86 %
Surrogate - Dibromofluoromethane	82 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	3M1129

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17757-10	SS32900111169900D	11-16-99/12:50	WRR005

PARAMETER	17757-10
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	360U
2-Acetylaminofluorene, ug/kg dw	360U
4-Aminobiphenyl, ug/kg dw	360U
Aniline, ug/kg dw	360U
Aramite (total), ug/kg dw	360U
Benzyl alcohol, ug/kg dw	360U
bis(2-Chloroethoxy)methane, ug/kg dw	360U
bis(2-Chloroethyl)ether, ug/kg dw	360U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	360U
bis(2-Ethylhexyl)phthalate, ug/kg dw	360U
4-Bromophenylphenyl ether, ug/kg dw	360U
Butylbenzylphthalate, ug/kg dw	360U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	730U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	360U
2-Chloronaphthalene, ug/kg dw	360U
2-Chlorophenol, ug/kg dw	360U
4-Chlorophenylphenyl ether, ug/kg dw	360U
Cresol, m & p, ug/kg dw	360U
Cresol (ortho), ug/kg dw	360U
Diallate, Total, ug/kg dw	360U
Dibenzofuran, ug/kg dw	360U

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PARAMETER	17757-10		
Di-n-butylphthalate, ug/kg dw	360U		
3,3'-Dichlorobenzidine, ug/kg dw	730U		
2,4-Dichlorophenol, ug/kg dw	360U		
2,6-Dichlorophenol, ug/kg dw	360U		
Diethylphthalate, ug/kg dw	360U		
p-(Dimethylamino)azobenzene, ug/kg dw	360U		
7,12-Dimethylbenz(a)anthracene, ug/kg dw	360U		
3,3'-Dimethylbenzidine, ug/kg dw	730U		
alpha,alpha-Dimethylphenethylamine, ug/kg dw	74000U		
2,4-Dimethylphenol, ug/kg dw	360U		
Dimethylphthalate, ug/kg dw	360U		
m-Dinitrobenzene , ug/kg dw	360U		
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	1900U		
2,4-Dinitrophenol, ug/kg dw	1900U		
2,4-Dinitrotoluene, ug/kg dw	360U		
2,6-Dinitrotoluene, ug/kg dw	360U		
Di-n-octylphthalate, ug/kg dw	360U		
1,4-Dioxane, ug/kg dw	360U		
Ethyl methanesulfonate, ug/kg dw	360U		
Hexachlorobenzene, ug/kg dw	360U		
Hexachlorobutadiene, ug/kg dw	360U		
Hexachlorocyclopentadiene, ug/kg dw	360U		

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PARAMETER	17757-10		
Hexachloroethane, ug/kg dw	360U		
Hexachlorophene, ug/kg dw	22000U		
Hexachloropropene, ug/kg dw	360U		
Isophorone, ug/kg dw	360U		
Isosafrole, ug/kg dw	360U		
Methapyrilene, ug/kg dw	7300U		
3-Methylcholanthrene, ug/kg dw	360U		
Methyl methanesulfonate, ug/kg dw	360U		
2-Methylnaphthalene, ug/kg dw	390		
1,4-Naphthoquinone, ug/kg dw	360U		
1-Naphthylamine, ug/kg dw	360U		
2-Naphthylamine, ug/kg dw	360U		
2-Nitroaniline (o-Nitroaniline), ug/kg dw	1900U		
3-Nitroaniline (m-Nitroaniline), ug/kg dw	1900U		
4-Nitroaniline (p-Nitroaniline), ug/kg dw	1900U		
Nitrobenzene, ug/kg dw	360U		
2-Nitrophenol (o-Nitrophenol), ug/kg dw	360U		
4-Nitrophenol (p-Nitrophenol), ug/kg dw	1900U		
4-Nitroquinoline-1-oxide, ug/kg dw	3600U		
N-Nitrosodi-n-butylamine, ug/kg dw	360U		
N-Nitrosodiethylamine, ug/kg dw	360U		
N-Nitrosodimethylamine, ug/kg dw	360U		
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	360U		

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PARAMETER	17757-10
n-Nitrosodi-n-propylamine, ug/kg dw	360U
N-Nitrosomethylethylamine, ug/kg dw	360U
N-Nitrosomorpholine, ug/kg dw	360U
N-Nitrosopiperidine, ug/kg dw	360U
N-Nitrosopyrrolidine, ug/kg dw	360U
5-Nitro-o-toluidine, ug/kg dw	360U
Pentachlorobenzene, ug/kg dw	360U
Pentachloronitrobenzene, ug/kg dw	360U
Pentachlorophenol, ug/kg dw	1900U
Phenacetin, ug/kg dw	360U
Phenol, ug/kg dw	360U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	1900U
2-Picoline, ug/kg dw	360U
Pronamide, ug/kg dw	360U
Pyridine, ug/kg dw	360U
Safrole, ug/kg dw	360U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	360U
2,3,4,6-Tetrachlorophenol, ug/kg dw	360U
o-Toluidine, ug/kg dw	360U
1,2,4-Trichlorobenzene, ug/kg dw	360U
2,4,5-Trichlorophenol, ug/kg dw	360U
2,4,6-Trichlorophenol, ug/kg dw	360U
O,O,O-Triethyl phosphorothioate, ug/kg dw	360U

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Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091200117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-10	SS32900111169900D	11-16-99/12:50	WRR005

PARAMETER	17757-10
1,3,5-Trinitrobenzene, ug/kg dw	360U
Famphur, ug/kg dw	360U
Dimethoate, ug/kg dw	360U
1-Methylnaphthalene, ug/kg dw	360U
Quinoline, ug/kg dw	730U
Benzenethiol, ug/kg dw	730U
Kepone, ug/kg dw	360U
1,2-Dichlorobenzene, ug/kg dw	360U
1,3-Dichlorobenzene, ug/kg dw	360U
1,4-Dichlorobenzene, ug/kg dw	360U
Surrogate - Phenol-d5	51 %
Surrogate - 2-Fluorophenol	51 %
Surrogate - 2,4,6-Tribromophenol	59 %
Surrogate - Nitrobenzene-d5	56 %
Surrogate - 2-Fluorobiphenyl	61 %
Surrogate - Terphenyl-d14	67 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.22.99
Batch ID	1119B

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LOG NO: S9-17757
Received: 17 NOV 99
Reported: 14 JAN 00

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-10	SS32900111169900D	11-16-99/12:50	WRR005

PARAMETER	17757-10
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	550U
Anthracene, ug/kg dw	67
Benzo(a)anthracene, ug/kg dw	140
Benzo(a)pyrene, ug/kg dw	180
Benzo(b)fluoranthene, ug/kg dw	94
Benzo(g,h,i)perylene, ug/kg dw	210P
Benzo(k)fluoranthene, ug/kg dw	44U
Chrysene, ug/kg dw	290P
Dibenzo(a,h)anthracene, ug/kg dw	110U
Fluoranthene, ug/kg dw	430
Fluorene, ug/kg dw	110U
Indeno(1,2,3-cd)pyrene, ug/kg dw	110U
Naphthalene, ug/kg dw	220U
Phenanthrene, ug/kg dw	370
Pyrene, ug/kg dw	200PJ
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.24.99
Analysis Date	12.02.99
Batch ID	1124J

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-10	SS32900111169900D	11-16-99/12:50	WRR005

PARAMETER	17757-10
Metals (6010)	
Antimony, mg/kg dw	4.0U
Arsenic, mg/kg dw	6.0
Barium, mg/kg dw	270
Beryllium, mg/kg dw	0.76E
Cadmium, mg/kg dw	1.0E
Chromium, mg/kg dw	87
Cobalt, mg/kg dw	6.3E
Copper, mg/kg dw	28
Nickel, mg/kg dw	21
Lead, mg/kg dw	90
Selenium, mg/kg dw	1.1U
Silver, mg/kg dw	1.1U
Tin, mg/kg dw	5.6U
Thallium, mg/kg dw	1.1U
Vanadium, mg/kg dw	32
Zinc, mg/kg dw	150
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-10	SS32900111169900D	11-16-99/12:50	WRR005

PARAMETER	17757-10
Mercury (7471)	
Mercury, mg/kg dw	0.39N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	260U
Surrogate - a,a,a-Trifluorotoluene	150 %
Dilution Factor	1.0
Analysis Date	11.23.99
Batch ID	1A1123
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	~~630E~~ 320D
Surrogate - o-Terphenyl	X
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.23.99
Batch ID	1119U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-10	SS32900111169900D	11-16-99/12:50	WRR005

PARAMETER	17757-10
Cyanide, Total (9010), mg/kg dw	1.1U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.29.99
Batch ID	1126S
Sulfide (9030), mg/kg dw	28U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A
Percent Solids	90

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-12	SS32901611169900S	11-16-99/13:10	WRR005

PARAMETER	17757-12
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	240U
Acetone, ug/kg dw	61U
Benzene, ug/kg dw	6.1U
Bromodichloromethane, ug/kg dw	6.1U
Bromomethane (Methyl bromide), ug/kg dw	12U
Carbon disulfide, ug/kg dw	6.1U
Chlorobenzene, ug/kg dw	6.1U
Dibromochloromethane, ug/kg dw	6.1U
Chloroethane, ug/kg dw	12U
Chloromethane (Methyl chloride), ug/kg dw	12U
Chloroform, ug/kg dw	6.1U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	6.1U
Chloroprene, ug/kg dw	6.1U
1,2-Dibromo-3-chloropropane, ug/kg dw	12U
1,2-Dibromoethane (EDB), ug/kg dw	6.1U
trans-1,4-Dichloro-2-butene, ug/kg dw	6.1U
Dichlorodifluoromethane, ug/kg dw	6.1U
1,1-Dichloroethane, ug/kg dw	6.1U
1,2-Dichloroethane, ug/kg dw	6.1U
cis-1,2-Dichloroethene, ug/kg dw	6.1U
trans-1,2-Dichloroethene, ug/kg dw	6.1U
1,1-Dichloroethylene, ug/kg dw	6.1U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-12	SS32901611169900S	11-16-99/13:10	WRR005

PARAMETER	17757-12
Methylene chloride (Dichloromethane), ug/kg dw	6.1U
1,2-Dichloropropane, ug/kg dw	6.1U
cis-1,3-Dichloropropene, ug/kg dw	6.1U
trans-1,3-Dichloropropene, ug/kg dw	6.1U
Ethylbenzene, ug/kg dw	6.1U
Methyl ethyl ketone, ug/kg dw	30U
Iodomethane (Methyl iodide), ug/kg dw	6.1U
Methacrylonitrile, ug/kg dw	120U
4-Methyl-2-pentanone (MIBK), ug/kg dw	30U
Pentachloroethane, ug/kg dw	30U
Styrene, ug/kg dw	6.1U
1,1,1,2-Tetrachloroethane, ug/kg dw	6.1U
1,1,2,2-Tetrachloroethane, ug/kg dw	6.1U
Tetrachloroethene, ug/kg dw	6.1U
Carbon tetrachloride, ug/kg dw	6.1U
Toluene, ug/kg dw	6.1U
Bromoform, ug/kg dw	6.1U
1,1,2-Trichloroethane, ug/kg dw	6.1U
1,1,1-Trichloroethane, ug/kg dw	6.1U
Trichloroethene, ug/kg dw	6.1U
Trichlorofluoromethane, ug/kg dw	6.1U
1,2,3-Trichloropropane, ug/kg dw	6.1U
Vinyl acetate, ug/kg dw	12U

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PARAMETER	17757-12
Vinyl chloride, ug/kg dw	12U
Xylenes, Total, ug/kg dw	12U
2-Hexanone, ug/kg dw	30U
Propionitrile, ug/kg dw	120U
Methyl methacrylate, ug/kg dw	6.1U
Acrolein (Propenal), ug/kg dw	120U
Acrylonitrile, ug/kg dw	120U
Ethyl methacrylate, ug/kg dw	6.1U
Isobutanol (Isobutyl alcohol), ug/kg dw	240U
Dibromomethane, ug/kg dw	6.1U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	90 %
Surrogate - Dibromofluoromethane	87 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	3M1129

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-12	SS32901611169900S	11-16-99/13:10	WRR005

PARAMETER	17757-12
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	410U
2-Acetylaminofluorene, ug/kg dw	410U
4-Aminobiphenyl, ug/kg dw	410U
Aniline, ug/kg dw	410U
Aramite (total), ug/kg dw	410U
Benzyl alcohol, ug/kg dw	410U
bis(2-Chloroethoxy)methane, ug/kg dw	410U
bis(2-Chloroethyl)ether, ug/kg dw	410U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	410U
bis(2-Ethylhexyl)phthalate, ug/kg dw	470B
4-Bromophenylphenyl ether, ug/kg dw	410U
Butylbenzylphthalate, ug/kg dw	410U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	830U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	410U
2-Chloronaphthalene, ug/kg dw	410U
2-Chlorophenol, ug/kg dw	410U
4-Chlorophenylphenyl ether, ug/kg dw	410U
Cresol, m & p, ug/kg dw	410U
Cresol (ortho), ug/kg dw	410U
Diallate, Total, ug/kg dw	410U
Dibenzofuran, ug/kg dw	410U

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17757-12	SS32901611169900S	11-16-99/13:10	WRR005

PARAMETER	17757-12		
Di-n-butylphthalate, ug/kg dw	410U		
3,3'-Dichlorobenzidine, ug/kg dw	830U		
2,4-Dichlorophenol, ug/kg dw	410U		
2,6-Dichlorophenol, ug/kg dw	410U		
Diethylphthalate, ug/kg dw	410U		
p-(Dimethylamino)azobenzene, ug/kg dw	410U		
7,12-Dimethylbenz(a)anthracene, ug/kg dw	410U		
3,3'-Dimethylbenzidine, ug/kg dw	830U		
alpha,alpha-Dimethylphenethylamine, ug/kg dw	84000U		
2,4-Dimethylphenol, ug/kg dw	410U		
Dimethylphthalate, ug/kg dw	410U		
m-Dinitrobenzene , ug/kg dw	410U		
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2100U		
2,4-Dinitrophenol, ug/kg dw	2100U		
2,4-Dinitrotoluene, ug/kg dw	410U		
2,6-Dinitrotoluene, ug/kg dw	410U		
Di-n-octylphthalate, ug/kg dw	410U		
1,4-Dioxane, ug/kg dw	410U		
Ethyl methanesulfonate, ug/kg dw	410U		
Hexachlorobenzene, ug/kg dw	410U		
Hexachlorobutadiene, ug/kg dw	410U		
Hexachlorocyclopentadiene, ug/kg dw	410U		

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PARAMETER	17757-12		
Hexachloroethane, ug/kg dw	410U		
Hexachlorophene, ug/kg dw	25000U		
Hexachloropropene, ug/kg dw	410U		
Isophorone, ug/kg dw	410U		
Isosafrole, ug/kg dw	410U		
Methapyrilene, ug/kg dw	8300U		
3-Methylcholanthrene, ug/kg dw	410U		
Methyl methanesulfonate, ug/kg dw	410U		
2-Methylnaphthalene, ug/kg dw	410U		
1,4-Naphthoquinone, ug/kg dw	410U		
1-Naphthylamine, ug/kg dw	410U		
2-Naphthylamine, ug/kg dw	410U		
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2100U		
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2100U		
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2100U		
Nitrobenzene, ug/kg dw	410U		
2-Nitrophenol (o-Nitrophenol), ug/kg dw	410U		
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2100U		
4-Nitroquinoline-1-oxide, ug/kg dw	4100U		
N-Nitrosodi-n-butylamine, ug/kg dw	410U		
N-Nitrosodiethylamine, ug/kg dw	410U		
N-Nitrosodimethylamine, ug/kg dw	410U		
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	410U		

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PARAMETER	17757-12
n-Nitrosodi-n-propylamine, ug/kg dw	410U
N-Nitrosomethylethylamine, ug/kg dw	410U
N-Nitrosomorpholine, ug/kg dw	410U
N-Nitrosopiperidine, ug/kg dw	410U
N-Nitrosopyrrolidine, ug/kg dw	410U
5-Nitro-o-toluidine, ug/kg dw	410U
Pentachlorobenzene, ug/kg dw	410U
Pentachloronitrobenzene, ug/kg dw	410U
Pentachlorophenol, ug/kg dw	2100U
Phenacetin, ug/kg dw	410U
Phenol, ug/kg dw	410U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2100U
2-Picoline, ug/kg dw	410U
Pronamide, ug/kg dw	410U
Pyridine, ug/kg dw	410U
Safrole, ug/kg dw	410U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	410U
2,3,4,6-Tetrachlorophenol, ug/kg dw	410U
o-Toluidine, ug/kg dw	410U
1,2,4-Trichlorobenzene, ug/kg dw	410U
2,4,5-Trichlorophenol, ug/kg dw	410U
2,4,6-Trichlorophenol, ug/kg dw	410U
O,O,O-Triethyl phosphorothioate, ug/kg dw	410U

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PARAMETER	17757-12
1,3,5-Trinitrobenzene, ug/kg dw	410U
Famphur, ug/kg dw	410U
Dimethoate, ug/kg dw	410U
1-Methylnaphthalene, ug/kg dw	410U
Quinoline, ug/kg dw	830U
Benzenethiol, ug/kg dw	830U
Kepone, ug/kg dw	410U
1,2-Dichlorobenzene, ug/kg dw	410U
1,3-Dichlorobenzene, ug/kg dw	410U
1,4-Dichlorobenzene, ug/kg dw	410U
Surrogate - Phenol-d5	57 %
Surrogate - 2-Fluorophenol	60 %
Surrogate - 2,4,6-Tribromophenol	64 %
Surrogate - Nitrobenzene-d5	62 %
Surrogate - 2-Fluorobiphenyl	67 %
Surrogate - Terphenyl-d14	67 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.22.99
Batch ID	1119B

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17757-12	SS32901611169900S	11-16-99/13:10	WRR005

PARAMETER	17757-12
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	63U
Anthracene, ug/kg dw	5.0U
Benzo(a)anthracene, ug/kg dw	5.0U
Benzo(a)pyrene, ug/kg dw	5.0U
Benzo(b)fluoranthene, ug/kg dw	5.0U
Benzo(g,h,i)perylene, ug/kg dw	12U
Benzo(k)fluoranthene, ug/kg dw	5.0U
Chrysene, ug/kg dw	5.0U
Dibenzo(a,h)anthracene, ug/kg dw	12U
Fluoranthene, ug/kg dw	12U
Fluorene, ug/kg dw	12U
Indeno(1,2,3-cd)pyrene, ug/kg dw	12U
Naphthalene, ug/kg dw	25U
Phenanthrene, ug/kg dw	5.0U
Pyrene, ug/kg dw	12U
Surrogate - Terphenyl-d14	59 %
Dilution Factor	1.0
Prep Date	11.24.99
Analysis Date	12.02.99
Batch ID	1124J

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Code: 091400117

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-12	SS329016111699 00S	11-16-99/13:10	WRR005

PARAMETER	17757-12
Metals (6010)	
Antimony, mg/kg dw	5.1U
Arsenic, mg/kg dw	7.3
Barium, mg/kg dw	190
Beryllium, mg/kg dw	0.57E
Cadmium, mg/kg dw	0.63UE
Chromium, mg/kg dw	13
Cobalt, mg/kg dw	9.6E
Copper, mg/kg dw	16
Nickel, mg/kg dw	24
Lead, mg/kg dw	10
Selenium, mg/kg dw	1.3U
Silver, mg/kg dw	1.3U
Tin, mg/kg dw	6.3U
Thallium, mg/kg dw	1.3U
Vanadium, mg/kg dw	23
Zinc, mg/kg dw	50
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	01.03.00
Batch ID	1126C

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LOG NO: S9-17757
Received: 17 NOV 99
Reported: 14 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-12	SS32901611169900S	11-16-99/13:10	WRR005

PARAMETER	17757-12
Mercury (7471)	
Mercury, mg/kg dw	0.040N
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206R
Organic Carbon (WALKLEY-BLACK), mg/kg dw	11000
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
pH in Soil (9045)	
pH, units	7.92
Prep Date	12.03.99
Analysis Date	12.03.99
Batch ID	1203Y
Moisture (% Loss on drying @ 105 C), %	27
Prep Date	12.07.99
Analysis Date	12.07.99

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17757-12	SS32901611169900S	11-16-99/13:10	WRR005

PARAMETER	17757-12
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	270U
Surrogate - a,a,a-Trifluorotoluene	138 %
Dilution Factor	1.0
Analysis Date	11.24.99
Batch ID	1A1124A
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	4.1U
Surrogate - o-Terphenyl	67 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.23.99
Batch ID	1119U
Cyanide, Total (9010), mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.29.99
Batch ID	1126S
Sulfide (9030), mg/kg dw	32U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A

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PARAMETER	17757-12
Percent Solids	79

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	25U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	10U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	5.0U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
cis-1,2-Dichloroethene, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
Methylene chloride (Dichloromethane), ug/l	5.0U
1,2-Dichloropropane, ug/l	5.0U
cis-1,3-Dichloropropene, ug/l	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methyl ethyl ketone, ug/l	25U
Iodomethane (Methyl iodide), ug/l	5.0U
Methacrylonitrile, ug/l	100U
4-Methyl-2-pentanone (MIBK), ug/l	25U
Pentachloroethane, ug/l	25U
Styrene, ug/l	5.0U
1,1,1,2-Tetrachloroethane, ug/l	5.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Carbon tetrachloride, ug/l	5.0U
Toluene, ug/l	5.0U
Bromoform, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
1,2,3-Trichloropropane, ug/l	5.0U
Vinyl acetate, ug/l	10U

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17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
Vinyl chloride, ug/l	10U
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	92 %
Surrogate - 4-Bromofluorobenzene	88 %
Surrogate - Dibromofluoromethane	84 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	3M1129

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17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/l	10U
2-Acetylaminofluorene, ug/l	10U
4-Aminobiphenyl, ug/l	10U
Aniline, ug/l	20U
Aramite (total), ug/l	10U
Benzyl alcohol, ug/l	10U
bis(2-Chloroethoxy)methane, ug/l	10U
bis(2-Chloroethyl)ether, ug/l	10U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/l	10U
bis(2-Ethylhexyl)phthalate, ug/l	10U
4-Bromophenylphenyl ether, ug/l	10U
Butylbenzylphthalate, ug/l	10U
4-Chloroaniline (p-Chloroaniline), ug/l	20U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/l	10U
2-Chloronaphthalene, ug/l	10U
2-Chlorophenol, ug/l	10U
4-Chlorophenylphenyl ether, ug/l	10U
Cresol, m & p, ug/l	10U
Cresol (ortho), ug/l	10U
Diallate, Total, ug/l	10U
Dibenzofuran, ug/l	10U

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17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13		
Di-n-butylphthalate, ug/l	10U		
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/l	10U		
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/l	10U		
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/l	10U		
3,3'-Dichlorobenzidine, ug/l	20U		
2,4-Dichlorophenol, ug/l	10U		
2,6-Dichlorophenol, ug/l	10U		
Diethylphthalate, ug/l	10U		
p-(Dimethylamino)azobenzene, ug/l	10U		
7,12-Dimethylbenz(a)anthracene, ug/l	10U		
3,3'-Dimethylbenzidine, ug/l	20U		
alpha,alpha-Dimethylphenethylamine, ug/l	2000U		
2,4-Dimethylphenol, ug/l	10U		
Dimethylphthalate, ug/l	10U		
m-Dinitrobenzene , ug/l	10U		
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/l	50U		
2,4-Dinitrophenol, ug/l	50U		
2,4-Dinitrotoluene, ug/l	10U		
2,6-Dinitrotoluene, ug/l	10U		
Di-n-octylphthalate, ug/l	10U		
1,4-Dioxane, ug/l	10U		
Ethyl methanesulfonate, ug/l	10U		
Hexachlorobenzene, ug/l	10U		

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17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
Hexachlorobutadiene, ug/l	10U
Hexachlorocyclopentadiene, ug/l	10U
Hexachloroethane, ug/l	10U
Hexachlorophene, ug/l	5000U
Hexachloropropene, ug/l	10U
Isophorone, ug/l	10U
Isosafrole, ug/l	10U
Methapyrilene, ug/l	2000U
3-Methylcholanthrene, ug/l	10U
Methyl methanesulfonate, ug/l	10U
2-Methylnaphthalene, ug/l	10U
1,4-Naphthoquinone, ug/l	10U
1-Naphthylamine, ug/l	10U
2-Naphthylamine, ug/l	10U
2-Nitroaniline (o-Nitroaniline), ug/l	50U
3-Nitroaniline (m-Nitroaniline), ug/l	50U
4-Nitroaniline (p-Nitroaniline), ug/l	50U
Nitrobenzene, ug/l	10U
2-Nitrophenol (o-Nitrophenol), ug/l	10U
4-Nitrophenol (p-Nitrophenol), ug/l	50U
4-Nitroquinoline-1-oxide, ug/l	20U
N-Nitrosodi-n-butylamine, ug/l	10U
N-Nitrosodiethylamine, ug/l	10U

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17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13		
N-Nitrosodimethylamine, ug/l	10U		
N-Nitrosodiphenylamine/Diphenylamine, ug/l	10U		
n-Nitrosodi-n-propylamine, ug/l	10U		
N-Nitrosomethylethylamine, ug/l	10U		
N-Nitrosomorpholine, ug/l	10U		
N-Nitrosopiperidine, ug/l	10U		
N-Nitrosopyrrolidine, ug/l	10U		
5-Nitro-o-toluidine, ug/l	10U		
Pentachlorobenzene, ug/l	10U		
Pentachloronitrobenzene, ug/l	10U		
Pentachlorophenol, ug/l	50U		
Phenacetin, ug/l	10U		
Phenol, ug/l	10U		
1,4-Phenylenediamine (p-Phenylenediamine), ug/l	2000U		
2-Picoline, ug/l	10U		
Pronamide, ug/l	10U		
Pyridine, ug/l	50U		
Safrole, ug/l	10U		
1,2,4,5-Tetrachlorobenzene, ug/l	10U		
2,3,4,6-Tetrachlorophenol, ug/l	10U		
o-Toluidine, ug/l	10U		
1,2,4-Trichlorobenzene, ug/l	10U		
2,4,5-Trichlorophenol, ug/l	10U		

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17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
2,4,6-Trichlorophenol, ug/l	10U
O,O,O-Triethyl phosphorothioate, ug/l	10U
1,3,5-Trinitrobenzene, ug/l	10U
Famphur, ug/l	10U
Dimethoate, ug/l	10U
1-Methylnaphthalene, ug/l	10U
Quinoline, ug/l	50U
Benzenethiol, ug/l	50U
Kepone, ug/l	10U
Dimethoate, ug/l	10U
1,2-Dichlorobenzene, ug/l	10U
1,3-Dichlorobenzene, ug/l	10U
1,4-Dichlorobenzene, ug/l	10U
Surrogate - Phenol-d5	74 %
Surrogate - 2-Fluorophenol	90 %
Surrogate - 2,4,6-Tribromophenol	87 %
Surrogate - Nitrobenzene-d5	88 %
Surrogate - 2-Fluorobiphenyl	90 %
Surrogate - Terphenyl-d14	90 %
Dilution Factor	1.0
Prep Date	11.22.99
Analysis Date	11.29.99
Batch ID	1122C

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17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
Polynuclear Aromatics (8310)	
Acenaphthene, ug/l	1.0U
Anthracene, ug/l	0.20U
Benzo(a)anthracene, ug/l	0.20U
Benzo(a)pyrene, ug/l	0.20U
Benzo(b)fluoranthene, ug/l	0.20U
Benzo(g,h,i)perylene, ug/l	0.50U
Benzo(k)fluoranthene, ug/l	0.20U
Chrysene, ug/l	0.20U
Dibenzo(a,h)anthracene, ug/l	0.20U
Fluoranthene, ug/l	0.50U
Fluorene, ug/l	0.50U
Indeno(1,2,3-cd)pyrene, ug/l	0.20U
Naphthalene, ug/l	1.0U
Phenanthrene, ug/l	0.20U
Pyrene, ug/l	0.50U
Surrogate - Terphenyl-d14	80 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.28.99
Batch ID	1119J

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17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
Metals (6010)	
Antimony, mg/l	0.020U
Arsenic, mg/l	0.0032U
Barium, mg/l	0.010U
Beryllium, mg/l	0.0014U
Cadmium, mg/l	0.0050U
Chromium, mg/l	0.010U
Cobalt, mg/l	0.010U
Copper, mg/l	0.020U
Nickel, mg/l	0.040U
Lead, mg/l	0.0050U
Selenium, mg/l	0.010U
Silver, mg/l	0.010U
Tin, mg/l	0.050U
Thallium, mg/l	0.010U
Vanadium, mg/l	0.010U
Zinc, mg/l	0.020U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
Mercury (7470)	
Mercury, mg/l	0.00020U
Dilution Factor	1.0
Prep Date	12.01.99
Analysis Date	12.02.99
Batch ID	1201T
Cyanide (9010)	
Cyanide, Total, mg/l	0.010U
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126S
Sulfide (9030), mg/l	1.0U
Dilution Factor	1
Prep Date	11.23.99
Analysis Date	11.23.99
Batch ID	1123A
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/l	50U
Surrogate - a,a,a-Trifluorotoluene	120 %
Dilution Factor	1.0
Analysis Date	11.23.99
Batch ID	1D1123A

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Reported: 14 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-13	W3290071116990EB	11-16-99/13:30	WRR005

PARAMETER	17757-13
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/l	0.10U
Surrogate - o-Terphenyl	90 %
Dilution Factor	1.0
Prep Date	11.19.99
Analysis Date	11.23.99
Batch ID	1119W

Elizabeth F. Beauchamp, Project Manager

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Received: 17 NOV 99
Reported: 14 JAN 00

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Contract No.: S7219
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Sampled By: Client
Code: 091400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-14	Trip Blank TB012 (942c)	11-16-99	WRR005

PARAMETER	17757-14
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	50U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	10U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	5.0U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
cis-1,2-Dichloroethene, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U

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Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-14	Trip Blank TB012 (942c)	11-16-99	WRR005

PARAMETER	17757-14
Methylene chloride (Dichloromethane), ug/l	5.0U
1,2-Dichloropropane, ug/l	5.0U
cis-1,3-Dichloropropene, ug/l	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methyl ethyl ketone, ug/l	25U
Iodomethane (Methyl iodide), ug/l	5.0U
Methacrylonitrile, ug/l	100U
4-Methyl-2-pentanone (MIBK), ug/l	25U
Pentachloroethane, ug/l	25U
Styrene, ug/l	5.0U
1,1,1,2-Tetrachloroethane, ug/l	5.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Carbon tetrachloride, ug/l	5.0U
Toluene, ug/l	5.0U
Bromoform, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
1,2,3-Trichloropropane, ug/l	5.0U
Vinyl acetate, ug/l	10U

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Reported: 14 JAN 00

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Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-14	Trip Blank TB012 (942c)	11-16-99	WRR005

PARAMETER	17757-14
Vinyl chloride, ug/l	10U
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	92 %
Surrogate - 4-Bromofluorobenzene	88 %
Surrogate - Dibromofluoromethane	86 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	3M1129

Methods: EPA SW-846, Update III.

Y = Control limits are established only for surrogate concentration levels specified by EPA methods. Because the sample was diluted priorto analysis, surrogate recoveries are not reported.
X = Surrogate recovery was outside established limits due to a coeluting matrix interference in the sample.

Elizabeth F. Beauchamp, Project Manager

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Received: 17 NOV 99
Reported: 14 JAN 00

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Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-15	Trip Blank TB013 (942c)	11-16-99	WRR005

PARAMETER	17757-15				
Volatile Organic Compounds (8260)					
Acetonitrile, ug/l	200U				
Acetone, ug/l	25U				
Benzene, ug/l	5.0U				
Bromodichloromethane, ug/l	5.0U				
Bromomethane (Methyl bromide), ug/l	10U				
Carbon disulfide, ug/l	5.0U				
Chlorobenzene, ug/l	5.0U				
Dibromochloromethane, ug/l	5.0U				
Chloroethane, ug/l	10U				
Chloromethane (Methyl chloride), ug/l	10U				
Chloroform, ug/l	5.0U				
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U				
Chloroprene, ug/l	5.0U				
1,2-Dibromo-3-chloropropane, ug/l	10U				
1,2-Dibromoethane (EDB), ug/l	5.0U				
trans-1,4-Dichloro-2-butene, ug/l	5.0U				
Dichlorodifluoromethane, ug/l	5.0U				
1,1-Dichloroethane, ug/l	5.0U				
1,2-Dichloroethane, ug/l	5.0U				
cis-1,2-Dichloroethene, ug/l	5.0U				
trans-1,2-Dichloroethene, ug/l	5.0U				
1,1-Dichloroethylene, ug/l	5.0U				

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Received: 17 NOV 99
Reported: 14 JAN 00

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Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-15	Trip Blank TB013 (942c)	11-16-99	WRR005

PARAMETER	17757-15
Methylene chloride (Dichloromethane), ug/l	5.0U
1,2-Dichloropropane, ug/l	5.0U
cis-1,3-Dichloropropene, ug/l	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methyl ethyl ketone, ug/l	25U
Iodomethane (Methyl iodide), ug/l	5.0U
Methacrylonitrile, ug/l	100U
4-Methyl-2-pentanone (MIBK), ug/l	25U
Pentachloroethane, ug/l	25U
Styrene, ug/l	5.0U
1,1,1,2-Tetrachloroethane, ug/l	5.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Carbon tetrachloride, ug/l	5.0U
Toluene, ug/l	5.0U
Bromoform, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
1,2,3-Trichloropropane, ug/l	5.0U
Vinyl acetate, ug/l	10U

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Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-15	Trip Blank TB013 (942c)	11-16-99	WRR005

PARAMETER	17757-15
Vinyl chloride, ug/l	10U
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	78 %
Surrogate - Dibromofluoromethane	80 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1M1130

Methods: EPA SW-846, Update III.

Y = Control limits are established only for surrogate concentration levels specified by EPA methods. Because the sample was diluted priorto analysis, surrogate recoveries are not reported.
X = Surrogate recovery was outside established limits due to a coeluting matrix interference in the sample.

Elizabeth F. Beauchamp, Project Manager

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Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091500117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-16	Trip Blank TB014 (942c)	11-16-99	WRR005

PARAMETER	17757-16
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	50U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	10U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	5.0U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
cis-1,2-Dichloroethene, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U

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Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091500117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-16	Trip Blank TB014 (942c)	11-16-99	WRR005

PARAMETER	17757-16
Methylene chloride (Dichloromethane), ug/l	5.0U
1,2-Dichloropropane, ug/l	5.0U
cis-1,3-Dichloropropene, ug/l	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methyl ethyl ketone, ug/l	25U
Iodomethane (Methyl iodide), ug/l	5.0U
Methacrylonitrile, ug/l	100U
4-Methyl-2-pentanone (MIBK), ug/l	25U
Pentachloroethane, ug/l	25U
Styrene, ug/l	5.0U
1,1,1,2-Tetrachloroethane, ug/l	5.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Carbon tetrachloride, ug/l	5.0U
Toluene, ug/l	5.0U
Bromoform, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
1,2,3-Trichloropropane, ug/l	5.0U
Vinyl acetate, ug/l	10U

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Received: 17 NOV 99
Reported: 14 JAN 00

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Contract No.: S7219
Project: WRR005/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 091500117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17757-16	Trip Blank TB014 (942c)	11-16-99	WRR005

PARAMETER	17757-16
Vinyl chloride, ug/l	10U
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	84 %
Surrogate - Dibromofluoromethane	84 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1M1130

Methods: EPA SW-846, Update III.

Y = Control limits are established only for surrogate concentration levels specified by EPA methods. Because the sample was diluted priorto analysis, surrogate recoveries are not reported.
X = Surrogate recovery was outside established limits due to a coeluting matrix interference in the sample.

Elizabeth F. Beauchamp, Project Manager

ORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR006)
NO. OF SAMPLES/
MATRIX 16 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/18/00

DATA ASSESSMENT WORKSHEET

	(VOCs) Meth # 8260	(SVOCs) Meth # 8270	(PAHs) Meth # 8310	(DRO) Meth #8015	(GRO) Meth #8015M	(TOC) Meth # Walkley-Black
1. HOLDING TIMES	✓	(2)	(4)	✓	✓	✓
2. BLANKS	✓	✓	✓	✓	✓	✓
3. SURROGATES	(1)	(3)	(5)	(9)	✓	N/A
4. SCS (LCS)	✓	✓	✓	✓	✓	✓
5. DCS (LSCD)	N/A	N/A	✓	N/A	N/A	N/A
6. MATIX SPIKE/DUP	✓	✓	(6)	(10)	✓	N/A
7. DILUTIONS	✓	✓	(7)	✓	✓	✓
8. DUPLICATES	✓	✓	(8)	(11)	✓	✓
9. OVERALL ASSESSMENT	O	O	O/X	O/X	O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (1) Recovery of p-bromofluorobenzene was low for sample SS337001 & its reanalysis. Therefore, these sample results were qualified as estimated and estimated non-detect.
(8) Duplicate results for samples SS330001 & SS330001D exceeded acceptable limits for benzo(b)fluoranthene. Therefore, these sample results/analyte were qualified as estimated.
(11) Duplicate results for samples SS330001 & SS330001D exceeded acceptable limits. Therefore, the sample results were qualified as estimated.

COMMENTS: (2) The holding times for liquid analysis were exceeded by 1 day. However, since the LCS/LCSD recoveries were within control limits, no action is necessary.
(3) 2-fluorobiphenyl was outside limits for the method blank 1130A. However, since the other base neutral surrogate is within limits, no action is necessary.
(4) Sample W331008 exceeded its hold time by 1 day. However, since the LCS/LCSD recoveries were within control limits, no action is necessary.

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR006)
NO. OF SAMPLES/
MATRIX 16 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/18/00

COMMENTS (continued): (5) Surrogate recoveries were outside limits for most samples due to abundance of target analyte, or no recoveries at all due to dilutions. However, since the LCS/LCSD recoveries/RPDs were within control limits, no action is necessary.
(6) MS/MSD recoveries were low for 1-methylnaphthalene, 2-methylnaphthalene, and dibenzo(a,h)anthracene, due to dilutions. However, since the LCS/LCSD recoveries/RPDs were within control limits, no action is necessary.
(7) Samples SS330001, SS330010(DL), SS330010D, SS331001, SS331005, SS331005D, SS332001, SS333001, SS336001, SS337010, and SS337010D were all diluted by various amounts (10, 50, 100x's), however no action is necessary.
(9) % recoveries were not possible for samples SS330001, SS332001, and SS333001, due to abundance of target analyte. However, since the LCS recoveries were within control limits, no action is necessary.
(10) % recoveries were outside acceptance criteria. However, since the sample results were >4x's the spike amount added, and the LCS results are within control limits, no action is necessary.

INORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR006)
NO. OF SAMPLES/
MATRIX 16 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/18/00

DATA ASSESSMENT WORKSHEET

	(Metals) Meth # 6010	(Mercury) Meth # 7471	Meth #	(Cyanide) Meth # 9010	(Sulfide) Meth # 9030
1. HOLDING TIMES	✓	✓		✓	✓
2. BLANKS	✓	✓		✓	(14)
3. DUPLICATES	(12)	✓		✓	✓
4. SCS (LCS)	✓	✓		✓	✓
5. DCS (LSCD)	N/A	N/A		N/A	N/A
6. MATIX SPIKE/DUP	(13)	✓		✓	(16)
7. DILUTIONS	(14&15)	✓		✓	✓
8.	O	O		O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (12) The duplicate results (RPD) were high for zinc in sample SS331001 (MS/MSD), for chromium in samples SS331005 and SS331005D, and for chromium, lead, vanadium, and zinc in samples SS330001 and SS330001D. Therefore, all related samples/analytes were qualified as estimated.
(13) The % recoveries for barium and lead in sample SS331001 were low. Therefore, the sample/analyte results were qualified as estimated.
(15) The serial dilution for zinc was >10x's due to matrix interference. Therefore, the associated sample result (SS331001) was qualified as estimated (based on a full validation criteria only).

COMMENTS: (14) Samples SS330010 and SS330010D were diluted by 2x's and 20x's for various analytes, however no action is necessary.
qualified this data as estimated, however, no additional qualifiers have been added by us.
(16) The MS % recovery was outside control limits. However, since the LCS recovery was within control limits, no action is necessary.

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LOG NO: S9-17852
Received: 19 NOV 99

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Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	260U
Acetone, ug/kg dw	65U
Benzene, ug/kg dw	6.5U
Bromodichloromethane, ug/kg dw	6.5U
Bromomethane (Methyl bromide), ug/kg dw	13U
Carbon disulfide, ug/kg dw	6.5U
Chlorobenzene, ug/kg dw	6.5U
Dibromochloromethane, ug/kg dw	6.5U
Chloroethane, ug/kg dw	13U
Chloromethane (Methyl chloride), ug/kg dw	13U
Chloroform, ug/kg dw	6.5U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	6.5U
Chloroprene, ug/kg dw	6.5U
1,2-Dibromo-3-chloropropane, ug/kg dw	13U
1,2-Dibromoethane (EDB), ug/kg dw	6.5U
trans-1,4-Dichloro-2-butene, ug/kg dw	6.5U
Dichlorodifluoromethane, ug/kg dw	6.5U
1,1-Dichloroethane, ug/kg dw	6.5U
1,2-Dichloroethane, ug/kg dw	6.5U
trans-1,2-Dichloroethene, ug/kg dw	6.5U
1,1-Dichloroethylene, ug/kg dw	6.5U
Methylene chloride (Dichloromethane), ug/kg dw	6.5U

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LOG NO: S9-17852
Received: 19 NOV 99

Ms. Heather Halderman
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2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1
1,2-Dichloropropane, ug/kg dw	6.5U
cis-1,3-Dichloropropene, ug/kg dw	6.5U
trans-1,3-Dichloropropene, ug/kg dw	6.5U
Ethylbenzene, ug/kg dw	6.5U
Methyl ethyl ketone, ug/kg dw	32U
Iodomethane (Methyl iodide), ug/kg dw	6.5U
Methacrylonitrile, ug/kg dw	130U
4-Methyl-2-pentanone (MIBK), ug/kg dw	32U
Pentachloroethane, ug/kg dw	32U
Styrene, ug/kg dw	6.5U
1,1,1,2-Tetrachloroethane, ug/kg dw	6.5U
1,1,2,2-Tetrachloroethane, ug/kg dw	6.5U
Tetrachloroethene, ug/kg dw	6.5U
Carbon tetrachloride, ug/kg dw	6.5U
Toluene, ug/kg dw	6.5U
Bromoform, ug/kg dw	6.5U
1,1,2-Trichloroethane, ug/kg dw	6.5U
1,1,1-Trichloroethane, ug/kg dw	6.5U
Trichloroethene, ug/kg dw	6.5U
Trichlorofluoromethane, ug/kg dw	6.5U
1,2,3-Trichloropropane, ug/kg dw	6.5U
Vinyl acetate, ug/kg dw	13U
Vinyl chloride, ug/kg dw	13U

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17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1
Xylenes, Total, ug/kg dw	13U
2-Hexanone, ug/kg dw	32U
Propionitrile, ug/kg dw	130U
Methyl methacrylate, ug/kg dw	6.5U
Acrolein (Propenal), ug/kg dw	130U
Acrylonitrile, ug/kg dw	130U
Ethyl methacrylate, ug/kg dw	6.5U
Isobutanol (Isobutyl alcohol), ug/kg dw	260U
Dibromomethane, ug/kg dw	6.5U
Surrogate - Toluene-d8	92 %
Surrogate - 4-Bromofluorobenzene	82 %
Surrogate - Dibromofluoromethane	78 %
cis-1,2-Dichloroethene, ug/kg dw	6.5U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201

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17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	390U
2-Acetylaminofluorene, ug/kg dw	390U
4-Aminobiphenyl, ug/kg dw	390U
Aniline, ug/kg dw	390U
Benzyl alcohol, ug/kg dw	390U
bis(2-Chloroethoxy)methane, ug/kg dw	390U
bis(2-Chloroethyl)ether, ug/kg dw	390U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	390U
bis(2-Ethylhexyl)phthalate, ug/kg dw	390U
4-Bromophenylphenyl ether, ug/kg dw	390U
Butylbenzylphthalate, ug/kg dw	390U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	780U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	390U
2-Chloronaphthalene, ug/kg dw	390U
2-Chlorophenol, ug/kg dw	390U
4-Chlorophenylphenyl ether, ug/kg dw	390U
Cresol, m & p, ug/kg dw	390U
Cresol (ortho), ug/kg dw	390U
Dibenzofuran, ug/kg dw	390U
Di-n-butylphthalate, ug/kg dw	390U
3,3'-Dichlorobenzidine, ug/kg dw	780U

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17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1
2,4-Dichlorophenol, ug/kg dw	390U
2,6-Dichlorophenol, ug/kg dw	390U
Diethylphthalate, ug/kg dw	390U
p-(Dimethylamino)azobenzene, ug/kg dw	390U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	390U
3,3'-Dimethylbenzidine, ug/kg dw	780U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	80000U
2,4-Dimethylphenol, ug/kg dw	390U
Dimethylphthalate, ug/kg dw	390U
m-Dinitrobenzene , ug/kg dw	390U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2000U
2,4-Dinitrophenol, ug/kg dw	2000U
2,4-Dinitrotoluene, ug/kg dw	390U
2,6-Dinitrotoluene, ug/kg dw	390U
Di-n-octylphthalate, ug/kg dw	390U
1,4-Dioxane, ug/kg dw	390U
Ethyl methanesulfonate, ug/kg dw	390U
Hexachlorobenzene, ug/kg dw	390U
Hexachlorobutadiene, ug/kg dw	390U
Hexachlorocyclopentadiene, ug/kg dw	390U
Hexachloroethane, ug/kg dw	390U
Hexachlorophene, ug/kg dw	24000U

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PARAMETER	17852-1		
Hexachloropropene, ug/kg dw	390U		
Isophorone, ug/kg dw	390U		
Isosafrole, ug/kg dw	390U		
Methapyrilene, ug/kg dw	7800U		
3-Methylcholanthrene, ug/kg dw	390U		
Methyl methanesulfonate, ug/kg dw	390U		
2-Methylnaphthalene, ug/kg dw	390U		
1,4-Naphthoquinone, ug/kg dw	390U		
1-Naphthylamine, ug/kg dw	390U		
2-Naphthylamine, ug/kg dw	390U		
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2000U		
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2000U		
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2000U		
Nitrobenzene, ug/kg dw	390U		
2-Nitrophenol (o-Nitrophenol), ug/kg dw	390U		
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2000U		
4-Nitroquinoline-1-oxide, ug/kg dw	3900U		
N-Nitrosodi-n-butylamine, ug/kg dw	390U		
N-Nitrosodiethylamine, ug/kg dw	390U		
N-Nitrosodimethylamine, ug/kg dw	390U		
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	390U		
n-Nitrosodi-n-propylamine, ug/kg dw	390U		
N-Nitrosomethylethylamine, ug/kg dw	390U		

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1
N-Nitrosomorpholine, ug/kg dw	390U
N-Nitrosopiperidine, ug/kg dw	390U
N-Nitrosopyrrolidine, ug/kg dw	390U
5-Nitro-o-toluidine, ug/kg dw	390U
Pentachlorobenzene, ug/kg dw	390U
Pentachloronitrobenzene, ug/kg dw	390U
Pentachlorophenol, ug/kg dw	2000U
Phenacetin, ug/kg dw	390U
Phenol, ug/kg dw	390U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2000U
2-Picoline, ug/kg dw	390U
Pronamide, ug/kg dw	390U
Pyridine, ug/kg dw	390U
Safrole, ug/kg dw	390U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	390U
2,3,4,6-Tetrachlorophenol, ug/kg dw	390U
o-Toluidine, ug/kg dw	390U
1,2,4-Trichlorobenzene, ug/kg dw	390U
2,4,5-Trichlorophenol, ug/kg dw	390U
2,4,6-Trichlorophenol, ug/kg dw	390U
O,O,O-Triethyl phosphorothioate, ug/kg dw	390U
1,3,5-Trinitrobenzene, ug/kg dw	390U
Famphur, ug/kg dw	390U

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PARAMETER	17852-1
Dimethoate, ug/kg dw	390U
Diallate, Total, ug/kg dw	390U
Aramite (total), ug/kg dw	390U
Quinoline, ug/kg dw	780U
Benzenethiol, ug/kg dw	780U
Kepone, ug/kg dw	390U
1-Methylnaphthalene, ug/kg dw	390U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	390U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	390U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	390U
Surrogate - Phenol-d5	52 %
Surrogate - 2-Fluorophenol	60 %
Surrogate - 2,4,6-Tribromophenol	55 %
Surrogate - Nitrobenzene-d5	55 %
Surrogate - 2-Fluorobiphenyl	55 %
Surrogate - Terphenyl-d14	55 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	600U
Anthracene, ug/kg dw	180
Benzo(a)anthracene, ug/kg dw	470
Benzo(a)pyrene, ug/kg dw	280P
Benzo(b)fluoranthene, ug/kg dw	130P
Benzo(g,h,i)perylene, ug/kg dw	590P
Benzo(k)fluoranthene, ug/kg dw	48U
Chrysene, ug/kg dw	840
Dibenzo(a,h)anthracene, ug/kg dw	160P
Fluoranthene, ug/kg dw	940P
Fluorene, ug/kg dw	120U
Indeno(1,2,3-cd)pyrene, ug/kg dw	120U
Naphthalene, ug/kg dw	240U
Phenanthrene, ug/kg dw	1100P
Pyrene, ug/kg dw	490P
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130J

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17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1	
Metals (6010)		
Antimony, mg/kg dw	4.8U	
Arsenic, mg/kg dw	7.2	
Barium, mg/kg dw	270N	J
Beryllium, mg/kg dw	0.78	
Cadmium, mg/kg dw	0.60U	
Chromium, mg/kg dw	130	
Cobalt, mg/kg dw	6.7	
Copper, mg/kg dw	30	
Nickel, mg/kg dw	23	
Lead, mg/kg dw	68N	J
Selenium, mg/kg dw	1.2U	
Silver, mg/kg dw	1.2U	
Tin, mg/kg dw	6.0U	
Thallium, mg/kg dw	1.2U	
Vanadium, mg/kg dw	32	
Zinc, mg/kg dw	130E*	J
Dilution Factor	1.0	
Prep Date	11.30.99	
Analysis Date	12.02.99	
Batch ID	1130C	

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17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1
Mercury (7471)	
Mercury, mg/kg dw	0.41
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Organic Carbon (WALKLEY-BLACK), mg/kg dw	15000
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
pH in Soil (9045)	
pH, units	7.32
Dilution Factor	1.0
Prep Date	12.21.99
Analysis Date	12.21.99
Batch ID	1221Y
Moisture (% Loss on drying @ 105 C), %	15 %

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17852-1	SS33100111189900S	11-18-99/13:35	WRR006

PARAMETER	17852-1
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	12.01.99
Analysis Date	12.02.99
Batch ID	1201S
Sulfide (9030), mg/kg dw	30U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A
Percent Solids	84

Elizabeth F. Beauchamp, Project Manager

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-2	SS33100511189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	220U
Acetone, ug/kg dw	76
Benzene, ug/kg dw	5.6U
Bromodichloromethane, ug/kg dw	5.6U
Bromomethane (Methyl bromide), ug/kg dw	11U
Carbon disulfide, ug/kg dw	5.6U
Chlorobenzene, ug/kg dw	5.6U
Dibromochloromethane, ug/kg dw	5.6U
Chloroethane, ug/kg dw	11U
Chloromethane (Methyl chloride), ug/kg dw	11U
Chloroform, ug/kg dw	5.6U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.6U
Chloroprene, ug/kg dw	5.6U
1,2-Dibromo-3-chloropropane, ug/kg dw	11U
1,2-Dibromoethane (EDB), ug/kg dw	5.6U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.6U
Dichlorodifluoromethane, ug/kg dw	5.6U
1,1-Dichloroethane, ug/kg dw	5.6U
1,2-Dichloroethane, ug/kg dw	5.6U
trans-1,2-Dichloroethene, ug/kg dw	5.6U
1,1-Dichloroethylene, ug/kg dw	5.6U
Methylene chloride (Dichloromethane), ug/kg dw	5.6U

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17852-2	SS33100511189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
1,2-Dichloropropane, ug/kg dw	5.6U
cis-1,3-Dichloropropene, ug/kg dw	5.6U
trans-1,3-Dichloropropene, ug/kg dw	5.6U
Ethylbenzene, ug/kg dw	5.6U
Methyl ethyl ketone, ug/kg dw	110U
Iodomethane (Methyl iodide), ug/kg dw	5.6U
Methacrylonitrile, ug/kg dw	110U
4-Methyl-2-pentanone (MIBK), ug/kg dw	28U
Pentachloroethane, ug/kg dw	28U
Styrene, ug/kg dw	5.6U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.6U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.6U
Tetrachloroethene, ug/kg dw	5.6U
Carbon tetrachloride, ug/kg dw	5.6U
Toluene, ug/kg dw	5.6U
Bromoform, ug/kg dw	5.6U
1,1,2-Trichloroethane, ug/kg dw	5.6U
1,1,1-Trichloroethane, ug/kg dw	5.6U
Trichloroethene, ug/kg dw	5.6U
Trichlorofluoromethane, ug/kg dw	5.6U
1,2,3-Trichloropropane, ug/kg dw	5.6U
Vinyl acetate, ug/kg dw	11U
Vinyl chloride, ug/kg dw	11U

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17852-2	SS331005111899 00S	11-18-99/13:40	WRR006

PARAMETER	17852-2
Xylenes, Total, ug/kg dw	11U
2-Hexanone, ug/kg dw	28U
Propionitrile, ug/kg dw	110U
Methyl methacrylate, ug/kg dw	5.6U
Acrolein (Propenal), ug/kg dw	110U
Acrylonitrile, ug/kg dw	110U
Ethyl methacrylate, ug/kg dw	5.6U
Isobutanol (Isobutyl alcohol), ug/kg dw	220U
Dibromomethane, ug/kg dw	5.6U
Surrogate - Toluene-d8	88 %
Surrogate - 4-Bromofluorobenzene	75 %
Surrogate - Dibromofluoromethane	77 %
cis-1,2-Dichloroethene, ug/kg dw	5.6U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201

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LOG NO: S9-17852
Received: 19 NOV 99

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-2	SS33100511189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	410U
2-Acetylaminofluorene, ug/kg dw	410U
4-Aminobiphenyl, ug/kg dw	410U
Aniline, ug/kg dw	410U
Benzyl alcohol, ug/kg dw	410U
bis(2-Chloroethoxy)methane, ug/kg dw	410U
bis(2-Chloroethyl)ether, ug/kg dw	410U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy l)ether], ug/kg dw	410U
bis(2-Ethylhexyl)phthalate, ug/kg dw	410U
4-Bromophenylphenyl ether, ug/kg dw	410U
Butylbenzylphthalate, ug/kg dw	410U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	820U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	410U
2-Chloronaphthalene, ug/kg dw	410U
2-Chlorophenol, ug/kg dw	410U
4-Chlorophenylphenyl ether, ug/kg dw	410U
Cresol, m & p, ug/kg dw	410U
Cresol (ortho), ug/kg dw	410U
Dibenzofuran, ug/kg dw	410U
Di-n-butylphthalate, ug/kg dw	410U
3,3'-Dichlorobenzidine, ug/kg dw	820U

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Sampled By: Client
Code: 161000117

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17852-2	SS33100511189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
2,4-Dichlorophenol, ug/kg dw	410U
2,6-Dichlorophenol, ug/kg dw	410U
Diethylphthalate, ug/kg dw	410U
p-(Dimethylamino)azobenzene, ug/kg dw	410U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	410U
3,3'-Dimethylbenzidine, ug/kg dw	820U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	84000U
2,4-Dimethylphenol, ug/kg dw	410U
Dimethylphthalate, ug/kg dw	410U
m-Dinitrobenzene , ug/kg dw	410U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2100U
2,4-Dinitrophenol, ug/kg dw	2100U
2,4-Dinitrotoluene, ug/kg dw	410U
2,6-Dinitrotoluene, ug/kg dw	410U
Di-n-octylphthalate, ug/kg dw	410U
1,4-Dioxane, ug/kg dw	410U
Ethyl methanesulfonate, ug/kg dw	410U
Hexachlorobenzene, ug/kg dw	410U
Hexachlorobutadiene, ug/kg dw	410U
Hexachlorocyclopentadiene, ug/kg dw	410U
Hexachloroethane, ug/kg dw	410U
Hexachlorophene, ug/kg dw	25000U

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17852-2	SS33100511189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
Hexachloropropene, ug/kg dw	410U
Isophorone, ug/kg dw	410U
Isosafrole, ug/kg dw	410U
Methapyrilene, ug/kg dw	8200U
3-Methylcholanthrene, ug/kg dw	410U
Methyl methanesulfonate, ug/kg dw	410U
2-Methylnaphthalene, ug/kg dw	410U
1,4-Naphthoquinone, ug/kg dw	410U
1-Naphthylamine, ug/kg dw	410U
2-Naphthylamine, ug/kg dw	410U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2100U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2100U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2100U
Nitrobenzene, ug/kg dw	410U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	410U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2100U
4-Nitroquinoline-1-oxide, ug/kg dw	4100U
N-Nitrosodi-n-butylamine, ug/kg dw	410U
N-Nitrosodiethylamine, ug/kg dw	410U
N-Nitrosodimethylamine, ug/kg dw	410U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	410U
n-Nitrosodi-n-propylamine, ug/kg dw	410U
N-Nitrosomethylethylamine, ug/kg dw	410U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-2	SS33100511189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
N-Nitrosomorpholine, ug/kg dw	410U
N-Nitrosopiperidine, ug/kg dw	410U
N-Nitrosopyrrolidine, ug/kg dw	410U
5-Nitro-o-toluidine, ug/kg dw	410U
Pentachlorobenzene, ug/kg dw	410U
Pentachloronitrobenzene, ug/kg dw	410U
Pentachlorophenol, ug/kg dw	2100U
Phenacetin, ug/kg dw	410U
Phenol, ug/kg dw	410U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2100U
2-Picoline, ug/kg dw	410U
Pronamide, ug/kg dw	410U
Pyridine, ug/kg dw	410U
Safrole, ug/kg dw	410U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	410U
2,3,4,6-Tetrachlorophenol, ug/kg dw	410U
o-Toluidine, ug/kg dw	410U
1,2,4-Trichlorobenzene, ug/kg dw	410U
2,4,5-Trichlorophenol, ug/kg dw	410U
2,4,6-Trichlorophenol, ug/kg dw	410U
O,O,O-Triethyl phosphorothioate, ug/kg dw	410U
1,3,5-Trinitrobenzene, ug/kg dw	410U
Famphur, ug/kg dw	410U

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17852-2	SS33100511189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
Dimethoate, ug/kg dw	410U
Diallate, Total, ug/kg dw	410U
Aramite (total), ug/kg dw	410U
Quinoline, ug/kg dw	820U
Benzenethiol, ug/kg dw	820U
Kepone, ug/kg dw	410U
1-Methylnaphthalene, ug/kg dw	410U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	410U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	410U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	410U
Surrogate - Phenol-d5	55 %
Surrogate - 2-Fluorophenol	57 %
Surrogate - 2,4,6-Tribromophenol	57 %
Surrogate - Nitrobenzene-d5	52 %
Surrogate - 2-Fluorobiphenyl	57 %
Surrogate - Terphenyl-d14	52 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-2	SS331005111899005	11-18-99/13:40	WRR006

PARAMETER	17852-2
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	1900U
Anthracene, ug/kg dw	420
Benzo(a)anthracene, ug/kg dw	1200
Benzo(a)pyrene, ug/kg dw	420
Benzo(b)fluoranthene, ug/kg dw	150U
Benzo(g,h,i)perylene, ug/kg dw	540
Benzo(k)fluoranthene, ug/kg dw	150U
Chrysene, ug/kg dw	1000
Dibenzo(a,h)anthracene, ug/kg dw	380U
Fluoranthene, ug/kg dw	610P
Fluorene, ug/kg dw	380U
Indeno(1,2,3-cd)pyrene, ug/kg dw	380U
Naphthalene, ug/kg dw	750U
Phenanthrene, ug/kg dw	1100P
Pyrene, ug/kg dw	1600P
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	30.0
Prep Date	11.30.99
Analysis Date	12.06.99
Batch ID	1130J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-2	SS331005111189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
Metals (6010)	
Antimony, mg/kg dw	5.0U
Arsenic, mg/kg dw	7.4
Barium, mg/kg dw	220N
Beryllium, mg/kg dw	0.85
Cadmium, mg/kg dw	0.62U
Chromium, mg/kg dw	20J
Cobalt, mg/kg dw	15
Copper, mg/kg dw	24
Nickel, mg/kg dw	25
Lead, mg/kg dw	53N
Selenium, mg/kg dw	1.2U
Silver, mg/kg dw	1.2U
Tin, mg/kg dw	6.2U
Thallium, mg/kg dw	1.2U
Vanadium, mg/kg dw	27
Zinc, mg/kg dw	90E*
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-2	SS331005111189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
Mercury (7471)	
Mercury, mg/kg dw	0.26
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Organic Carbon (WALKLEY-BLACK), mg/kg dw	28000
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
pH in Soil (9045)	
pH, units	7.42
Dilution Factor	1.0
Prep Date	12.21.99
Analysis Date	12.21.99
Batch ID	1221Y
Moisture (% Loss on drying @ 105 C), %	24 %

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-2	SS33100511189900S	11-18-99/13:40	WRR006

PARAMETER	17852-2
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	12.01.99
Analysis Date	12.02.99
Batch ID	1201S
Sulfide (9030), mg/kg dw	35
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A
Percent Solids	80

Elizabeth F. Beauchamp, Project Manager

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Contract No.: S7219
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Sampled By: Client
Code: 161100117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	230U
Acetone, ug/kg dw	170
Benzene, ug/kg dw	5.7U
Bromodichloromethane, ug/kg dw	5.7U
Bromomethane (Methyl bromide), ug/kg dw	11U
Carbon disulfide, ug/kg dw	12
Chlorobenzene, ug/kg dw	5.7U
Dibromochloromethane, ug/kg dw	5.7U
Chloroethane, ug/kg dw	11U
Chloromethane (Methyl chloride), ug/kg dw	11U
Chloroform, ug/kg dw	5.7U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.7U
Chloroprene, ug/kg dw	5.7U
1,2-Dibromo-3-chloropropane, ug/kg dw	11U
1,2-Dibromoethane (EDB), ug/kg dw	5.7U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.7U
Dichlorodifluoromethane, ug/kg dw	5.7U
1,1-Dichloroethane, ug/kg dw	5.7U
1,2-Dichloroethane, ug/kg dw	5.7U
trans-1,2-Dichloroethene, ug/kg dw	5.7U
1,1-Dichloroethylene, ug/kg dw	5.7U
Methylene chloride (Dichloromethane), ug/kg dw	5.7U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
1,2-Dichloropropane, ug/kg dw	5.7U
cis-1,3-Dichloropropene, ug/kg dw	5.7U
trans-1,3-Dichloropropene, ug/kg dw	5.7U
Ethylbenzene, ug/kg dw	5.7U
Methyl ethyl ketone, ug/kg dw	45
Iodomethane (Methyl iodide), ug/kg dw	5.7U
Methacrylonitrile, ug/kg dw	110U
4-Methyl-2-pentanone (MIBK), ug/kg dw	29U
Pentachloroethane, ug/kg dw	29U
Styrene, ug/kg dw	5.7U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.7U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.7U
Tetrachloroethene, ug/kg dw	5.7U
Carbon tetrachloride, ug/kg dw	5.7U
Toluene, ug/kg dw	5.7U
Bromoform, ug/kg dw	5.7U
1,1,2-Trichloroethane, ug/kg dw	5.7U
1,1,1-Trichloroethane, ug/kg dw	5.7U
Trichloroethene, ug/kg dw	5.7U
Trichlorofluoromethane, ug/kg dw	5.7U
1,2,3-Trichloropropane, ug/kg dw	5.7U
Vinyl acetate, ug/kg dw	11U
Vinyl chloride, ug/kg dw	11U

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17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
Xylenes, Total, ug/kg dw	11U
2-Hexanone, ug/kg dw	29U
Propionitrile, ug/kg dw	110U
Methyl methacrylate, ug/kg dw	5.7U
Acrolein (Propenal), ug/kg dw	110U
Acrylonitrile, ug/kg dw	110U
Ethyl methacrylate, ug/kg dw	5.7U
Isobutanol (Isobutyl alcohol), ug/kg dw	230U
Dibromomethane, ug/kg dw	5.7U
Surrogate - Toluene-d8	88 %
Surrogate - 4-Bromofluorobenzene	70 %
Surrogate - Dibromofluoromethane	81 %
cis-1,2-Dichloroethene, ug/kg dw	5.7U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201

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17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	420U
2-Acetylaminofluorene, ug/kg dw	420U
4-Aminobiphenyl, ug/kg dw	420U
Aniline, ug/kg dw	420U
Benzyl alcohol, ug/kg dw	420U
bis(2-Chloroethoxy)methane, ug/kg dw	420U
bis(2-Chloroethyl)ether, ug/kg dw	420U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	420U
bis(2-Ethylhexyl)phthalate, ug/kg dw	420U
4-Bromophenylphenyl ether, ug/kg dw	420U
Butylbenzylphthalate, ug/kg dw	420U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	850U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	420U
2-Chloronaphthalene, ug/kg dw	420U
2-Chlorophenol, ug/kg dw	420U
4-Chlorophenylphenyl ether, ug/kg dw	420U
Cresol, m & p, ug/kg dw	420U
Cresol (ortho), ug/kg dw	420U
Dibenzofuran, ug/kg dw	420U
Di-n-butylphthalate, ug/kg dw	420U
3,3'-Dichlorobenzidine, ug/kg dw	850U

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17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
2,4-Dichlorophenol, ug/kg dw	420U
2,6-Dichlorophenol, ug/kg dw	420U
Diethylphthalate, ug/kg dw	420U
p-(Dimethylamino)azobenzene, ug/kg dw	420U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	420U
3,3'-Dimethylbenzidine, ug/kg dw	850U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	86000U
2,4-Dimethylphenol, ug/kg dw	420U
Dimethylphthalate, ug/kg dw	420U
m-Dinitrobenzene , ug/kg dw	420U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2200U
2,4-Dinitrophenol, ug/kg dw	2200U
2,4-Dinitrotoluene, ug/kg dw	420U
2,6-Dinitrotoluene, ug/kg dw	420U
Di-n-octylphthalate, ug/kg dw	420U
1,4-Dioxane, ug/kg dw	420U
Ethyl methanesulfonate, ug/kg dw	420U
Hexachlorobenzene, ug/kg dw	420U
Hexachlorobutadiene, ug/kg dw	420U
Hexachlorocyclopentadiene, ug/kg dw	420U
Hexachloroethane, ug/kg dw	420U
Hexachlorophene, ug/kg dw	26000U

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LOG NO: S9-17852
Received: 19 NOV 99

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161100117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
Hexachloropropene, ug/kg dw	420U
Isophorone, ug/kg dw	420U
Isosafrole, ug/kg dw	420U
Methapyrilene, ug/kg dw	8500U
3-Methylcholanthrene, ug/kg dw	420U
Methyl methanesulfonate, ug/kg dw	420U
2-Methylnaphthalene, ug/kg dw	420U
1,4-Naphthoquinone, ug/kg dw	420U
1-Naphthylamine, ug/kg dw	420U
2-Naphthylamine, ug/kg dw	420U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2200U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2200U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2200U
Nitrobenzene, ug/kg dw	420U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	420U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2200U
4-Nitroquinoline-1-oxide, ug/kg dw	4200U
N-Nitrosodi-n-butylamine, ug/kg dw	420U
N-Nitrosodiethylamine, ug/kg dw	420U
N-Nitrosodimethylamine, ug/kg dw	420U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	420U
n-Nitrosodi-n-propylamine, ug/kg dw	420U
N-Nitrosomethylethylamine, ug/kg dw	420U

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17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
N-Nitrosomorpholine, ug/kg dw	420U
N-Nitrosopiperidine, ug/kg dw	420U
N-Nitrosopyrrolidine, ug/kg dw	420U
5-Nitro-o-toluidine, ug/kg dw	420U
Pentachlorobenzene, ug/kg dw	420U
Pentachloronitrobenzene, ug/kg dw	420U
Pentachlorophenol, ug/kg dw	2200U
Phenacetin, ug/kg dw	420U
Phenol, ug/kg dw	420U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2200U
2-Picoline, ug/kg dw	420U
Pronamide, ug/kg dw	420U
Pyridine, ug/kg dw	420U
Safrole, ug/kg dw	420U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	420U
2,3,4,6-Tetrachlorophenol, ug/kg dw	420U
o-Toluidine, ug/kg dw	420U
1,2,4-Trichlorobenzene, ug/kg dw	420U
2,4,5-Trichlorophenol, ug/kg dw	420U
2,4,6-Trichlorophenol, ug/kg dw	420U
O,O,O-Triethyl phosphorothioate, ug/kg dw	420U
1,3,5-Trinitrobenzene, ug/kg dw	420U
Famphur, ug/kg dw	420U

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17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
Dimethoate, ug/kg dw	420U
Diallate, Total, ug/kg dw	420U
Aramite (total), ug/kg dw	420U
Quinoline, ug/kg dw	850U
Benzenethiol, ug/kg dw	850U
Kepone, ug/kg dw	420U
1-Methylnaphthalene, ug/kg dw	420U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	420U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	420U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	420U
Surrogate - Phenol-d5	56 %
Surrogate - 2-Fluorophenol	60 %
Surrogate - 2,4,6-Tribromophenol	60 %
Surrogate - Nitrobenzene-d5	57 %
Surrogate - 2-Fluorobiphenyl	67 %
Surrogate - Terphenyl-d14	62 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	1900U
Anthracene, ug/kg dw	570
Benzo(a)anthracene, ug/kg dw	1500P
Benzo(a)pyrene, ug/kg dw	600
Benzo(b)fluoranthene, ug/kg dw	260P
Benzo(g,h,i)perylene, ug/kg dw	920P
Benzo(k)fluoranthene, ug/kg dw	150U
Chrysene, ug/kg dw	1400
Dibenzo(a,h)anthracene, ug/kg dw	460
Fluoranthene, ug/kg dw	620P
Fluorene, ug/kg dw	380U
Indeno(1,2,3-cd)pyrene, ug/kg dw	380U
Naphthalene, ug/kg dw	770U
Phenanthrene, ug/kg dw	1500P
Pyrene, ug/kg dw	1900P
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	30.0
Prep Date	11.30.99
Analysis Date	12.06.99
Batch ID	1130J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
Metals (6010)	
Antimony, mg/kg dw	5.1U
Arsenic, mg/kg dw	7.3
Barium, mg/kg dw	250N
Beryllium, mg/kg dw	0.86
Cadmium, mg/kg dw	0.64U
Chromium, mg/kg dw	65 J
Cobalt, mg/kg dw	7.2
Copper, mg/kg dw	29
Nickel, mg/kg dw	23
Lead, mg/kg dw	58N
Selenium, mg/kg dw	1.3U
Silver, mg/kg dw	1.3U
Tin, mg/kg dw	6.4U
Thallium, mg/kg dw	1.3U
Vanadium, mg/kg dw	38
Zinc, mg/kg dw	140E*
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
Mercury (7471)	
Mercury, mg/kg dw	0.30
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Organic Carbon (WALKLEY-BLACK), mg/kg dw	15000
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
pH in Soil (9045)	
pH, units	7.18
Dilution Factor	1.0
Prep Date	12.21.99
Analysis Date	12.21.99
Batch ID	1221Y
Moisture (% Loss on drying @ 105 C), %	23 %

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17852-3	SS33100511189900D	11-18-99/13:40	WRR006

PARAMETER	17852-3
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	12.01.99
Analysis Date	12.02.99
Batch ID	1201S
Sulfide (9030), mg/kg dw	32U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A
Percent Solids	78

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-4	SS33200111189900S	11-18-99/10:20	WRR006

PARAMETER	17852-4
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	560U
Anthracene, ug/kg dw	83P
Benzo(a)anthracene, ug/kg dw	140
Benzo(a)pyrene, ug/kg dw	200
Benzo(b)fluoranthene, ug/kg dw	67P
Benzo(g,h,i)perylene, ug/kg dw	200P
Benzo(k)fluoranthene, ug/kg dw	44U
Chrysene, ug/kg dw	320
Dibenzo(a,h)anthracene, ug/kg dw	110U
Fluoranthene, ug/kg dw	350P
Fluorene, ug/kg dw	110U
Indeno(1,2,3-cd)pyrene, ug/kg dw	110U
Naphthalene, ug/kg dw	220U
Phenanthrene, ug/kg dw	380
Pyrene, ug/kg dw	780P
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-4	SS33200111189900S	11-18-99/10:20	WRR006

PARAMETER	17852-4
Volatile Organic Compounds (8260)	
Benzene, ug/kg dw	7.1U
Ethylbenzene, ug/kg dw	7.1U
Toluene, ug/kg dw	7.1U
Xylenes, Total, ug/kg dw	14U
Surrogate - Toluene-d8	84 %
Surrogate - 4-Bromofluorobenzene	73 %
Surrogate - Dibromofluoromethane	82 %
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	510E
Surrogate - o-Terphenyl	X
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130U
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	380U
Surrogate - a,a,a-Trifluorotoluene	139 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1A1130G

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-4	SS33200111189900S	11-18-99/10:20	WRR006

PARAMETER	17852-4
Percent Solids	90

Elizabeth P. Beauchamp, Project Manager

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-5	SS33201411189900S	11-18-99/10:40	WRR006

PARAMETER	17852-5
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	64U
Anthracene, ug/kg dw	5.1U
Benzo(a)anthracene, ug/kg dw	5.1U
Benzo(a)pyrene, ug/kg dw	5.1U
Benzo(b)fluoranthene, ug/kg dw	5.1U
Benzo(g,h,i)perylene, ug/kg dw	13U
Benzo(k)fluoranthene, ug/kg dw	5.1U
Chrysene, ug/kg dw	5.1U
Dibenzo(a,h)anthracene, ug/kg dw	13U
Fluoranthene, ug/kg dw	13U
Fluorene, ug/kg dw	13U
Indeno(1,2,3-cd)pyrene, ug/kg dw	13U
Naphthalene, ug/kg dw	26U
Phenanthrene, ug/kg dw	7.3
Pyrene, ug/kg dw	19
Surrogate - Terphenyl-d14	77 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130J

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-5	SS33201411189900S	11-18-99/10:40	WRR006

PARAMETER	17852-5
Volatile Organic Compounds (8260)	
Benzene, ug/kg dw	7.0U
Ethylbenzene, ug/kg dw	7.0U
Toluene, ug/kg dw	7.0U
Xylenes, Total, ug/kg dw	14U
Surrogate - Toluene-d8	87 %
Surrogate - 4-Bromofluorobenzene	86 %
Surrogate - Dibromofluoromethane	71 %
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	4.5
Surrogate - o-Terphenyl	54 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130U
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	310
Surrogate - a,a,a-Trifluorotoluene	124 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1A1130G

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-5	SS33201411189900S	11-18-99/10:40	WRR006

PARAMETER	17852-5
Percent Solids	78

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-6	SS33300111189900S	11-18-99/12:25	WRR006

PARAMETER	17852-6
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	550U
Anthracene, ug/kg dw	100
Benzo(a)anthracene, ug/kg dw	160
Benzo(a)pyrene, ug/kg dw	190P
Benzo(b)fluoranthene, ug/kg dw	100P
Benzo(g,h,i)perylene, ug/kg dw	280
Benzo(k)fluoranthene, ug/kg dw	44U
Chrysene, ug/kg dw	380
Dibenzo(a,h)anthracene, ug/kg dw	110U
Fluoranthene, ug/kg dw	240P
Fluorene, ug/kg dw	110U
Indeno(1,2,3-cd)pyrene, ug/kg dw	110U
Naphthalene, ug/kg dw	220U
Phenanthrene, ug/kg dw	620
Pyrene, ug/kg dw	270P
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130J

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17852-6	SS33300111189900S	11-18-99/12:25	WRR006

PARAMETER	17852-6
Volatile Organic Compounds (8260)	
Benzene, ug/kg dw	6.5U
Ethylbenzene, ug/kg dw	6.5U
Toluene, ug/kg dw	6.5U
Xylenes, Total, ug/kg dw	13U
Surrogate - Toluene-d8	88 %
Surrogate - 4-Bromofluorobenzene	83 %
Surrogate - Dibromofluoromethane	78 %
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	370E
Surrogate - o-Terphenyl	X
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130U
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	360U
Surrogate - a,a,a-Trifluorotoluene	145 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1A1130G

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Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 172000411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-6-DL	SS33300111189900S	11-18-99/12:25	WRR006

PARAMETER	17852-6-DL
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	340D
Surrogate - o-Terphenyl	32 %
Dilution Factor	5.0
Prep Date	11.30.99
Analysis Date	12.03.99
Batch ID	1130U

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-6	SS33300111189900S	11-18-99/12:25	WRR006

PARAMETER	17852-6
Percent Solids	91

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Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161200117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-7	SS33301411189900S	11-18-99/12:45	WRR006

PARAMETER	17852-7
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	64U
Anthracene, ug/kg dw	5.1U
Benzo(a)anthracene, ug/kg dw	5.1U
Benzo(a)pyrene, ug/kg dw	5.1U
Benzo(b)fluoranthene, ug/kg dw	5.1U
Benzo(g,h,i)perylene, ug/kg dw	13U
Benzo(k)fluoranthene, ug/kg dw	5.1U
Chrysene, ug/kg dw	5.1U
Dibenzo(a,h)anthracene, ug/kg dw	13U
Fluoranthene, ug/kg dw	13U
Fluorene, ug/kg dw	13U
Indeno(1,2,3-cd)pyrene, ug/kg dw	13U
Naphthalene, ug/kg dw	26U
Phenanthrene, ug/kg dw	5.1U
Pyrene, ug/kg dw	13U
Surrogate - Terphenyl-d14	65 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130J

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LOG NO: S9-17852
Received: 19 NOV 99

Ms. Heather Halderman
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2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
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REPORT OF RESULTS

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17852-7	SS33301411189900S	11-18-99/12:45	WRR006

PARAMETER	17852-7
Volatile Organic Compounds (8260)	
Benzene, ug/kg dw	6.0U
Ethylbenzene, ug/kg dw	6.0U
Toluene, ug/kg dw	6.0U
Xylenes, Total, ug/kg dw	12U
Surrogate - Toluene-d8	88 %
Surrogate - 4-Bromofluorobenzene	82 %
Surrogate - Dibromofluoromethane	75 %
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	4.7
Surrogate - o-Terphenyl	67 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130U
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	270U
Surrogate - a,a,a-Trifluorotoluene	125 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1A1130G

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PARAMETER	17852-7
Percent Solids	78

Elizabeth F. Beauchamp, Project Manager

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Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 124300124

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
Metals (6010)	
Antimony, mg/kg dw	5.5U
Arsenic, mg/kg dw	7.9
Barium, mg/kg dw	250N
Beryllium, mg/kg dw	0.93
Cadmium, mg/kg dw	0.68U
Chromium, mg/kg dw	21
Cobalt, mg/kg dw	7.4
Copper, mg/kg dw	21
Nickel, mg/kg dw	20
Lead, mg/kg dw	13N
Selenium, mg/kg dw	1.4U
Silver, mg/kg dw	1.4U
Tin, mg/kg dw	6.8U
Thallium, mg/kg dw	1.4U
Vanadium, mg/kg dw	37
Zinc, mg/kg dw	67E*
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
Mercury (7471)	
Mercury, mg/kg dw	0.037
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide, Total (9010), mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	12.01.99
Analysis Date	12.02.99
Batch ID	1201S
Sulfide (9030), mg/kg dw	43
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	270U
Acetone, ug/kg dw	67U
Benzene, ug/kg dw	6.7U
Bromodichloromethane, ug/kg dw	6.7U
Bromomethane (Methyl bromide), ug/kg dw	13U
Carbon disulfide, ug/kg dw	6.7U
Chlorobenzene, ug/kg dw	6.7U
Dibromochloromethane, ug/kg dw	6.7U
Chloroethane, ug/kg dw	13U
Chloromethane (Methyl chloride), ug/kg dw	13U
Chloroform, ug/kg dw	6.7U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	6.7U
Chloroprene, ug/kg dw	6.7U
1,2-Dibromo-3-chloropropane, ug/kg dw	13U
1,2-Dibromoethane (EDB), ug/kg dw	6.7U
trans-1,4-Dichloro-2-butene, ug/kg dw	6.7U
Dichlorodifluoromethane, ug/kg dw	6.7U
1,1-Dichloroethane, ug/kg dw	6.7U
1,2-Dichloroethane, ug/kg dw	6.7U
trans-1,2-Dichloroethene, ug/kg dw	6.7U
1,1-Dichloroethylene, ug/kg dw	6.7U
Methylene chloride (Dichloromethane), ug/kg dw	6.7U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
1,2-Dichloropropane, ug/kg dw	6.7U
cis-1,3-Dichloropropene, ug/kg dw	6.7U
trans-1,3-Dichloropropene, ug/kg dw	6.7U
Ethylbenzene, ug/kg dw	6.7U
Methyl ethyl ketone, ug/kg dw	34U
Iodomethane (Methyl iodide), ug/kg dw	6.7U
Methacrylonitrile, ug/kg dw	130U
4-Methyl-2-pentanone (MIBK), ug/kg dw	34U
Pentachloroethane, ug/kg dw	34U
Styrene, ug/kg dw	6.7U
1,1,1,2-Tetrachloroethane, ug/kg dw	6.7U
1,1,2,2-Tetrachloroethane, ug/kg dw	6.7U
Tetrachloroethene, ug/kg dw	6.7U
Carbon tetrachloride, ug/kg dw	6.7U
Toluene, ug/kg dw	6.7U
Bromoform, ug/kg dw	6.7U
1,1,2-Trichloroethane, ug/kg dw	6.7U
1,1,1-Trichloroethane, ug/kg dw	6.7U
Trichloroethene, ug/kg dw	6.7U
Trichlorofluoromethane, ug/kg dw	6.7U
1,2,3-Trichloropropane, ug/kg dw	6.7U
Vinyl acetate, ug/kg dw	13U
Vinyl chloride, ug/kg dw	13U

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PARAMETER	17852-8		
Xylenes, Total, ug/kg dw	13U		
2-Hexanone, ug/kg dw	34U		
Propionitrile, ug/kg dw	130U		
Methyl methacrylate, ug/kg dw	6.7U		
Acrolein (Propenal), ug/kg dw	130U		
Acrylonitrile, ug/kg dw	130U		
Ethyl methacrylate, ug/kg dw	6.7U		
Isobutanol (Isobutyl alcohol), ug/kg dw	270U		
Dibromomethane, ug/kg dw	6.7U		
Surrogate - Toluene-d8	90 %		
Surrogate - 4-Bromofluorobenzene	85 %		
Surrogate - Dibromofluoromethane	72 %		
cis-1,2-Dichloroethene, ug/kg dw	6.7U		
Dilution Factor	1.0		
Analysis Date	12.01.99		
Batch ID	1M1201		

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17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	450U
2-Acetylaminofluorene, ug/kg dw	450U
4-Aminobiphenyl, ug/kg dw	450U
Aniline, ug/kg dw	450U
Benzyl alcohol, ug/kg dw	450U
bis(2-Chloroethoxy)methane, ug/kg dw	450U
bis(2-Chloroethyl)ether, ug/kg dw	450U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	450U
bis(2-Ethylhexyl)phthalate, ug/kg dw	450U
4-Bromophenylphenyl ether, ug/kg dw	450U
Butylbenzylphthalate, ug/kg dw	450U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	900U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	450U
2-Chloronaphthalene, ug/kg dw	450U
2-Chlorophenol, ug/kg dw	450U
4-Chlorophenylphenyl ether, ug/kg dw	450U
Cresol, m & p, ug/kg dw	450U
Cresol (ortho), ug/kg dw	450U
Dibenzofuran, ug/kg dw	450U
Di-n-butylphthalate, ug/kg dw	450U
3,3'-Dichlorobenzidine, ug/kg dw	900U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8		
2,4-Dichlorophenol, ug/kg dw	450U		
2,6-Dichlorophenol, ug/kg dw	450U		
Diethylphthalate, ug/kg dw	450U		
p-(Dimethylamino)azobenzene, ug/kg dw	450U		
7,12-Dimethylbenz(a)anthracene, ug/kg dw	450U		
3,3'-Dimethylbenzidine, ug/kg dw	900U		
alpha,alpha-Dimethylphenethylamine, ug/kg dw	92000U		
2,4-Dimethylphenol, ug/kg dw	450U		
Dimethylphthalate, ug/kg dw	450U		
m-Dinitrobenzene , ug/kg dw	450U		
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2300U		
2,4-Dinitrophenol, ug/kg dw	2300U		
2,4-Dinitrotoluene, ug/kg dw	450U		
2,6-Dinitrotoluene, ug/kg dw	450U		
Di-n-octylphthalate, ug/kg dw	450U		
1,4-Dioxane, ug/kg dw	450U		
Ethyl methanesulfonate, ug/kg dw	450U		
Hexachlorobenzene, ug/kg dw	450U		
Hexachlorobutadiene, ug/kg dw	450U		
Hexachlorocyclopentadiene, ug/kg dw	450U		
Hexachloroethane, ug/kg dw	450U		
Hexachlorophene, ug/kg dw	27000U		

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17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
Hexachloropropene, ug/kg dw	450U
Isophorone, ug/kg dw	450U
Isosafrole, ug/kg dw	450U
Methapyrilene, ug/kg dw	9000U
3-Methylcholanthrene, ug/kg dw	450U
Methyl methanesulfonate, ug/kg dw	450U
2-Methylnaphthalene, ug/kg dw	450U
1,4-Naphthoquinone, ug/kg dw	450U
1-Naphthylamine, ug/kg dw	450U
2-Naphthylamine, ug/kg dw	450U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2300U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2300U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2300U
Nitrobenzene, ug/kg dw	450U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	450U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2300U
4-Nitroquinoline-1-oxide, ug/kg dw	4500U
N-Nitrosodi-n-butylamine, ug/kg dw	450U
N-Nitrosodiethylamine, ug/kg dw	450U
N-Nitrosodimethylamine, ug/kg dw	450U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	450U
n-Nitrosodi-n-propylamine, ug/kg dw	450U
N-Nitrosomethylethylamine, ug/kg dw	450U

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17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
N-Nitrosomorpholine, ug/kg dw	450U
N-Nitrosopiperidine, ug/kg dw	450U
N-Nitrosopyrrolidine, ug/kg dw	450U
5-Nitro-o-toluidine, ug/kg dw	450U
Pentachlorobenzene, ug/kg dw	450U
Pentachloronitrobenzene, ug/kg dw	450U
Pentachlorophenol, ug/kg dw	2300U
Phenacetin, ug/kg dw	450U
Phenol, ug/kg dw	450U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2300U
2-Picoline, ug/kg dw	450U
Pronamide, ug/kg dw	450U
Pyridine, ug/kg dw	450U
Safrole, ug/kg dw	450U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	450U
2,3,4,6-Tetrachlorophenol, ug/kg dw	450U
o-Toluidine, ug/kg dw	450U
1,2,4-Trichlorobenzene, ug/kg dw	450U
2,4,5-Trichlorophenol, ug/kg dw	450U
2,4,6-Trichlorophenol, ug/kg dw	450U
O,O,O-Triethyl phosphorothioate, ug/kg dw	450U
1,3,5-Trinitrobenzene, ug/kg dw	450U
Famphur, ug/kg dw	450U

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17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
Dimethoate, ug/kg dw	450U
Diallate, Total, ug/kg dw	450U
Aramite (total), ug/kg dw	450U
Quinoline, ug/kg dw	900U
Benzenethiol, ug/kg dw	900U
Kepone, ug/kg dw	450U
1-Methylnaphthalene, ug/kg dw	450U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	450U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	450U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	450U
Surrogate - Phenol-d5	48 %
Surrogate - 2-Fluorophenol	56 %
Surrogate - 2,4,6-Tribromophenol	63 %
Surrogate - Nitrobenzene-d5	52 %
Surrogate - 2-Fluorobiphenyl	61 %
Surrogate - Terphenyl-d14	61 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	68U
Anthracene, ug/kg dw	5.5U
Benzo(a)anthracene, ug/kg dw	5.5U
Benzo(a)pyrene, ug/kg dw	5.5U
Benzo(b)fluoranthene, ug/kg dw	5.5U
Benzo(g,h,i)perylene, ug/kg dw	14U
Benzo(k)fluoranthene, ug/kg dw	5.5U
Chrysene, ug/kg dw	5.5U
Dibenzo(a,h)anthracene, ug/kg dw	14U
Fluoranthene, ug/kg dw	14U
Fluorene, ug/kg dw	14U
Indeno(1,2,3-cd)pyrene, ug/kg dw	14U
Naphthalene, ug/kg dw	27U
Phenanthrene, ug/kg dw	5.5U
Pyrene, ug/kg dw	14U
Surrogate - Terphenyl-d14	75 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
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17852-8	SS32500811189900S	11-18-99/09:20	WRR006

PARAMETER	17852-8
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	4.8
Surrogate - o-Terphenyl	63 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130U
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	320U
Surrogate - a,a,a-Trifluorotoluene	126 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1A1130G
Moisture (% Loss on drying @ 105 C), %	32 %
Percent Solids	73

Elizabeth F. Beauchamp, Project Manager

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LOG NO: S9-17852
Received: 19 NOV 99

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161200117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	230U
Acetone, ug/kg dw	58U
Benzene, ug/kg dw	5.8U
Bromodichloromethane, ug/kg dw	5.8U
Bromomethane (Methyl bromide), ug/kg dw	12U
Carbon disulfide, ug/kg dw	5.8U
Chlorobenzene, ug/kg dw	5.8U
Dibromochloromethane, ug/kg dw	5.8U
Chloroethane, ug/kg dw	12U
Chloromethane (Methyl chloride), ug/kg dw	12U
Chloroform, ug/kg dw	5.8U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.8U
Chloroprene, ug/kg dw	5.8U
1,2-Dibromo-3-chloropropane, ug/kg dw	12U
1,2-Dibromoethane (EDB), ug/kg dw	5.8U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.8U
Dichlorodifluoromethane, ug/kg dw	5.8U
1,1-Dichloroethane, ug/kg dw	5.8U
1,2-Dichloroethane, ug/kg dw	5.8U
trans-1,2-Dichloroethene, ug/kg dw	5.8U
1,1-Dichloroethylene, ug/kg dw	5.8U
Methylene chloride (Dichloromethane), ug/kg dw	5.8U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
1,2-Dichloropropane, ug/kg dw	5.8U
cis-1,3-Dichloropropene, ug/kg dw	5.8U
trans-1,3-Dichloropropene, ug/kg dw	5.8U
Ethylbenzene, ug/kg dw	5.8U
Methyl ethyl ketone, ug/kg dw	29U
Iodomethane (Methyl iodide), ug/kg dw	5.8U
Methacrylonitrile, ug/kg dw	120U
4-Methyl-2-pentanone (MIBK), ug/kg dw	29U
Pentachloroethane, ug/kg dw	29U
Styrene, ug/kg dw	5.8U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.8U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.8U
Tetrachloroethene, ug/kg dw	5.8U
Carbon tetrachloride, ug/kg dw	5.8U
Toluene, ug/kg dw	5.8U
Bromoform, ug/kg dw	5.8U
1,1,2-Trichloroethane, ug/kg dw	5.8U
1,1,1-Trichloroethane, ug/kg dw	5.8U
Trichloroethene, ug/kg dw	5.8U
Trichlorofluoromethane, ug/kg dw	5.8U
1,2,3-Trichloropropane, ug/kg dw	5.8U
Vinyl acetate, ug/kg dw	12U
Vinyl chloride, ug/kg dw	12U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Xylenes, Total, ug/kg dw	12U
2-Hexanone, ug/kg dw	29U
Propionitrile, ug/kg dw	120U
Methyl methacrylate, ug/kg dw	5.8U
Acrolein (Propenal), ug/kg dw	120U
Acrylonitrile, ug/kg dw	120U
Ethyl methacrylate, ug/kg dw	5.8U
Isobutanol (Isobutyl alcohol), ug/kg dw	230U
Dibromomethane, ug/kg dw	5.8U
Surrogate - Toluene-d8	88 %
Surrogate - 4-Bromofluorobenzene	86 %
Surrogate - Dibromofluoromethane	71 %
cis-1,2-Dichloroethene, ug/kg dw	5.8U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	280U
Surrogate - a,a,a-Trifluorotoluene	124 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1A1130G

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Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Contract No.: S7219
Sampled By: Client
Code: 14300037

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	4.0U
Surrogate - o-Terphenyl	58 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130U

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Sampled By: Client
Code: 161200117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	410U
2-Acetylaminofluorene, ug/kg dw	410U
4-Aminobiphenyl, ug/kg dw	410U
Aniline, ug/kg dw	410U
Benzyl alcohol, ug/kg dw	410U
bis(2-Chloroethoxy)methane, ug/kg dw	410U
bis(2-Chloroethyl)ether, ug/kg dw	410U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	410U
bis(2-Ethylhexyl)phthalate, ug/kg dw	410U
4-Bromophenylphenyl ether, ug/kg dw	410U
Butylbenzylphthalate, ug/kg dw	410U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	820U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	410U
2-Chloronaphthalene, ug/kg dw	410U
2-Chlorophenol, ug/kg dw	410U
4-Chlorophenylphenyl ether, ug/kg dw	410U
Cresol, m & p, ug/kg dw	410U
Cresol (ortho), ug/kg dw	410U
Dibenzofuran, ug/kg dw	410U
Di-n-butylphthalate, ug/kg dw	410U
3,3'-Dichlorobenzidine, ug/kg dw	820U

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
2,4-Dichlorophenol, ug/kg dw	410U
2,6-Dichlorophenol, ug/kg dw	410U
Diethylphthalate, ug/kg dw	410U
p-(Dimethylamino)azobenzene, ug/kg dw	410U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	410U
3,3'-Dimethylbenzidine, ug/kg dw	820U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	84000U
2,4-Dimethylphenol, ug/kg dw	410U
Dimethylphthalate, ug/kg dw	410U
m-Dinitrobenzene , ug/kg dw	410U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2100U
2,4-Dinitrophenol, ug/kg dw	2100U
2,4-Dinitrotoluene, ug/kg dw	410U
2,6-Dinitrotoluene, ug/kg dw	410U
Di-n-octylphthalate, ug/kg dw	410U
1,4-Dioxane, ug/kg dw	410U
Ethyl methanesulfonate, ug/kg dw	410U
Hexachlorobenzene, ug/kg dw	410U
Hexachlorobutadiene, ug/kg dw	410U
Hexachlorocyclopentadiene, ug/kg dw	410U
Hexachloroethane, ug/kg dw	410U
Hexachlorophene, ug/kg dw	25000U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Hexachloropropene, ug/kg dw	410U
Isophorone, ug/kg dw	410U
Isosafrole, ug/kg dw	410U
Methapyrilene, ug/kg dw	8200U
3-Methylcholanthrene, ug/kg dw	410U
Methyl methanesulfonate, ug/kg dw	410U
2-Methylnaphthalene, ug/kg dw	410U
1,4-Naphthoquinone, ug/kg dw	410U
1-Naphthylamine, ug/kg dw	410U
2-Naphthylamine, ug/kg dw	410U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2100U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2100U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2100U
Nitrobenzene, ug/kg dw	410U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	410U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2100U
4-Nitroquinoline-1-oxide, ug/kg dw	4100U
N-Nitrosodi-n-butylamine, ug/kg dw	410U
N-Nitrosodiethylamine, ug/kg dw	410U
N-Nitrosodimethylamine, ug/kg dw	410U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	410U
n-Nitrosodi-n-propylamine, ug/kg dw	410U
N-Nitrosomethylethylamine, ug/kg dw	410U

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9		
N-Nitrosomorpholine, ug/kg dw	410U		
N-Nitrosopiperidine, ug/kg dw	410U		
N-Nitrosopyrrolidine, ug/kg dw	410U		
5-Nitro-o-toluidine, ug/kg dw	410U		
Pentachlorobenzene, ug/kg dw	410U		
Pentachloronitrobenzene, ug/kg dw	410U		
Pentachlorophenol, ug/kg dw	2100U		
Phenacetin, ug/kg dw	410U		
Phenol, ug/kg dw	410U		
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2100U		
2-Picoline, ug/kg dw	410U		
Pronamide, ug/kg dw	410U		
Pyridine, ug/kg dw	410U		
Safrole, ug/kg dw	410U		
1,2,4,5-Tetrachlorobenzene, ug/kg dw	410U		
2,3,4,6-Tetrachlorophenol, ug/kg dw	410U		
o-Toluidine, ug/kg dw	410U		
1,2,4-Trichlorobenzene, ug/kg dw	410U		
2,4,5-Trichlorophenol, ug/kg dw	410U		
2,4,6-Trichlorophenol, ug/kg dw	410U		
O,O,O-Triethyl phosphorothioate, ug/kg dw	410U		
1,3,5-Trinitrobenzene, ug/kg dw	410U		
Famphur, ug/kg dw	410U		

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Dimethoate, ug/kg dw	410U
Diallate, Total, ug/kg dw	410U
Aramite (total), ug/kg dw	410U
Quinoline, ug/kg dw	820U
Benzenethiol, ug/kg dw	820U
Kepone, ug/kg dw	410U
1-Methylnaphthalene, ug/kg dw	410U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	410U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	410U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	410U
Surrogate - Phenol-d5	43 %
Surrogate - 2-Fluorophenol	52 %
Surrogate - 2,4,6-Tribromophenol	55 %
Surrogate - Nitrobenzene-d5	47 %
Surrogate - 2-Fluorobiphenyl	52 %
Surrogate - Terphenyl-d14	57 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	62U
Anthracene, ug/kg dw	5.0U
Benzo(a)anthracene, ug/kg dw	5.0U
Benzo(a)pyrene, ug/kg dw	5.0U
Benzo(b)fluoranthene, ug/kg dw	5.0U
Benzo(g,h,i)perylene, ug/kg dw	12U
Benzo(k)fluoranthene, ug/kg dw	5.0U
Chrysene, ug/kg dw	5.0U
Dibenzo(a,h)anthracene, ug/kg dw	12U
Fluoranthene, ug/kg dw	12U
Fluorene, ug/kg dw	12U
Indeno(1,2,3-cd)pyrene, ug/kg dw	12U
Naphthalene, ug/kg dw	25U
Phenanthrene, ug/kg dw	5.0U
Pyrene, ug/kg dw	12U
Surrogate - Terphenyl-d14	71 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.03.99
Batch ID	1130J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	12.01.99
Analysis Date	12.02.99
Batch ID	1201S
Organic Carbon (WALKLEY-BLACK), mg/kg dw	250U
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
pH in Soil (9045)	
pH, units	6.99
Dilution Factor	1.0
Prep Date	12.21.99
Analysis Date	12.21.99
Batch ID	1221Y
Moisture (% Loss on drying @ 105 C), %	22 %

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Metals (6010)	
Antimony, mg/kg dw	4.5U
Arsenic, mg/kg dw	6.8
Barium, mg/kg dw	130N
Beryllium, mg/kg dw	0.56
Cadmium, mg/kg dw	0.62U
Chromium, mg/kg dw	15
Cobalt, mg/kg dw	5.3
Copper, mg/kg dw	13
Nickel, mg/kg dw	16
Lead, mg/kg dw	8.5N
Selenium, mg/kg dw	1.2U
Silver, mg/kg dw	1.2U
Tin, mg/kg dw	6.2U
Thallium, mg/kg dw	1.2U
Vanadium, mg/kg dw	27
Zinc, mg/kg dw	48E*
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-9	SS32501611189900S	11-18-99/09:30	WRR006

PARAMETER	17852-9
Mercury (7471)	
Mercury, mg/kg dw	0.031U
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Sulfide (9030), mg/kg dw	31U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A
Percent Solids	80

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Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161300117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-10	W3310081118990EB	11-18-99/14:00	WRR006

PARAMETER	17852-10
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	50U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	10U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	5.0U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U
Methylene chloride (Dichloromethane), ug/l	5.0U

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Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161300117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-10	W3310081118990EB	11-18-99/14:00	WRR006

PARAMETER	17852-10
1,2-Dichloropropane, ug/l	5.0U
cis-1,3-Dichloropropene, ug/l	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methyl ethyl ketone, ug/l	25U
Iodomethane (Methyl iodide), ug/l	5.0U
Methacrylonitrile, ug/l	100U
4-Methyl-2-pentanone (MIBK), ug/l	25U
Pentachloroethane, ug/l	25U
Styrene, ug/l	5.0U
1,1,1,2-Tetrachloroethane, ug/l	5.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Carbon tetrachloride, ug/l	5.0U
Toluene, ug/l	5.0U
Bromoform, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
1,2,3-Trichloropropane, ug/l	5.0U
Vinyl acetate, ug/l	10U
Vinyl chloride, ug/l	10U

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LOG NO: S9-17852
Received: 19 NOV 99

Ms. Heather Halderman
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Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161300117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-10	W3310081118990EB	11-18-99/14:00	WRR006

PARAMETER	17852-10
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	88 %
Surrogate - 4-Bromofluorobenzene	80 %
Surrogate - Dibromofluoromethane	86 %
cis-1,2-Dichloroethene, ug/l	5.0U
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	2M1130

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REPORT OF RESULTS

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17852-10	W3310081118990EB	11-18-99/14:00	WRR006

PARAMETER	17852-10
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/l	10U
2-Acetylaminofluorene, ug/l	10U
4-Aminobiphenyl, ug/l	10U
Aniline, ug/l	20U
Benzyl alcohol, ug/l	10U
bis(2-Chloroethoxy)methane, ug/l	10U
bis(2-Chloroethyl)ether, ug/l	10U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/l	10U
bis(2-Ethylhexyl)phthalate, ug/l	10U
4-Bromophenylphenyl ether, ug/l	10U
Butylbenzylphthalate, ug/l	10U
4-Chloroaniline (p-Chloroaniline), ug/l	20U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/l	10U
2-Chloronaphthalene, ug/l	10U
2-Chlorophenol, ug/l	10U
4-Chlorophenylphenyl ether, ug/l	10U
Cresol, m & p, ug/l	10U
Cresol (ortho), ug/l	10U
Dibenzofuran, ug/l	10U
Di-n-butylphthalate, ug/l	10U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/l	10U

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REPORT OF RESULTS

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PARAMETER	17852-10		
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/l	10U		
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/l	10U		
3,3'-Dichlorobenzidine, ug/l	20U		
2,4-Dichlorophenol, ug/l	10U		
2,6-Dichlorophenol, ug/l	10U		
Diethylphthalate, ug/l	10U		
p-(Dimethylamino)azobenzene, ug/l	10U		
7,12-Dimethylbenz(a)anthracene, ug/l	10U		
3,3'-Dimethylbenzidine, ug/l	20U		
alpha,alpha-Dimethylphenethylamine, ug/l	200U		
2,4-Dimethylphenol, ug/l	10U		
Dimethylphthalate, ug/l	10U		
m-Dinitrobenzene , ug/l	10U		
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/l	50U		
2,4-Dinitrophenol, ug/l	50U		
2,4-Dinitrotoluene, ug/l	10U		
2,6-Dinitrotoluene, ug/l	10U		
Di-n-octylphthalate, ug/l	10U		
1,4-Dioxane, ug/l	10U		
Ethyl methanesulfonate, ug/l	10U		
Hexachlorobenzene, ug/l	10U		
Hexachlorobutadiene, ug/l	10U		
Hexachlorocyclopentadiene, ug/l	10U		

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REPORT OF RESULTS

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PARAMETER	17852-10		
Hexachloroethane, ug/l	10U		
Hexachlorophene, ug/l	5000U		
Hexachloropropene, ug/l	10U		
Isophorone, ug/l	10U		
Isosafrole, ug/l	10U		
Methapyrilene, ug/l	200U		
3-Methylcholanthrene, ug/l	10U		
Methyl methanesulfonate, ug/l	10U		
2-Methylnaphthalene, ug/l	10U		
1,4-Naphthoquinone, ug/l	10U		
1-Naphthylamine, ug/l	10U		
2-Naphthylamine, ug/l	10U		
2-Nitroaniline (o-Nitroaniline), ug/l	50U		
3-Nitroaniline (m-Nitroaniline), ug/l	50U		
4-Nitroaniline (p-Nitroaniline), ug/l	50U		
Nitrobenzene, ug/l	10U		
2-Nitrophenol (o-Nitrophenol), ug/l	10U		
4-Nitrophenol (p-Nitrophenol), ug/l	50U		
4-Nitroquinoline-1-oxide, ug/l	20U		
N-Nitrosodi-n-butylamine, ug/l	10U		
N-Nitrosodiethylamine, ug/l	10U		
N-Nitrosodimethylamine, ug/l	10U		
N-Nitrosodiphenylamine/Diphenylamine, ug/l	10U		

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PARAMETER	17852-10
n-Nitrosodi-n-propylamine, ug/l	10U
N-Nitrosomethylethylamine, ug/l	10U
N-Nitrosomorpholine, ug/l	10U
N-Nitrosopiperidine, ug/l	10U
N-Nitrosopyrrolidine, ug/l	10U
5-Nitro-o-toluidine, ug/l	10U
Pentachlorobenzene, ug/l	10U
Pentachloronitrobenzene, ug/l	10U
Pentachlorophenol, ug/l	50U
Phenacetin, ug/l	10U
Phenol, ug/l	10U
1,4-Phenylenediamine (p-Phenylenediamine), ug/l	2000U
2-Picoline, ug/l	10U
Pronamide, ug/l	10U
Pyridine, ug/l	50U
Safrole, ug/l	10U
1,2,4,5-Tetrachlorobenzene, ug/l	10U
2,3,4,6-Tetrachlorophenol, ug/l	10U
o-Toluidine, ug/l	10U
1,2,4-Trichlorobenzene, ug/l	10U
2,4,5-Trichlorophenol, ug/l	10U
2,4,6-Trichlorophenol, ug/l	10U
O,O,O-Triethyl phosphorothioate, ug/l	10U

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REPORT OF RESULTS

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PARAMETER	17852-10
1,3,5-Trinitrobenzene, ug/l	10U
Famphur, ug/l	10U
Dimethoate, ug/l	10U
Diallate, Total, ug/l	10U
Aramite (total), ug/l	10U
Quinoline, ug/l	50U
Benzenethiol, ug/l	50U
Kepone, ug/l	10U
1-Methylnaphthalene, ug/l	10U
Surrogate - Phenol-d5	65 %
Surrogate - 2-Fluorophenol	73 %
Surrogate - 2,4,6-Tribromophenol	78 %
Surrogate - Nitrobenzene-d5	72 %
Surrogate - 2-Fluorobiphenyl	68 %
Surrogate - Terphenyl-d14	87 %
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.30.99
Batch ID	1126D

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-10	W3310081118990EB	11-18-99/14:00	WRR006

PARAMETER	17852-10
Polynuclear Aromatics (8310)	
Acenaphthene, ug/l	1.0U
Anthracene, ug/l	0.20U
Benzo(a)anthracene, ug/l	0.20U
Benzo(a)pyrene, ug/l	0.20U
Benzo(b)fluoranthene, ug/l	0.20U
Benzo(g,h,i)perylene, ug/l	0.50U
Benzo(k)fluoranthene, ug/l	0.20U
Chrysene, ug/l	0.20U
Dibenzo(a,h)anthracene, ug/l	0.20U
Fluoranthene, ug/l	0.50U
Fluorene, ug/l	0.50U
Indeno(1,2,3-cd)pyrene, ug/l	0.20U
Naphthalene, ug/l	1.0U
Phenanthrene, ug/l	0.20U
Pyrene, ug/l	0.50U
Surrogate - Terphenyl-d14	84 %
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	12.02.99
Batch ID	1126J

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-10	W3310081118990EB	11-18-99/14:00	WRR006

PARAMETER	17852-10
Metals (6010)	
Antimony, mg/l	0.020U
Arsenic, mg/l	0.0032U
Barium, mg/l	0.010U
Beryllium, mg/l	0.0014U
Cadmium, mg/l	0.0050U
Chromium, mg/l	0.010U
Cobalt, mg/l	0.010U
Copper, mg/l	0.020U
Nickel, mg/l	0.040U
Lead, mg/l	0.0050U
Selenium, mg/l	0.010U
Silver, mg/l	0.010U
Tin, mg/l	0.010U
Thallium, mg/l	0.010U
Vanadium, mg/l	0.010U
Zinc, mg/l	0.020U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-10	W3310081118990EB	11-18-99/14:00	WRR006

PARAMETER	17852-10
Mercury (7470)	
Mercury, mg/l	0.00020U
Dilution Factor	1.0
Prep Date	12.01.99
Analysis Date	12.02.99
Batch ID	1201T
Cyanide (9010)	
Cyanide, Total, mg/l	0.010U
Dilution Factor	1.0
Prep Date	12.01.99
Analysis Date	12.02.99
Batch ID	1201S
Sulfide (9030), mg/l	1.0U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-11	Trip Blank TB015 (942c)	11-18-99	WRR006

PARAMETER	17852-11
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	50U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	10U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	5.0U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U
Methylene chloride (Dichloromethane), ug/l	5.0U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-11	Trip Blank TB015 (942c)	11-18-99	WRR006

PARAMETER	17852-11
1,2-Dichloropropane, ug/l	5.0U
cis-1,3-Dichloropropene, ug/l	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methyl ethyl ketone, ug/l	25U
Iodomethane (Methyl iodide), ug/l	5.0U
Methacrylonitrile, ug/l	100U
4-Methyl-2-pentanone (MIBK), ug/l	25U
Pentachloroethane, ug/l	25U
Styrene, ug/l	5.0U
1,1,1,2-Tetrachloroethane, ug/l	5.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Carbon tetrachloride, ug/l	5.0U
Toluene, ug/l	5.0U
Bromoform, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
1,2,3-Trichloropropane, ug/l	5.0U
Vinyl acetate, ug/l	10U
Vinyl chloride, ug/l	10U

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17852-11	Trip Blank TB015 (942c)	11-18-99	WRR006

PARAMETER	17852-11
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	82 %
Surrogate - Dibromofluoromethane	82 %
cis-1,2-Dichloroethene, ug/l	5.0U
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	2M1130

Methods: EPA SW-846, Update III.

Elizabeth F. Beauchamp, Project Manager

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-12	Trip Blank TB016 (942c)	11-18-99	WRR006

PARAMETER	17852-12
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	50U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	10U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	5.0U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U
Methylene chloride (Dichloromethane), ug/l	5.0U

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17852-12	Trip Blank TB016 (942c)	11-18-99	WRR006

PARAMETER	17852-12
1,2-Dichloropropane, ug/l	5.0U
cis-1,3-Dichloropropene, ug/l	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methyl ethyl ketone, ug/l	25U
Iodomethane (Methyl iodide), ug/l	5.0U
Methacrylonitrile, ug/l	100U
4-Methyl-2-pentanone (MIBK), ug/l	25U
Pentachloroethane, ug/l	25U
Styrene, ug/l	5.0U
1,1,1,2-Tetrachloroethane, ug/l	5.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Carbon tetrachloride, ug/l	5.0U
Toluene, ug/l	5.0U
Bromoform, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
1,2,3-Trichloropropane, ug/l	5.0U
Vinyl acetate, ug/l	10U
Vinyl chloride, ug/l	10U

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LOG NO: S9-17852
Received: 19 NOV 99

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Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161300117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17852-12	Trip Blank TB016 (942c)	11-18-99	WRR006

PARAMETER	17852-12
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	88 %
Surrogate - 4-Bromofluorobenzene	84 %
Surrogate - Dibromofluoromethane	84 %
cis-1,2-Dichloroethene, ug/l	5.0U
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	2M1130

Methods: EPA SW-846, Update III.

Elizabeth F. Beauchamp, Project Manager

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Contract No.: S7219
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	250U
Acetone, ug/kg dw	63U
Benzene, ug/kg dw	6.3U
Bromodichloromethane, ug/kg dw	6.3U
Bromomethane (Methyl bromide), ug/kg dw	13U
Carbon disulfide, ug/kg dw	6.3U
Chlorobenzene, ug/kg dw	6.3U
Dibromochloromethane, ug/kg dw	6.3U
Chloroethane, ug/kg dw	13U
Chloromethane (Methyl chloride), ug/kg dw	13U
Chloroform, ug/kg dw	6.3U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	6.3U
Chloroprene, ug/kg dw	6.3U
1,2-Dibromo-3-chloropropane, ug/kg dw	13U
1,2-Dibromoethane (EDB), ug/kg dw	6.3U
trans-1,4-Dichloro-2-butene, ug/kg dw	6.3U
Dichlorodifluoromethane, ug/kg dw	6.3U
1,1-Dichloroethane, ug/kg dw	6.3U
1,2-Dichloroethane, ug/kg dw	6.3U
trans-1,2-Dichloroethene, ug/kg dw	6.3U
1,1-Dichloroethylene, ug/kg dw	6.3U
Methylene chloride (Dichloromethane), ug/kg dw	6.3U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1		
1,2-Dichloropropane, ug/kg dw	6.3U		
cis-1,3-Dichloropropene, ug/kg dw	6.3U		
trans-1,3-Dichloropropene, ug/kg dw	6.3U		
Ethylbenzene, ug/kg dw	6.3U		
Methyl ethyl ketone, ug/kg dw	32U		
Iodomethane (Methyl iodide), ug/kg dw	6.3U		
Methacrylonitrile, ug/kg dw	130U		
4-Methyl-2-pentanone (MIBK), ug/kg dw	32U		
Pentachloroethane, ug/kg dw	32U		
Styrene, ug/kg dw	6.3U		
1,1,1,2-Tetrachloroethane, ug/kg dw	6.3U		
1,1,2,2-Tetrachloroethane, ug/kg dw	6.3U		
Tetrachloroethene, ug/kg dw	6.3U		
Carbon tetrachloride, ug/kg dw	6.3U		
Toluene, ug/kg dw	6.3U		
Bromoform, ug/kg dw	6.3U		
1,1,2-Trichloroethane, ug/kg dw	6.3U		
1,1,1-Trichloroethane, ug/kg dw	6.3U		
Trichloroethene, ug/kg dw	6.3U		
Trichlorofluoromethane, ug/kg dw	6.3U		
1,2,3-Trichloropropane, ug/kg dw	6.3U		
Vinyl acetate, ug/kg dw	13U		
Vinyl chloride, ug/kg dw	13U		

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
Xylenes, Total, ug/kg dw	13U
2-Hexanone, ug/kg dw	32U
Propionitrile, ug/kg dw	130U
Methyl methacrylate, ug/kg dw	6.3U
Acrolein (Propenal), ug/kg dw	130U
Acrylonitrile, ug/kg dw	130U
Ethyl methacrylate, ug/kg dw	6.3U
Isobutanol (Isobutyl alcohol), ug/kg dw	250U
Dibromomethane, ug/kg dw	6.3U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	81 %
Surrogate - Dibromofluoromethane	76 %
cis-1,2-Dichloroethene, ug/kg dw	6.3U
Dilution Factor	1.0
Analysis Date	12.02.99
Batch ID	2M1201

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	420U
2-Acetylaminofluorene, ug/kg dw	420U
4-Aminobiphenyl, ug/kg dw	420U
Aniline, ug/kg dw	420U
Benzyl alcohol, ug/kg dw	420U
bis(2-Chloroethoxy)methane, ug/kg dw	420U
bis(2-Chloroethyl)ether, ug/kg dw	420U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy l)ether], ug/kg dw	420U
bis(2-Ethylhexyl)phthalate, ug/kg dw	420U
4-Bromophenylphenyl ether, ug/kg dw	420U
Butylbenzylphthalate, ug/kg dw	420U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	840U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	420U
2-Chloronaphthalene, ug/kg dw	420U
2-Chlorophenol, ug/kg dw	420U
4-Chlorophenylphenyl ether, ug/kg dw	420U
Cresol, m & p, ug/kg dw	420U
Cresol (ortho), ug/kg dw	420U
Dibenzofuran, ug/kg dw	420U
Di-n-butylphthalate, ug/kg dw	420U
3,3'-Dichlorobenzidine, ug/kg dw	840U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
2,4-Dichlorophenol, ug/kg dw	420U
2,6-Dichlorophenol, ug/kg dw	420U
Diethylphthalate, ug/kg dw	420U
p-(Dimethylamino)azobenzene, ug/kg dw	420U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	420U
3,3'-Dimethylbenzidine, ug/kg dw	840U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	85000U
2,4-Dimethylphenol, ug/kg dw	420U
Dimethylphthalate, ug/kg dw	420U
m-Dinitrobenzene , ug/kg dw	420U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2200U
2,4-Dinitrophenol, ug/kg dw	2200U
2,4-Dinitrotoluene, ug/kg dw	420U
2,6-Dinitrotoluene, ug/kg dw	420U
Di-n-octylphthalate, ug/kg dw	420U
1,4-Dioxane, ug/kg dw	420U
Ethyl methanesulfonate, ug/kg dw	420U
Hexachlorobenzene, ug/kg dw	420U
Hexachlorobutadiene, ug/kg dw	420U
Hexachlorocyclopentadiene, ug/kg dw	420U
Hexachloroethane, ug/kg dw	420U
Hexachlorophene, ug/kg dw	25000U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
Hexachloropropene, ug/kg dw	420U
Isophorone, ug/kg dw	420U
Isosafrole, ug/kg dw	420U
Methapyrilene, ug/kg dw	8400U
3-Methylcholanthrene, ug/kg dw	420U
Methyl methanesulfonate, ug/kg dw	420U
2-Methylnaphthalene, ug/kg dw	420U
1,4-Naphthoquinone, ug/kg dw	420U
1-Naphthylamine, ug/kg dw	420U
2-Naphthylamine, ug/kg dw	420U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2200U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2200U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2200U
Nitrobenzene, ug/kg dw	420U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	420U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2200U
4-Nitroquinoline-1-oxide, ug/kg dw	4200U
N-Nitrosodi-n-butylamine, ug/kg dw	420U
N-Nitrosodiethylamine, ug/kg dw	420U
N-Nitrosodimethylamine, ug/kg dw	420U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	420U
n-Nitrosodi-n-propylamine, ug/kg dw	420U
N-Nitrosomethylethylamine, ug/kg dw	420U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
N-Nitrosomorpholine, ug/kg dw	420U
N-Nitrosopiperidine, ug/kg dw	420U
N-Nitrosopyrrolidine, ug/kg dw	420U
5-Nitro-o-toluidine, ug/kg dw	420U
Pentachlorobenzene, ug/kg dw	420U
Pentachloronitrobenzene, ug/kg dw	420U
Pentachlorophenol, ug/kg dw	2200U
Phenacetin, ug/kg dw	420U
Phenol, ug/kg dw	420U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2200U
2-Picoline, ug/kg dw	420U
Pronamide, ug/kg dw	420U
Pyridine, ug/kg dw	420U
Safrole, ug/kg dw	420U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	420U
2,3,4,6-Tetrachlorophenol, ug/kg dw	420U
o-Toluidine, ug/kg dw	420U
1,2,4-Trichlorobenzene, ug/kg dw	420U
2,4,5-Trichlorophenol, ug/kg dw	420U
2,4,6-Trichlorophenol, ug/kg dw	420U
O,O,O-Triethyl phosphorothioate, ug/kg dw	420U
1,3,5-Trinitrobenzene, ug/kg dw	420U
Famphur, ug/kg dw	420U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
Dimethoate, ug/kg dw	420U
Diallate, Total, ug/kg dw	420U
Aramite (total), ug/kg dw	420U
Quinoline, ug/kg dw	840U
Benzenethiol, ug/kg dw	840U
Kepone, ug/kg dw	420U
1-Methylnaphthalene, ug/kg dw	420U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	420U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	420U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	420U
Surrogate - Phenol-d5	57 %
Surrogate - 2-Fluorophenol	64 %
Surrogate - 2,4,6-Tribromophenol	64 %
Surrogate - Nitrobenzene-d5	57 %
Surrogate - 2-Fluorobiphenyl	62 %
Surrogate - Terphenyl-d14	62 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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REPORT OF RESULTS

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17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	630U
Anthracene, ug/kg dw	56
Benzo(a)anthracene, ug/kg dw	260
Benzo(a)pyrene, ug/kg dw	170P
Benzo(b)fluoranthene, ug/kg dw	79PJ
Benzo(g,h,i)perylene, ug/kg dw	130P
Benzo(k)fluoranthene, ug/kg dw	51U
Chrysene, ug/kg dw	280
Dibenzo(a,h)anthracene, ug/kg dw	130U
Fluoranthene, ug/kg dw	240P
Fluorene, ug/kg dw	130U
Indeno(1,2,3-cd)pyrene, ug/kg dw	130U
Naphthalene, ug/kg dw	250U
Phenanthrene, ug/kg dw	360P
Pyrene, ug/kg dw	280P
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.30.99
Analysis Date	12.03.99
Batch ID	1130J

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Sampled By: Client
Code: 161300117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	690E J
Surrogate - o-Terphenyl	X
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130U
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	380U
Surrogate - a,a,a-Trifluorotoluene	126 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1A1130G

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Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 172000411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1-DL	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1-DL
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	920D
Surrogate - o-Terphenyl	Y
Dilution Factor	10.0
Prep Date	11.30.99
Analysis Date	12.03.99
Batch ID	1130U

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
Metals (6010)	
Antimony, mg/kg dw	5.1U
Arsenic, mg/kg dw	4.7
Barium, mg/kg dw	100N
Beryllium, mg/kg dw	0.43
Cadmium, mg/kg dw	0.63U
Chromium, mg/kg dw	15 J
Cobalt, mg/kg dw	4.2
Copper, mg/kg dw	17
Nickel, mg/kg dw	16
Lead, mg/kg dw	25N J
Selenium, mg/kg dw	1.3U
Silver, mg/kg dw	1.3U
Tin, mg/kg dw	6.3U
Thallium, mg/kg dw	1.3U
Vanadium, mg/kg dw	24 J
Zinc, mg/kg dw	60E* J
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-1	SS33000111199900S	11-19-99/08:50	WRR006

PARAMETER	17880-1
Mercury (7471)	
Mercury, mg/kg dw	0.16
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202T
Sulfide (9030), mg/kg dw	32U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A
Percent Solids	79

Elizabeth F. Beauchamp, Project Manager

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LOG NO: S9-17880
Received: 20 NOV 99

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-2	SS33001011199900D	11-19-99/09:05	WRR006

PARAMETER	17880-2
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	260U
Acetone, ug/kg dw	110
Benzene, ug/kg dw	6.5U
Bromodichloromethane, ug/kg dw	6.5U
Bromomethane (Methyl bromide), ug/kg dw	13U
Carbon disulfide, ug/kg dw	6.5U
Chlorobenzene, ug/kg dw	6.5U
Dibromochloromethane, ug/kg dw	6.5U
Chloroethane, ug/kg dw	13U
Chloromethane (Methyl chloride), ug/kg dw	13U
Chloroform, ug/kg dw	6.5U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	6.5U
Chloroprene, ug/kg dw	6.5U
1,2-Dibromo-3-chloropropane, ug/kg dw	13U
1,2-Dibromoethane (EDB), ug/kg dw	6.5U
trans-1,4-Dichloro-2-butene, ug/kg dw	6.5U
Dichlorodifluoromethane, ug/kg dw	6.5U
1,1-Dichloroethane, ug/kg dw	6.5U
1,2-Dichloroethane, ug/kg dw	6.5U
trans-1,2-Dichloroethene, ug/kg dw	6.5U
1,1-Dichloroethylene, ug/kg dw	6.5U
Methylene chloride (Dichloromethane), ug/kg dw	6.5U

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PARAMETER	17880-2
1,2-Dichloropropane, ug/kg dw	6.5U
cis-1,3-Dichloropropene, ug/kg dw	6.5U
trans-1,3-Dichloropropene, ug/kg dw	6.5U
Ethylbenzene, ug/kg dw	6.5U
Methyl ethyl ketone, ug/kg dw	130U
Iodomethane (Methyl iodide), ug/kg dw	6.5U
Methacrylonitrile, ug/kg dw	130U
4-Methyl-2-pentanone (MIBK), ug/kg dw	32U
Pentachloroethane, ug/kg dw	32U
Styrene, ug/kg dw	6.5U
1,1,1,2-Tetrachloroethane, ug/kg dw	6.5U
1,1,2,2-Tetrachloroethane, ug/kg dw	6.5U
Tetrachloroethene, ug/kg dw	6.5U
Carbon tetrachloride, ug/kg dw	6.5U
Toluene, ug/kg dw	6.5U
Bromoform, ug/kg dw	6.5U
1,1,2-Trichloroethane, ug/kg dw	6.5U
1,1,1-Trichloroethane, ug/kg dw	6.5U
Trichloroethene, ug/kg dw	6.5U
Trichlorofluoromethane, ug/kg dw	6.5U
1,2,3-Trichloropropane, ug/kg dw	6.5U
Vinyl acetate, ug/kg dw	13U
Vinyl chloride, ug/kg dw	13U

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PARAMETER	17880-2
Xylenes, Total, ug/kg dw	13U
2-Hexanone, ug/kg dw	32U
Propionitrile, ug/kg dw	130U
Methyl methacrylate, ug/kg dw	6.5U
Acrolein (Propenal), ug/kg dw	130U
Acrylonitrile, ug/kg dw	130U
Ethyl methacrylate, ug/kg dw	6.5U
Isobutanol (Isobutyl alcohol), ug/kg dw	260U
Dibromomethane, ug/kg dw	6.5U
Surrogate - Toluene-d8	89 %
Surrogate - 4-Bromofluorobenzene	74 %
Surrogate - Dibromofluoromethane	80 %
cis-1,2-Dichloroethene, ug/kg dw	6.5U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201

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17880-2	SS33001011199900D	11-19-99/09:05	WRR006

PARAMETER	17880-2
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	430U
2-Acetylaminofluorene, ug/kg dw	430U
4-Aminobiphenyl, ug/kg dw	430U
Aniline, ug/kg dw	430U
Benzyl alcohol, ug/kg dw	430U
bis(2-Chloroethoxy)methane, ug/kg dw	430U
bis(2-Chloroethyl)ether, ug/kg dw	430U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy l)ether], ug/kg dw	430U
bis(2-Ethylhexyl)phthalate, ug/kg dw	430U
4-Bromophenylphenyl ether, ug/kg dw	430U
Butylbenzylphthalate, ug/kg dw	430U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	860U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	430U
2-Chloronaphthalene, ug/kg dw	430U
2-Chlorophenol, ug/kg dw	430U
4-Chlorophenylphenyl ether, ug/kg dw	430U
Cresol, m & p, ug/kg dw	430U
Cresol (ortho), ug/kg dw	430U
Dibenzofuran, ug/kg dw	430U
Di-n-butylphthalate, ug/kg dw	430U
3,3'-Dichlorobenzidine, ug/kg dw	860U

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PARAMETER	17880-2
2,4-Dichlorophenol, ug/kg dw	430U
2,6-Dichlorophenol, ug/kg dw	430U
Diethylphthalate, ug/kg dw	430U
p-(Dimethylamino)azobenzene, ug/kg dw	430U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	430U
3,3'-Dimethylbenzidine, ug/kg dw	860U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	87000U
2,4-Dimethylphenol, ug/kg dw	430U
Dimethylphthalate, ug/kg dw	430U
m-Dinitrobenzene , ug/kg dw	430U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2200U
2,4-Dinitrophenol, ug/kg dw	2200U
2,4-Dinitrotoluene, ug/kg dw	430U
2,6-Dinitrotoluene, ug/kg dw	430U
Di-n-octylphthalate, ug/kg dw	430U
1,4-Dioxane, ug/kg dw	430U
Ethyl methanesulfonate, ug/kg dw	430U
Hexachlorobenzene, ug/kg dw	430U
Hexachlorobutadiene, ug/kg dw	430U
Hexachlorocyclopentadiene, ug/kg dw	430U
Hexachloroethane, ug/kg dw	430U
Hexachlorophene, ug/kg dw	26000U

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PARAMETER	17880-2
Hexachloropropene, ug/kg dw	430U
Isophorone, ug/kg dw	430U
Isosafrole, ug/kg dw	430U
Methapyrilene, ug/kg dw	8600U
3-Methylcholanthrene, ug/kg dw	430U
Methyl methanesulfonate, ug/kg dw	430U
2-Methylnaphthalene, ug/kg dw	430U
1,4-Naphthoquinone, ug/kg dw	430U
1-Naphthylamine, ug/kg dw	430U
2-Naphthylamine, ug/kg dw	430U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2200U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2200U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2200U
Nitrobenzene, ug/kg dw	430U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	430U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2200U
4-Nitroquinoline-1-oxide, ug/kg dw	4300U
N-Nitrosodi-n-butylamine, ug/kg dw	430U
N-Nitrosodiethylamine, ug/kg dw	430U
N-Nitrosodimethylamine, ug/kg dw	430U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	430U
n-Nitrosodi-n-propylamine, ug/kg dw	430U
N-Nitrosomethylethylamine, ug/kg dw	430U

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PARAMETER	17880-2		
N-Nitrosomorpholine, ug/kg dw	430U		
N-Nitrosopiperidine, ug/kg dw	430U		
N-Nitrosopyrrolidine, ug/kg dw	430U		
5-Nitro-o-toluidine, ug/kg dw	430U		
Pentachlorobenzene, ug/kg dw	430U		
Pentachloronitrobenzene, ug/kg dw	430U		
Pentachlorophenol, ug/kg dw	2200U		
Phenacetin, ug/kg dw	430U		
Phenol, ug/kg dw	430U		
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2200U		
2-Picoline, ug/kg dw	430U		
Pronamide, ug/kg dw	430U		
Pyridine, ug/kg dw	430U		
Safrole, ug/kg dw	430U		
1,2,4,5-Tetrachlorobenzene, ug/kg dw	430U		
2,3,4,6-Tetrachlorophenol, ug/kg dw	430U		
o-Toluidine, ug/kg dw	430U		
1,2,4-Trichlorobenzene, ug/kg dw	430U		
2,4,5-Trichlorophenol, ug/kg dw	430U		
2,4,6-Trichlorophenol, ug/kg dw	430U		
O,O,O-Triethyl phosphorothioate, ug/kg dw	430U		
1,3,5-Trinitrobenzene, ug/kg dw	430U		
Famphur, ug/kg dw	430U		

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PARAMETER	17880-2
Dimethoate, ug/kg dw	430U
Diallate, Total, ug/kg dw	430U
Aramite (total), ug/kg dw	430U
Quinoline, ug/kg dw	860U
Benzenethiol, ug/kg dw	860U
Kepone, ug/kg dw	430U
1-Methylnaphthalene, ug/kg dw	430U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	430U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	430U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	430U
Surrogate - Phenol-d5	49 %
Surrogate - 2-Fluorophenol	51 %
Surrogate - 2,4,6-Tribromophenol	60 %
Surrogate - Nitrobenzene-d5	44 %
Surrogate - 2-Fluorobiphenyl	50 %
Surrogate - Terphenyl-d14	64 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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17880-2	SS33001011199900D	11-19-99/09:05	WRR006

PARAMETER	17880-2
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	65U
Anthracene, ug/kg dw	~~120~~ 150D
Benzo(a)anthracene, ug/kg dw	~~210~~ 230D
Benzo(a)pyrene, ug/kg dw	~~230E~~ 260D
Benzo(b)fluoranthene, ug/kg dw	~~240E J~~ 280D J
Benzo(g,h,i)perylene, ug/kg dw	340
Benzo(k)fluoranthene, ug/kg dw	~~110~~ 150D
Chrysene, ug/kg dw	~~220E~~ 230D
Dibenzo(a,h)anthracene, ug/kg dw	110P
Fluoranthene, ug/kg dw	~~700E~~ 740D
Fluorene, ug/kg dw	39
Indeno(1,2,3-cd)pyrene, ug/kg dw	~~140E~~ 140D
Naphthalene, ug/kg dw	38P
Phenanthrene, ug/kg dw	~~430E~~ 480D
Pyrene, ug/kg dw	~~460~~ 510D
Surrogate - Terphenyl-d14	X
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.03.99
Batch ID	1130J

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17880-2	SS33001011199900D	11-19-99/09:05	WRR006

PARAMETER	17880-2
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	43 J
Surrogate - o-Terphenyl	44 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130U
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	310U
Surrogate - a,a,a-Trifluorotoluene	126 %
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1A1201G

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17880-2	SS33001011199900D	11-19-99/09:05	WRR006

PARAMETER	17880-2
Metals (6010)	
Antimony, mg/kg dw	5.2U
Arsenic, mg/kg dw	8.7
Barium, mg/kg dw	1100N
Beryllium, mg/kg dw	0.84
Cadmium, mg/kg dw	0.80
Chromium, mg/kg dw	420 J
Cobalt, mg/kg dw	6.6
Copper, mg/kg dw	44
Nickel, mg/kg dw	41
Lead, mg/kg dw	100N J
Selenium, mg/kg dw	2.6U
Silver, mg/kg dw	1.3U
Tin, mg/kg dw	6.5U
Thallium, mg/kg dw	2.6U
Vanadium, mg/kg dw	170 J
Zinc, mg/kg dw	610E* J
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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17880-2	SS33001011199900D	11-19-99/09:05	WRR006

PARAMETER	17880-2
Mercury (7471)	
Mercury, mg/kg dw	0.27
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202T
Sulfide (9030), mg/kg dw	32U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A
Percent Solids	77

Elizabeth F. Beauchamp, Project Manager

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
Metals (6010)	
Antimony, mg/kg dw	5.2U
Arsenic, mg/kg dw	8.1
Barium, mg/kg dw	850N
Beryllium, mg/kg dw	0.83
Cadmium, mg/kg dw	1.3U
Chromium, mg/kg dw	420
Cobalt, mg/kg dw	6.7
Copper, mg/kg dw	45
Nickel, mg/kg dw	19
Lead, mg/kg dw	90N
Selenium, mg/kg dw	26U
Silver, mg/kg dw	1.3U
Tin, mg/kg dw	6.5U
Thallium, mg/kg dw	26U
Vanadium, mg/kg dw	390
Zinc, mg/kg dw	480E*
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
Mercury (7471)	
Mercury, mg/kg dw	0.25
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide, Total (9010), mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202T
Sulfide (9030), mg/kg dw	32U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A

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17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	250U
Acetone, ug/kg dw	110
Benzene, ug/kg dw	6.2U
Bromodichloromethane, ug/kg dw	6.2U
Bromomethane (Methyl bromide), ug/kg dw	12U
Carbon disulfide, ug/kg dw	6.2U
Chlorobenzene, ug/kg dw	6.2U
Dibromochloromethane, ug/kg dw	6.2U
Chloroethane, ug/kg dw	12U
Chloromethane (Methyl chloride), ug/kg dw	12U
Chloroform, ug/kg dw	6.2U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	6.2U
Chloroprene, ug/kg dw	6.2U
1,2-Dibromo-3-chloropropane, ug/kg dw	12U
1,2-Dibromoethane (EDB), ug/kg dw	6.2U
trans-1,4-Dichloro-2-butene, ug/kg dw	6.2U
Dichlorodifluoromethane, ug/kg dw	6.2U
1,1-Dichloroethane, ug/kg dw	6.2U
1,2-Dichloroethane, ug/kg dw	6.2U
trans-1,2-Dichloroethene, ug/kg dw	6.2U
1,1-Dichloroethylene, ug/kg dw	6.2U
Methylene chloride (Dichloromethane), ug/kg dw	6.2U

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LOG NO: S9-17880
Received: 20 NOV 99

Ms. Heather Halderman
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2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
1,2-Dichloropropane, ug/kg dw	6.2U
cis-1,3-Dichloropropene, ug/kg dw	6.2U
trans-1,3-Dichloropropene, ug/kg dw	6.2U
Ethylbenzene, ug/kg dw	6.2U
Methyl ethyl ketone, ug/kg dw	120U
Iodomethane (Methyl iodide), ug/kg dw	6.2U
Methacrylonitrile, ug/kg dw	120U
4-Methyl-2-pentanone (MIBK), ug/kg dw	31U
Pentachloroethane, ug/kg dw	31U
Styrene, ug/kg dw	6.2U
1,1,1,2-Tetrachloroethane, ug/kg dw	6.2U
1,1,2,2-Tetrachloroethane, ug/kg dw	6.2U
Tetrachloroethene, ug/kg dw	6.2U
Carbon tetrachloride, ug/kg dw	6.2U
Toluene, ug/kg dw	6.2U
Bromoform, ug/kg dw	6.2U
1,1,2-Trichloroethane, ug/kg dw	6.2U
1,1,1-Trichloroethane, ug/kg dw	6.2U
Trichloroethene, ug/kg dw	6.2U
Trichlorofluoromethane, ug/kg dw	6.2U
1,2,3-Trichloropropane, ug/kg dw	6.2U
Vinyl acetate, ug/kg dw	12U
Vinyl chloride, ug/kg dw	12U

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17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
Xylenes, Total, ug/kg dw	12U
2-Hexanone, ug/kg dw	31U
Propionitrile, ug/kg dw	120U
Methyl methacrylate, ug/kg dw	6.2U
Acrolein (Propenal), ug/kg dw	120U
Acrylonitrile, ug/kg dw	120U
Ethyl methacrylate, ug/kg dw	6.2U
Isobutanol (Isobutyl alcohol), ug/kg dw	250U
Dibromomethane, ug/kg dw	6.2U
Surrogate - Toluene-d8	92 %
Surrogate - 4-Bromofluorobenzene	79 %
Surrogate - Dibromofluoromethane	79 %
cis-1,2-Dichloroethene, ug/kg dw	6.2U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	2M1201

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	430U
2-Acetylaminofluorene, ug/kg dw	430U
4-Aminobiphenyl, ug/kg dw	430U
Aniline, ug/kg dw	430U
Benzyl alcohol, ug/kg dw	430U
bis(2-Chloroethoxy)methane, ug/kg dw	430U
bis(2-Chloroethyl)ether, ug/kg dw	430U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	430U
bis(2-Ethylhexyl)phthalate, ug/kg dw	430U
4-Bromophenylphenyl ether, ug/kg dw	430U
Butylbenzylphthalate, ug/kg dw	430U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	860U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	430U
2-Chloronaphthalene, ug/kg dw	430U
2-Chlorophenol, ug/kg dw	430U
4-Chlorophenylphenyl ether, ug/kg dw	430U
Cresol, m & p, ug/kg dw	430U
Cresol (ortho), ug/kg dw	430U
Dibenzofuran, ug/kg dw	430U
Di-n-butylphthalate, ug/kg dw	430U
3,3'-Dichlorobenzidine, ug/kg dw	860U

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17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
2,4-Dichlorophenol, ug/kg dw	430U
2,6-Dichlorophenol, ug/kg dw	430U
Diethylphthalate, ug/kg dw	430U
p-(Dimethylamino)azobenzene, ug/kg dw	430U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	430U
3,3'-Dimethylbenzidine, ug/kg dw	860U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	87000U
2,4-Dimethylphenol, ug/kg dw	430U
Dimethylphthalate, ug/kg dw	430U
m-Dinitrobenzene , ug/kg dw	430U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2200U
2,4-Dinitrophenol, ug/kg dw	2200U
2,4-Dinitrotoluene, ug/kg dw	430U
2,6-Dinitrotoluene, ug/kg dw	430U
Di-n-octylphthalate, ug/kg dw	430U
1,4-Dioxane, ug/kg dw	430U
Ethyl methanesulfonate, ug/kg dw	430U
Hexachlorobenzene, ug/kg dw	430U
Hexachlorobutadiene, ug/kg dw	430U
Hexachlorocyclopentadiene, ug/kg dw	430U
Hexachloroethane, ug/kg dw	430U
Hexachlorophene, ug/kg dw	26000U

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PARAMETER	17880-3		
Hexachloropropene, ug/kg dw	430U		
Isophorone, ug/kg dw	430U		
Isosafrole, ug/kg dw	430U		
Methapyrilene, ug/kg dw	8600U		
3-Methylcholanthrene, ug/kg dw	430U		
Methyl methanesulfonate, ug/kg dw	430U		
2-Methylnaphthalene, ug/kg dw	430U		
1,4-Naphthoquinone, ug/kg dw	430U		
1-Naphthylamine, ug/kg dw	430U		
2-Naphthylamine, ug/kg dw	430U		
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2200U		
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2200U		
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2200U		
Nitrobenzene, ug/kg dw	430U		
2-Nitrophenol (o-Nitrophenol), ug/kg dw	430U		
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2200U		
4-Nitroquinoline-1-oxide, ug/kg dw	4300U		
N-Nitrosodi-n-butylamine, ug/kg dw	430U		
N-Nitrosodiethylamine, ug/kg dw	430U		
N-Nitrosodimethylamine, ug/kg dw	430U		
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	430U		
n-Nitrosodi-n-propylamine, ug/kg dw	430U		
N-Nitrosomethylethylamine, ug/kg dw	430U		

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17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3		
N-Nitrosomorpholine, ug/kg dw	430U		
N-Nitrosopiperidine, ug/kg dw	430U		
N-Nitrosopyrrolidine, ug/kg dw	430U		
5-Nitro-o-toluidine, ug/kg dw	430U		
Pentachlorobenzene, ug/kg dw	430U		
Pentachloronitrobenzene, ug/kg dw	430U		
Pentachlorophenol, ug/kg dw	2200U		
Phenacetin, ug/kg dw	430U		
Phenol, ug/kg dw	430U		
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2200U		
2-Picoline, ug/kg dw	430U		
Pronamide, ug/kg dw	430U		
Pyridine, ug/kg dw	430U		
Safrole, ug/kg dw	430U		
1,2,4,5-Tetrachlorobenzene, ug/kg dw	430U		
2,3,4,6-Tetrachlorophenol, ug/kg dw	430U		
o-Toluidine, ug/kg dw	430U		
1,2,4-Trichlorobenzene, ug/kg dw	430U		
2,4,5-Trichlorophenol, ug/kg dw	430U		
2,4,6-Trichlorophenol, ug/kg dw	430U		
O,O,O-Triethyl phosphorothioate, ug/kg dw	430U		
1,3,5-Trinitrobenzene, ug/kg dw	430U		
Famphur, ug/kg dw	430U		

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PARAMETER	17880-3
Dimethoate, ug/kg dw	430U
Diallate, Total, ug/kg dw	430U
Aramite (total), ug/kg dw	430U
Quinoline, ug/kg dw	860U
Benzenethiol, ug/kg dw	860U
Kepone, ug/kg dw	430U
1-Methylnaphthalene, ug/kg dw	430U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	430U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	430U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	430U
Surrogate - Phenol-d5	53 %
Surrogate - 2-Fluorophenol	58 %
Surrogate - 2,4,6-Tribromophenol	60 %
Surrogate - Nitrobenzene-d5	50 %
Surrogate - 2-Fluorobiphenyl	54 %
Surrogate - Terphenyl-d14	59 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	640U
Anthracene, ug/kg dw	330
Benzo(a)anthracene, ug/kg dw	490
Benzo(a)pyrene, ug/kg dw	560
Benzo(b)fluoranthene, ug/kg dw	510
Benzo(g,h,i)perylene, ug/kg dw	660P
Benzo(k)fluoranthene, ug/kg dw	240
Chrysene, ug/kg dw	460
Dibenzo(a,h)anthracene, ug/kg dw	430P
Fluoranthene, ug/kg dw	1400
Fluorene, ug/kg dw	130U
Indeno(1,2,3-cd)pyrene, ug/kg dw	400
Naphthalene, ug/kg dw	260U
Phenanthrene, ug/kg dw	1100
Pyrene, ug/kg dw	1100
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.30.99
Analysis Date	12.03.99
Batch ID	1130J

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17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/kg dw	93
Surrogate - o-Terphenyl	38 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130U
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	310U
Surrogate - a,a,a-Trifluorotoluene	128 %
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1A1201G
pH in Soil (9045)	
pH, units	7.49
Prep Date	12.13.99
Analysis Date	12.13.99
Batch ID	1213Y
Organic Carbon (WALKLEY-BLACK), mg/kg dw	1300
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-3	SS33001011199900S	11-19-99/09:05	WRR006

PARAMETER	17880-3
Moisture (% Loss on drying @ 105 C), %	26 %
Percent Solids	77

Elizabeth F. Beauchamp, Project Manager

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-4	SS336001111999005	11-19-99/09:35	WRR006

PARAMETER	17880-4
Metals (6010)	
Antimony, mg/kg dw	4.1U
Arsenic, mg/kg dw	3.8
Barium, mg/kg dw	130N
Beryllium, mg/kg dw	0.98
Cadmium, mg/kg dw	0.57U
Chromium, mg/kg dw	100
Cobalt, mg/kg dw	5.3
Copper, mg/kg dw	47
Nickel, mg/kg dw	17
Lead, mg/kg dw	74N
Selenium, mg/kg dw	1.1U
Silver, mg/kg dw	1.1U
Tin, mg/kg dw	45
Thallium, mg/kg dw	1.1U
Vanadium, mg/kg dw	26
Zinc, mg/kg dw	110E*
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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17880-4	SS33600111199900S	11-19-99/09:35	WRR006

PARAMETER	17880-4
Mercury (7471)	
Mercury, mg/kg dw	0.18
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide, Total (9010), mg/kg dw	1.1U
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202T
Sulfide (9030), mg/kg dw	28U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A

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17880-4	SS33600111199900S	11-19-99/09:35	WRR006

PARAMETER	17880-4
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	370U
Acetone, ug/kg dw	92U
Benzene, ug/kg dw	9.2U
Bromodichloromethane, ug/kg dw	9.2U
Bromomethane (Methyl bromide), ug/kg dw	18U
Carbon disulfide, ug/kg dw	9.2U
Chlorobenzene, ug/kg dw	9.2U
Dibromochloromethane, ug/kg dw	9.2U
Chloroethane, ug/kg dw	18U
Chloromethane (Methyl chloride), ug/kg dw	18U
Chloroform, ug/kg dw	9.2U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	9.2U
Chloroprene, ug/kg dw	9.2U
1,2-Dibromo-3-chloropropane, ug/kg dw	18U
1,2-Dibromoethane (EDB), ug/kg dw	9.2U
trans-1,4-Dichloro-2-butene, ug/kg dw	9.2U
Dichlorodifluoromethane, ug/kg dw	9.2U
1,1-Dichloroethane, ug/kg dw	9.2U
1,2-Dichloroethane, ug/kg dw	9.2U
trans-1,2-Dichloroethene, ug/kg dw	9.2U
1,1-Dichloroethylene, ug/kg dw	9.2U
Methylene chloride (Dichloromethane), ug/kg dw	9.2U

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17880-4	SS33600111199900S	11-19-99/09:35	WRR006

PARAMETER	17880-4
1,2-Dichloropropane, ug/kg dw	9.2U
cis-1,3-Dichloropropene, ug/kg dw	9.2U
trans-1,3-Dichloropropene, ug/kg dw	9.2U
Ethylbenzene, ug/kg dw	9.2U
Methyl ethyl ketone, ug/kg dw	46U
Iodomethane (Methyl iodide), ug/kg dw	9.2U
Methacrylonitrile, ug/kg dw	180U
4-Methyl-2-pentanone (MIBK), ug/kg dw	46U
Pentachloroethane, ug/kg dw	46U
Styrene, ug/kg dw	9.2U
1,1,1,2-Tetrachloroethane, ug/kg dw	9.2U
1,1,2,2-Tetrachloroethane, ug/kg dw	9.2U
Tetrachloroethene, ug/kg dw	9.2U
Carbon tetrachloride, ug/kg dw	9.2U
Toluene, ug/kg dw	9.2U
Bromoform, ug/kg dw	9.2U
1,1,2-Trichloroethane, ug/kg dw	9.2U
1,1,1-Trichloroethane, ug/kg dw	9.2U
Trichloroethene, ug/kg dw	9.2U
Trichlorofluoromethane, ug/kg dw	9.2U
1,2,3-Trichloropropane, ug/kg dw	9.2U
Vinyl acetate, ug/kg dw	18U
Vinyl chloride, ug/kg dw	18U

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LOG NO: S9-17880
Received: 20 NOV 99

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161400117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-4	SS33600111199900S	11-19-99/09:35	WRR006

PARAMETER	17880-4
Xylenes, Total, ug/kg dw	18U
2-Hexanone, ug/kg dw	46U
Propionitrile, ug/kg dw	180U
Methyl methacrylate, ug/kg dw	9.2U
Acrolein (Propenal), ug/kg dw	180U
Acrylonitrile, ug/kg dw	180U
Ethyl methacrylate, ug/kg dw	9.2U
Isobutanol (Isobutyl alcohol), ug/kg dw	370U
Dibromomethane, ug/kg dw	9.2U
Surrogate - Toluene-d8	89 %
Surrogate - 4-Bromofluorobenzene	82 %
Surrogate - Dibromofluoromethane	76 %
cis-1,2-Dichloroethene, ug/kg dw	9.2U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201

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PARAMETER	17880-4
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	380U
2-Acetylaminofluorene, ug/kg dw	380U
4-Aminobiphenyl, ug/kg dw	380U
Aniline, ug/kg dw	380U
Benzyl alcohol, ug/kg dw	380U
bis(2-Chloroethoxy)methane, ug/kg dw	380U
bis(2-Chloroethyl)ether, ug/kg dw	380U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	380U
bis(2-Ethylhexyl)phthalate, ug/kg dw	380U
4-Bromophenylphenyl ether, ug/kg dw	380U
Butylbenzylphthalate, ug/kg dw	380U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	750U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	380U
2-Chloronaphthalene, ug/kg dw	380U
2-Chlorophenol, ug/kg dw	380U
4-Chlorophenylphenyl ether, ug/kg dw	380U
Cresol, m & p, ug/kg dw	380U
Cresol (ortho), ug/kg dw	380U
Dibenzofuran, ug/kg dw	380U
Di-n-butylphthalate, ug/kg dw	380U
3,3'-Dichlorobenzidine, ug/kg dw	750U

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PARAMETER	17880-4
2,4-Dichlorophenol, ug/kg dw	380U
2,6-Dichlorophenol, ug/kg dw	380U
Diethylphthalate, ug/kg dw	380U
p-(Dimethylamino)azobenzene, ug/kg dw	380U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	380U
3,3'-Dimethylbenzidine, ug/kg dw	750U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	76000U
2,4-Dimethylphenol, ug/kg dw	380U
Dimethylphthalate, ug/kg dw	380U
m-Dinitrobenzene , ug/kg dw	380U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	1900U
2,4-Dinitrophenol, ug/kg dw	1900U
2,4-Dinitrotoluene, ug/kg dw	380U
2,6-Dinitrotoluene, ug/kg dw	380U
Di-n-octylphthalate, ug/kg dw	380U
1,4-Dioxane, ug/kg dw	380U
Ethyl methanesulfonate, ug/kg dw	380U
Hexachlorobenzene, ug/kg dw	380U
Hexachlorobutadiene, ug/kg dw	380U
Hexachlorocyclopentadiene, ug/kg dw	380U
Hexachloroethane, ug/kg dw	380U
Hexachlorophene, ug/kg dw	23000U

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PARAMETER	17880-4
Hexachloropropene, ug/kg dw	380U
Isophorone, ug/kg dw	380U
Isosafrole, ug/kg dw	380U
Methapyrilene, ug/kg dw	7500U
3-Methylcholanthrene, ug/kg dw	380U
Methyl methanesulfonate, ug/kg dw	380U
2-Methylnaphthalene, ug/kg dw	380U
1,4-Naphthoquinone, ug/kg dw	380U
1-Naphthylamine, ug/kg dw	380U
2-Naphthylamine, ug/kg dw	380U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	1900U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	1900U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	1900U
Nitrobenzene, ug/kg dw	380U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	380U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	1900U
4-Nitroquinoline-1-oxide, ug/kg dw	3800U
N-Nitrosodi-n-butylamine, ug/kg dw	380U
N-Nitrosodiethylamine, ug/kg dw	380U
N-Nitrosodimethylamine, ug/kg dw	380U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	380U
n-Nitrosodi-n-propylamine, ug/kg dw	380U
N-Nitrosomethylethylamine, ug/kg dw	380U

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PARAMETER	17880-4		
N-Nitrosomorpholine, ug/kg dw	380U		
N-Nitrosopiperidine, ug/kg dw	380U		
N-Nitrosopyrrolidine, ug/kg dw	380U		
5-Nitro-o-toluidine, ug/kg dw	380U		
Pentachlorobenzene, ug/kg dw	380U		
Pentachloronitrobenzene, ug/kg dw	380U		
Pentachlorophenol, ug/kg dw	1900U		
Phenacetin, ug/kg dw	380U		
Phenol, ug/kg dw	380U		
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	1900U		
2-Picoline, ug/kg dw	380U		
Pronamide, ug/kg dw	380U		
Pyridine, ug/kg dw	380U		
Safrole, ug/kg dw	380U		
1,2,4,5-Tetrachlorobenzene, ug/kg dw	380U		
2,3,4,6-Tetrachlorophenol, ug/kg dw	380U		
o-Toluidine, ug/kg dw	380U		
1,2,4-Trichlorobenzene, ug/kg dw	380U		
2,4,5-Trichlorophenol, ug/kg dw	380U		
2,4,6-Trichlorophenol, ug/kg dw	380U		
O,O,O-Triethyl phosphorothioate, ug/kg dw	380U		
1,3,5-Trinitrobenzene, ug/kg dw	380U		
Famphur, ug/kg dw	380U		

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PARAMETER	17880-4
Dimethoate, ug/kg dw	380U
Diallate, Total, ug/kg dw	380U
Aramite (total), ug/kg dw	380U
Quinoline, ug/kg dw	750U
Benzenethiol, ug/kg dw	750U
Kepone, ug/kg dw	380U
1-Methylnaphthalene, ug/kg dw	380U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	380U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	380U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	380U
Surrogate - Phenol-d5	37 %
Surrogate - 2-Fluorophenol	37 %
Surrogate - 2,4,6-Tribromophenol	37 %
Surrogate - Nitrobenzene-d5	36 %
Surrogate - 2-Fluorobiphenyl	47 %
Surrogate - Terphenyl-d14	53 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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17880-4	SS33600111199900S	11-19-99/09:35	WRR006

PARAMETER	17880-4
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	570U
Anthracene, ug/kg dw	210
Benzo(a)anthracene, ug/kg dw	420
Benzo(a)pyrene, ug/kg dw	440
Benzo(b)fluoranthene, ug/kg dw	500
Benzo(g,h,i)perylene, ug/kg dw	490
Benzo(k)fluoranthene, ug/kg dw	250
Chrysene, ug/kg dw	440
Dibenzo(a,h)anthracene, ug/kg dw	110U
Fluoranthene, ug/kg dw	1300
Fluorene, ug/kg dw	110U
Indeno(1,2,3-cd)pyrene, ug/kg dw	300
Naphthalene, ug/kg dw	230U
Phenanthrene, ug/kg dw	810
Pyrene, ug/kg dw	960
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	11.30.99
Analysis Date	12.03.99
Batch ID	1130J
Percent Solids	88

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-5	SS33601011199900S	11-19-99/09:50	WRR006

PARAMETER	17880-5
Metals (6010)	
Antimony, mg/kg dw	5.1U
Arsenic, mg/kg dw	7.8
Barium, mg/kg dw	150N
Beryllium, mg/kg dw	0.60
Cadmium, mg/kg dw	0.63U
Chromium, mg/kg dw	15
Cobalt, mg/kg dw	4.3
Copper, mg/kg dw	15
Nickel, mg/kg dw	17
Lead, mg/kg dw	9.7N
Selenium, mg/kg dw	1.3U
Silver, mg/kg dw	1.3U
Tin, mg/kg dw	6.3U
Thallium, mg/kg dw	1.3U
Vanadium, mg/kg dw	26
Zinc, mg/kg dw	47E*
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-5	SS33601011199900S	11-19-99/09:50	WRR006

PARAMETER	17880-5
Mercury (7471)	
Mercury, mg/kg dw	0.042
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide, Total (9010), mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202T
Sulfide (9030), mg/kg dw	32U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A

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17880-5	SS33601011199900S	11-19-99/09:50	WRR006

PARAMETER	17880-5
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	220U
Acetone, ug/kg dw	56U
Benzene, ug/kg dw	5.6U
Bromodichloromethane, ug/kg dw	5.6U
Bromomethane (Methyl bromide), ug/kg dw	11U
Carbon disulfide, ug/kg dw	5.6U
Chlorobenzene, ug/kg dw	5.6U
Dibromochloromethane, ug/kg dw	5.6U
Chloroethane, ug/kg dw	11U
Chloromethane (Methyl chloride), ug/kg dw	11U
Chloroform, ug/kg dw	5.6U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.6U
Chloroprene, ug/kg dw	5.6U
1,2-Dibromo-3-chloropropane, ug/kg dw	11U
1,2-Dibromoethane (EDB), ug/kg dw	5.6U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.6U
Dichlorodifluoromethane, ug/kg dw	5.6U
1,1-Dichloroethane, ug/kg dw	5.6U
1,2-Dichloroethane, ug/kg dw	5.6U
trans-1,2-Dichloroethene, ug/kg dw	5.6U
1,1-Dichloroethylene, ug/kg dw	5.6U
Methylene chloride (Dichloromethane), ug/kg dw	5.6U

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17880-5	SS33601011199900S	11-19-99/09:50	WRR006

PARAMETER	17880-5
1,2-Dichloropropane, ug/kg dw	5.6U
cis-1,3-Dichloropropene, ug/kg dw	5.6U
trans-1,3-Dichloropropene, ug/kg dw	5.6U
Ethylbenzene, ug/kg dw	5.6U
Methyl ethyl ketone, ug/kg dw	28U
Iodomethane (Methyl iodide), ug/kg dw	5.6U
Methacrylonitrile, ug/kg dw	110U
4-Methyl-2-pentanone (MIBK), ug/kg dw	28U
Pentachloroethane, ug/kg dw	28U
Styrene, ug/kg dw	5.6U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.6U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.6U
Tetrachloroethene, ug/kg dw	5.6U
Carbon tetrachloride, ug/kg dw	5.6U
Toluene, ug/kg dw	5.6U
Bromoform, ug/kg dw	5.6U
1,1,2-Trichloroethane, ug/kg dw	5.6U
1,1,1-Trichloroethane, ug/kg dw	5.6U
Trichloroethene, ug/kg dw	5.6U
Trichlorofluoromethane, ug/kg dw	5.6U
1,2,3-Trichloropropane, ug/kg dw	5.6U
Vinyl acetate, ug/kg dw	11U
Vinyl chloride, ug/kg dw	11U

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PARAMETER	17880-5
Xylenes, Total, ug/kg dw	11U
2-Hexanone, ug/kg dw	28U
Propionitrile, ug/kg dw	110U
Methyl methacrylate, ug/kg dw	5.6U
Acrolein (Propenal), ug/kg dw	110U
Acrylonitrile, ug/kg dw	110U
Ethyl methacrylate, ug/kg dw	5.6U
Isobutanol (Isobutyl alcohol), ug/kg dw	220U
Dibromomethane, ug/kg dw	5.6U
Surrogate - Toluene-d8	89 %
Surrogate - 4-Bromofluorobenzene	82 %
Surrogate - Dibromofluoromethane	77 %
cis-1,2-Dichloroethene, ug/kg dw	5.6U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	1M1201

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PARAMETER	17880-5
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	420U
2-Acetylaminofluorene, ug/kg dw	420U
4-Aminobiphenyl, ug/kg dw	420U
Aniline, ug/kg dw	420U
Benzyl alcohol, ug/kg dw	420U
bis(2-Chloroethoxy)methane, ug/kg dw	420U
bis(2-Chloroethyl)ether, ug/kg dw	420U
2,2'-Oxybis(1-chloropropane) [bis(2-Chloroisopropyl)ether], ug/kg dw	420U
bis(2-Ethylhexyl)phthalate, ug/kg dw	420U
4-Bromophenylphenyl ether, ug/kg dw	420U
Butylbenzylphthalate, ug/kg dw	420U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	840U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	420U
2-Chloronaphthalene, ug/kg dw	420U
2-Chlorophenol, ug/kg dw	420U
4-Chlorophenylphenyl ether, ug/kg dw	420U
Cresol, m & p, ug/kg dw	420U
Cresol (ortho), ug/kg dw	420U
Dibenzofuran, ug/kg dw	420U
Di-n-butylphthalate, ug/kg dw	420U
3,3'-Dichlorobenzidine, ug/kg dw	840U

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17880-5	SS33601011199900S	11-19-99/09:50	WRR006

PARAMETER	17880-5
2,4-Dichlorophenol, ug/kg dw	420U
2,6-Dichlorophenol, ug/kg dw	420U
Diethylphthalate, ug/kg dw	420U
p-(Dimethylamino)azobenzene, ug/kg dw	420U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	420U
3,3'-Dimethylbenzidine, ug/kg dw	840U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	85000U
2,4-Dimethylphenol, ug/kg dw	420U
Dimethylphthalate, ug/kg dw	420U
m-Dinitrobenzene , ug/kg dw	420U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2200U
2,4-Dinitrophenol, ug/kg dw	2200U
2,4-Dinitrotoluene, ug/kg dw	420U
2,6-Dinitrotoluene, ug/kg dw	420U
Di-n-octylphthalate, ug/kg dw	420U
1,4-Dioxane, ug/kg dw	420U
Ethyl methanesulfonate, ug/kg dw	420U
Hexachlorobenzene, ug/kg dw	420U
Hexachlorobutadiene, ug/kg dw	420U
Hexachlorocyclopentadiene, ug/kg dw	420U
Hexachloroethane, ug/kg dw	420U
Hexachlorophene, ug/kg dw	25000U

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LOG NO: S9-17880
Received: 20 NOV 99

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161500117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-5	SS33601011199900S	11-19-99/09:50	WRR006

PARAMETER	17880-5		
Hexachloropropene, ug/kg dw	420U		
Isophorone, ug/kg dw	420U		
Isosafrole, ug/kg dw	420U		
Methapyrilene, ug/kg dw	8400U		
3-Methylcholanthrene, ug/kg dw	420U		
Methyl methanesulfonate, ug/kg dw	420U		
2-Methylnaphthalene, ug/kg dw	420U		
1,4-Naphthoquinone, ug/kg dw	420U		
1-Naphthylamine, ug/kg dw	420U		
2-Naphthylamine, ug/kg dw	420U		
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2200U		
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2200U		
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2200U		
Nitrobenzene, ug/kg dw	420U		
2-Nitrophenol (o-Nitrophenol), ug/kg dw	420U		
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2200U		
4-Nitroquinoline-1-oxide, ug/kg dw	4200U		
N-Nitrosodi-n-butylamine, ug/kg dw	420U		
N-Nitrosodiethylamine, ug/kg dw	420U		
N-Nitrosodimethylamine, ug/kg dw	1600		
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	420U		
n-Nitrosodi-n-propylamine, ug/kg dw	420U		
N-Nitrosomethylethylamine, ug/kg dw	420U		

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-5	SS336010111999005	11-19-99/09:50	WRR006

PARAMETER	17880-5
N-Nitrosomorpholine, ug/kg dw	420U
N-Nitrosopiperidine, ug/kg dw	420U
N-Nitrosopyrrolidine, ug/kg dw	420U
5-Nitro-o-toluidine, ug/kg dw	420U
Pentachlorobenzene, ug/kg dw	420U
Pentachloronitrobenzene, ug/kg dw	420U
Pentachlorophenol, ug/kg dw	2200U
Phenacetin, ug/kg dw	420U
Phenol, ug/kg dw	420U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2200U
2-Picoline, ug/kg dw	420U
Pronamide, ug/kg dw	420U
Pyridine, ug/kg dw	420U
Safrole, ug/kg dw	420U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	420U
2,3,4,6-Tetrachlorophenol, ug/kg dw	420U
o-Toluidine, ug/kg dw	420U
1,2,4-Trichlorobenzene, ug/kg dw	420U
2,4,5-Trichlorophenol, ug/kg dw	420U
2,4,6-Trichlorophenol, ug/kg dw	420U
O,O,O-Triethyl phosphorothioate, ug/kg dw	420U
1,3,5-Trinitrobenzene, ug/kg dw	420U
Famphur, ug/kg dw	420U

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PARAMETER	17880-5
Dimethoate, ug/kg dw	420U
Diallate, Total, ug/kg dw	420U
Aramite (total), ug/kg dw	420U
Quinoline, ug/kg dw	840U
Benzenethiol, ug/kg dw	840U
Kepone, ug/kg dw	420U
1-Methylnaphthalene, ug/kg dw	420U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	420U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	420U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	420U
Surrogate - Phenol-d5	43 %
Surrogate - 2-Fluorophenol	45 %
Surrogate - 2,4,6-Tribromophenol	50 %
Surrogate - Nitrobenzene-d5	40 %
Surrogate - 2-Fluorobiphenyl	46 %
Surrogate - Terphenyl-d14	48 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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17880-5	SS33601011199900S	11-19-99/09:50	WRR006

PARAMETER	17880-5
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	63U
Anthracene, ug/kg dw	5.1U
Benzo(a)anthracene, ug/kg dw	5.1U
Benzo(a)pyrene, ug/kg dw	5.1U
Benzo(b)fluoranthene, ug/kg dw	5.1U
Benzo(g,h,i)perylene, ug/kg dw	13U
Benzo(k)fluoranthene, ug/kg dw	5.1U
Chrysene, ug/kg dw	5.1U
Dibenzo(a,h)anthracene, ug/kg dw	13U
Fluoranthene, ug/kg dw	13U
Fluorene, ug/kg dw	13U
Indeno(1,2,3-cd)pyrene, ug/kg dw	13U
Naphthalene, ug/kg dw	25U
Phenanthrene, ug/kg dw	5.1U
Pyrene, ug/kg dw	13U
Surrogate - Terphenyl-d14	60 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.03.99
Batch ID	1130J
Percent Solids	79

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-6	SS33700111199900S	11-19-99/10:00	WRR006

PARAMETER	17880-6
Metals (6010)	
Antimony, mg/kg dw	5.6U
Arsenic, mg/kg dw	10
Barium, mg/kg dw	56N
Beryllium, mg/kg dw	0.73
Cadmium, mg/kg dw	0.70U
Chromium, mg/kg dw	32
Cobalt, mg/kg dw	4.4
Copper, mg/kg dw	74
Nickel, mg/kg dw	17
Lead, mg/kg dw	89N
Selenium, mg/kg dw	1.4U
Silver, mg/kg dw	1.4U
Tin, mg/kg dw	7.0U
Thallium, mg/kg dw	1.4U
Vanadium, mg/kg dw	18
Zinc, mg/kg dw	120E*
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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17880-6	SS33700111199900S	11-19-99/10:00	WRR006

PARAMETER	17880-6
Mercury (7471)	
Mercury, mg/kg dw	0.21
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide, Total (9010), mg/kg dw	1.4U
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202T
Sulfide (9030), mg/kg dw	35U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A

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17880-6	SS33700111199900S	11-19-99/10:00	WRR006

PARAMETER	17880-6
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	340U
Acetone, ug/kg dw	86U
Benzene, ug/kg dw	8.6U
Bromodichloromethane, ug/kg dw	8.6U
Bromomethane (Methyl bromide), ug/kg dw	17U
Carbon disulfide, ug/kg dw	8.6U
Chlorobenzene, ug/kg dw	8.6U
Dibromochloromethane, ug/kg dw	8.6U
Chloroethane, ug/kg dw	17U
Chloromethane (Methyl chloride), ug/kg dw	17U
Chloroform, ug/kg dw	8.6U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	8.6U
Chloroprene, ug/kg dw	8.6U
1,2-Dibromo-3-chloropropane, ug/kg dw	17U
1,2-Dibromoethane (EDB), ug/kg dw	8.6U
trans-1,4-Dichloro-2-butene, ug/kg dw	8.6U
Dichlorodifluoromethane, ug/kg dw	8.6U
1,1-Dichloroethane, ug/kg dw	8.6U
1,2-Dichloroethane, ug/kg dw	8.6U
trans-1,2-Dichloroethene, ug/kg dw	8.6U
1,1-Dichloroethylene, ug/kg dw	8.6U
Methylene chloride (Dichloromethane), ug/kg dw	8.6U

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17880-6	SS33700111199900S	11-19-99/10:00	WRR006

PARAMETER	17880-6
1,2-Dichloropropane, ug/kg dw	8.6U
cis-1,3-Dichloropropene, ug/kg dw	8.6U
trans-1,3-Dichloropropene, ug/kg dw	8.6U
Ethylbenzene, ug/kg dw	8.6U
Methyl ethyl ketone, ug/kg dw	43U
Iodomethane (Methyl iodide), ug/kg dw	8.6U
Methacrylonitrile, ug/kg dw	170U
4-Methyl-2-pentanone (MIBK), ug/kg dw	43U
Pentachloroethane, ug/kg dw	43U
Styrene, ug/kg dw	8.6U
1,1,1,2-Tetrachloroethane, ug/kg dw	8.6U
1,1,2,2-Tetrachloroethane, ug/kg dw	8.6U
Tetrachloroethene, ug/kg dw	8.6U
Carbon tetrachloride, ug/kg dw	8.6U
Toluene, ug/kg dw	8.6U
Bromoform, ug/kg dw	8.6U
1,1,2-Trichloroethane, ug/kg dw	8.6U
1,1,1-Trichloroethane, ug/kg dw	8.6U
Trichloroethene, ug/kg dw	8.6U
Trichlorofluoromethane, ug/kg dw	8.6U
1,2,3-Trichloropropane, ug/kg dw	8.6U
Vinyl acetate, ug/kg dw	17U
Vinyl chloride, ug/kg dw	17U

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17880-6	SS33700111199900S	11-19-99/10:00	WRR006

PARAMETER	17880-6
Xylenes, Total, ug/kg dw	17U
2-Hexanone, ug/kg dw	43U
Propionitrile, ug/kg dw	170U
Methyl methacrylate, ug/kg dw	8.6U
Acrolein (Propenal), ug/kg dw	170U
Acrylonitrile, ug/kg dw	170U
Ethyl methacrylate, ug/kg dw	8.6U
Isobutanol (Isobutyl alcohol), ug/kg dw	340U
Dibromomethane, ug/kg dw	8.6U
Surrogate - Toluene-d8	87 %
Surrogate - 4-Bromofluorobenzene	62 %*F53
Surrogate - Dibromofluoromethane	81 %
cis-1,2-Dichloroethene, ug/kg dw	8.6U
Dilution Factor	1.0
Analysis Date	12.02.99
Batch ID	2M1201

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17880-6	SS33700111199900S	11-19-99/10:00	WRR006

PARAMETER	17880-6
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	460U
2-Acetylaminofluorene, ug/kg dw	460U
4-Aminobiphenyl, ug/kg dw	460U
Aniline, ug/kg dw	460U
Benzyl alcohol, ug/kg dw	460U
bis(2-Chloroethoxy)methane, ug/kg dw	460U
bis(2-Chloroethyl)ether, ug/kg dw	460U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	460U
bis(2-Ethylhexyl)phthalate, ug/kg dw	460U
4-Bromophenylphenyl ether, ug/kg dw	460U
Butylbenzylphthalate, ug/kg dw	460U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	930U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	460U
2-Chloronaphthalene, ug/kg dw	460U
2-Chlorophenol, ug/kg dw	460U
4-Chlorophenylphenyl ether, ug/kg dw	460U
Cresol, m & p, ug/kg dw	460U
Cresol (ortho), ug/kg dw	460U
Dibenzofuran, ug/kg dw	460U
Di-n-butylphthalate, ug/kg dw	460U
3,3'-Dichlorobenzidine, ug/kg dw	930U

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PARAMETER	17880-6
2,4-Dichlorophenol, ug/kg dw	460U
2,6-Dichlorophenol, ug/kg dw	460U
Diethylphthalate, ug/kg dw	460U
p-(Dimethylamino)azobenzene, ug/kg dw	460U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	460U
3,3'-Dimethylbenzidine, ug/kg dw	930U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	94000U
2,4-Dimethylphenol, ug/kg dw	460U
Dimethylphthalate, ug/kg dw	460U
m-Dinitrobenzene , ug/kg dw	460U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2400U
2,4-Dinitrophenol, ug/kg dw	2400U
2,4-Dinitrotoluene, ug/kg dw	460U
2,6-Dinitrotoluene, ug/kg dw	460U
Di-n-octylphthalate, ug/kg dw	460U
1,4-Dioxane, ug/kg dw	460U
Ethyl methanesulfonate, ug/kg dw	460U
Hexachlorobenzene, ug/kg dw	460U
Hexachlorobutadiene, ug/kg dw	460U
Hexachlorocyclopentadiene, ug/kg dw	460U
Hexachloroethane, ug/kg dw	460U
Hexachlorophene, ug/kg dw	28000U

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PARAMETER	17880-6
Hexachloropropene, ug/kg dw	460U
Isophorone, ug/kg dw	460U
Isosafrole, ug/kg dw	460U
Methapyrilene, ug/kg dw	9300U
3-Methylcholanthrene, ug/kg dw	460U
Methyl methanesulfonate, ug/kg dw	460U
2-Methylnaphthalene, ug/kg dw	460U
1,4-Naphthoquinone, ug/kg dw	460U
1-Naphthylamine, ug/kg dw	460U
2-Naphthylamine, ug/kg dw	460U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2400U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2400U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2400U
Nitrobenzene, ug/kg dw	460U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	460U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2400U
4-Nitroquinoline-1-oxide, ug/kg dw	4600U
N-Nitrosodi-n-butylamine, ug/kg dw	460U
N-Nitrosodiethylamine, ug/kg dw	460U
N-Nitrosodimethylamine, ug/kg dw	460U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	460U
n-Nitrosodi-n-propylamine, ug/kg dw	460U
N-Nitrosomethylethylamine, ug/kg dw	460U

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PARAMETER	17880-6
N-Nitrosomorpholine, ug/kg dw	460U
N-Nitrosopiperidine, ug/kg dw	460U
N-Nitrosopyrrolidine, ug/kg dw	460U
5-Nitro-o-toluidine, ug/kg dw	460U
Pentachlorobenzene, ug/kg dw	460U
Pentachloronitrobenzene, ug/kg dw	460U
Pentachlorophenol, ug/kg dw	2400U
Phenacetin, ug/kg dw	460U
Phenol, ug/kg dw	460U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2400U
2-Picoline, ug/kg dw	460U
Pronamide, ug/kg dw	460U
Pyridine, ug/kg dw	460U
Safrole, ug/kg dw	460U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	460U
2,3,4,6-Tetrachlorophenol, ug/kg dw	460U
o-Toluidine, ug/kg dw	460U
1,2,4-Trichlorobenzene, ug/kg dw	460U
2,4,5-Trichlorophenol, ug/kg dw	460U
2,4,6-Trichlorophenol, ug/kg dw	460U
O,O,O-Triethyl phosphorothioate, ug/kg dw	460U
1,3,5-Trinitrobenzene, ug/kg dw	460U
Famphur, ug/kg dw	460U

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REPORT OF RESULTS

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17880-6	SS33700111199900S	11-19-99/10:00	WRR006

PARAMETER	17880-6
Dimethoate, ug/kg dw	460U
Diallate, Total, ug/kg dw	460U
Aramite (total), ug/kg dw	460U
Quinoline, ug/kg dw	930U
Benzenethiol, ug/kg dw	930U
Kepone, ug/kg dw	460U
1-Methylnaphthalene, ug/kg dw	460U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	460U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	460U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	460U
Surrogate - Phenol-d5	49 %
Surrogate - 2-Fluorophenol	53 %
Surrogate - 2,4,6-Tribromophenol	60 %
Surrogate - Nitrobenzene-d5	48 %
Surrogate - 2-Fluorobiphenyl	56 %
Surrogate - Terphenyl-d14	61 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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LOG NO: S9-17880
Received: 20 NOV 99

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Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161500117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-6	SS33700111199900S	11-19-99/10:00	WRR006

PARAMETER	17880-6
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	70U
Anthracene, ug/kg dw	5.6U
Benzo(a)anthracene, ug/kg dw	5.6U
Benzo(a)pyrene, ug/kg dw	5.6U
Benzo(b)fluoranthene, ug/kg dw	5.6U
Benzo(g,h,i)perylene, ug/kg dw	14U
Benzo(k)fluoranthene, ug/kg dw	5.6U
Chrysene, ug/kg dw	5.6U
Dibenzo(a,h)anthracene, ug/kg dw	14U
Fluoranthene, ug/kg dw	14U
Fluorene, ug/kg dw	14U
Indeno(1,2,3-cd)pyrene, ug/kg dw	14U
Naphthalene, ug/kg dw	28U
Phenanthrene, ug/kg dw	5.6U
Pyrene, ug/kg dw	14U
Surrogate - Terphenyl-d14	50 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.03.99
Batch ID	1130J
Percent Solids	71

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
Metals (6010)	
Antimony, mg/kg dw	4.5U
Arsenic, mg/kg dw	8.5
Barium, mg/kg dw	180N
Beryllium, mg/kg dw	0.59
Cadmium, mg/kg dw	0.62U
Chromium, mg/kg dw	15
Cobalt, mg/kg dw	14
Copper, mg/kg dw	16
Nickel, mg/kg dw	32
Lead, mg/kg dw	12N
Selenium, mg/kg dw	1.2U
Silver, mg/kg dw	1.2U
Tin, mg/kg dw	6.2U
Thallium, mg/kg dw	1.2U
Vanadium, mg/kg dw	28
Zinc, mg/kg dw	48E*
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
Mercury (7471)	
Mercury, mg/kg dw	0.037
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide, Total (9010), mg/kg dw	1.3U
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202T
Sulfide (9030), mg/kg dw	31U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	210U
Acetone, ug/kg dw	53U
Benzene, ug/kg dw	5.3U
Bromodichloromethane, ug/kg dw	5.3U
Bromomethane (Methyl bromide), ug/kg dw	10U
Carbon disulfide, ug/kg dw	5.3U
Chlorobenzene, ug/kg dw	5.3U
Dibromochloromethane, ug/kg dw	5.3U
Chloroethane, ug/kg dw	10U
Chloromethane (Methyl chloride), ug/kg dw	10U
Chloroform, ug/kg dw	5.3U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	5.3U
Chloroprene, ug/kg dw	5.3U
1,2-Dibromo-3-chloropropane, ug/kg dw	10U
1,2-Dibromoethane (EDB), ug/kg dw	5.3U
trans-1,4-Dichloro-2-butene, ug/kg dw	5.3U
Dichlorodifluoromethane, ug/kg dw	5.3U
1,1-Dichloroethane, ug/kg dw	5.3U
1,2-Dichloroethane, ug/kg dw	5.3U
trans-1,2-Dichloroethene, ug/kg dw	5.3U
1,1-Dichloroethylene, ug/kg dw	5.3U
Methylene chloride (Dichloromethane), ug/kg dw	5.3U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
1,2-Dichloropropane, ug/kg dw	5.3U
cis-1,3-Dichloropropene, ug/kg dw	5.3U
trans-1,3-Dichloropropene, ug/kg dw	5.3U
Ethylbenzene, ug/kg dw	5.3U
Methyl ethyl ketone, ug/kg dw	26U
Iodomethane (Methyl iodide), ug/kg dw	5.3U
Methacrylonitrile, ug/kg dw	100U
4-Methyl-2-pentanone (MIBK), ug/kg dw	26U
Pentachloroethane, ug/kg dw	26U
Styrene, ug/kg dw	5.3U
1,1,1,2-Tetrachloroethane, ug/kg dw	5.3U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.3U
Tetrachloroethene, ug/kg dw	5.3U
Carbon tetrachloride, ug/kg dw	5.3U
Toluene, ug/kg dw	5.3U
Bromoform, ug/kg dw	5.3U
1,1,2-Trichloroethane, ug/kg dw	5.3U
1,1,1-Trichloroethane, ug/kg dw	5.3U
Trichloroethene, ug/kg dw	5.3U
Trichlorofluoromethane, ug/kg dw	5.3U
1,2,3-Trichloropropane, ug/kg dw	5.3U
Vinyl acetate, ug/kg dw	10U
Vinyl chloride, ug/kg dw	10U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
Xylenes, Total, ug/kg dw	10U
2-Hexanone, ug/kg dw	26U
Propionitrile, ug/kg dw	100U
Methyl methacrylate, ug/kg dw	5.3U
Acrolein (Propenal), ug/kg dw	100U
Acrylonitrile, ug/kg dw	100U
Ethyl methacrylate, ug/kg dw	5.3U
Isobutanol (Isobutyl alcohol), ug/kg dw	210U
Dibromomethane, ug/kg dw	5.3U
Surrogate - Toluene-d8	92 %
Surrogate - 4-Bromofluorobenzene	85 %
Surrogate - Dibromofluoromethane	75 %
cis-1,2-Dichloroethene, ug/kg dw	5.3U
Dilution Factor	1.0
Analysis Date	12.02.99
Batch ID	2M1201

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	410U
2-Acetylaminofluorene, ug/kg dw	410U
4-Aminobiphenyl, ug/kg dw	410U
Aniline, ug/kg dw	410U
Benzyl alcohol, ug/kg dw	410U
bis(2-Chloroethoxy)methane, ug/kg dw	410U
bis(2-Chloroethyl)ether, ug/kg dw	410U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	410U
bis(2-Ethylhexyl)phthalate, ug/kg dw	410U
4-Bromophenylphenyl ether, ug/kg dw	410U
Butylbenzylphthalate, ug/kg dw	410U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	820U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	410U
2-Chloronaphthalene, ug/kg dw	410U
2-Chlorophenol, ug/kg dw	410U
4-Chlorophenylphenyl ether, ug/kg dw	410U
Cresol, m & p, ug/kg dw	410U
Cresol (ortho), ug/kg dw	410U
Dibenzofuran, ug/kg dw	410U
Di-n-butylphthalate, ug/kg dw	410U
3,3'-Dichlorobenzidine, ug/kg dw	820U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
2,4-Dichlorophenol, ug/kg dw	410U
2,6-Dichlorophenol, ug/kg dw	410U
Diethylphthalate, ug/kg dw	410U
p-(Dimethylamino)azobenzene, ug/kg dw	410U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	410U
3,3'-Dimethylbenzidine, ug/kg dw	820U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	84000U
2,4-Dimethylphenol, ug/kg dw	410U
Dimethylphthalate, ug/kg dw	410U
m-Dinitrobenzene , ug/kg dw	410U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2100U
2,4-Dinitrophenol, ug/kg dw	2100U
2,4-Dinitrotoluene, ug/kg dw	410U
2,6-Dinitrotoluene, ug/kg dw	410U
Di-n-octylphthalate, ug/kg dw	410U
1,4-Dioxane, ug/kg dw	410U
Ethyl methanesulfonate, ug/kg dw	410U
Hexachlorobenzene, ug/kg dw	410U
Hexachlorobutadiene, ug/kg dw	410U
Hexachlorocyclopentadiene, ug/kg dw	410U
Hexachloroethane, ug/kg dw	410U
Hexachlorophene, ug/kg dw	25000U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
Hexachloropropene, ug/kg dw	410U
Isophorone, ug/kg dw	410U
Isosafrole, ug/kg dw	410U
Methapyrilene, ug/kg dw	8200U
3-Methylcholanthrene, ug/kg dw	410U
Methyl methanesulfonate, ug/kg dw	410U
2-Methylnaphthalene, ug/kg dw	440
1,4-Naphthoquinone, ug/kg dw	410U
1-Naphthylamine, ug/kg dw	410U
2-Naphthylamine, ug/kg dw	410U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2100U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2100U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2100U
Nitrobenzene, ug/kg dw	410U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	410U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2100U
4-Nitroquinoline-1-oxide, ug/kg dw	4100U
N-Nitrosodi-n-butylamine, ug/kg dw	410U
N-Nitrosodiethylamine, ug/kg dw	410U
N-Nitrosodimethylamine, ug/kg dw	410U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	410U
n-Nitrosodi-n-propylamine, ug/kg dw	410U
N-Nitrosomethylethylamine, ug/kg dw	410U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
N-Nitrosomorpholine, ug/kg dw	410U
N-Nitrosopiperidine, ug/kg dw	410U
N-Nitrosopyrrolidine, ug/kg dw	410U
5-Nitro-o-toluidine, ug/kg dw	410U
Pentachlorobenzene, ug/kg dw	410U
Pentachloronitrobenzene, ug/kg dw	410U
Pentachlorophenol, ug/kg dw	2100U
Phenacetin, ug/kg dw	410U
Phenol, ug/kg dw	410U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2100U
2-Picoline, ug/kg dw	410U
Pronamide, ug/kg dw	410U
Pyridine, ug/kg dw	410U
Safrole, ug/kg dw	410U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	410U
2,3,4,6-Tetrachlorophenol, ug/kg dw	410U
o-Toluidine, ug/kg dw	410U
1,2,4-Trichlorobenzene, ug/kg dw	410U
2,4,5-Trichlorophenol, ug/kg dw	410U
2,4,6-Trichlorophenol, ug/kg dw	410U
O,O,O-Triethyl phosphorothioate, ug/kg dw	410U
1,3,5-Trinitrobenzene, ug/kg dw	410U
Famphur, ug/kg dw	410U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7
Dimethoate, ug/kg dw	410U
Diallate, Total, ug/kg dw	410U
Aramite (total), ug/kg dw	410U
Quinoline, ug/kg dw	820U
Benzenethiol, ug/kg dw	820U
Kepone, ug/kg dw	410U
1-Methylnaphthalene, ug/kg dw	410U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	410U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	410U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	410U
Surrogate - Phenol-d5	43 %
Surrogate - 2-Fluorophenol	45 %
Surrogate - 2,4,6-Tribromophenol	52 %
Surrogate - Nitrobenzene-d5	42 %
Surrogate - 2-Fluorobiphenyl	52 %
Surrogate - Terphenyl-d14	57 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.01.99
Batch ID	1130A

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-7	SS33701011199900S	11-19-99/10:15	WRR006

PARAMETER	17880-7	
Polynuclear Aromatics (8310)		
Acenaphthene, ug/kg dw	3100U	
Anthracene, ug/kg dw	460	
Benzo(a)anthracene, ug/kg dw	~~5800~~	6400D
Benzo(a)pyrene, ug/kg dw	~~8600~~	8800D
Benzo(b)fluoranthene, ug/kg dw	13000E	
Benzo(g,h,i)perylene, ug/kg dw	12000	
Benzo(k)fluoranthene, ug/kg dw	4800	
Chrysene, ug/kg dw	5800	
Dibenzo(a,h)anthracene, ug/kg dw	~~4100P~~	4500D
Fluoranthene, ug/kg dw	14000	
Fluorene, ug/kg dw	620U	
Indeno(1,2,3-cd)pyrene, ug/kg dw	~~6600E~~	7100D
Naphthalene, ug/kg dw	1200U	
Phenanthrene, ug/kg dw	2400	
Pyrene, ug/kg dw	10000	
Surrogate - Terphenyl-d14	0 %D	
Dilution Factor	50.0	
Prep Date	11.30.99	
Analysis Date	12.06.99	
Batch ID	1130J	
Percent Solids	80	

Elizabeth F. Beauchamp, Project Manager

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Sampled By: Client
Code: 161600117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	25U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	10U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	5.0U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U
Methylene chloride (Dichloromethane), ug/l	5.0U

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Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161600117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8		
1,2-Dichloropropane, ug/l	5.0U		
cis-1,3-Dichloropropene, ug/l	5.0U		
trans-1,3-Dichloropropene, ug/l	5.0U		
Ethylbenzene, ug/l	5.0U		
Methyl ethyl ketone, ug/l	25U		
Iodomethane (Methyl iodide), ug/l	5.0U		
Methacrylonitrile, ug/l	100U		
4-Methyl-2-pentanone (MIBK), ug/l	25U		
Pentachloroethane, ug/l	25U		
Styrene, ug/l	5.0U		
1,1,1,2-Tetrachloroethane, ug/l	5.0U		
1,1,2,2-Tetrachloroethane, ug/l	5.0U		
Tetrachloroethene, ug/l	5.0U		
Carbon tetrachloride, ug/l	5.0U		
Toluene, ug/l	5.0U		
Bromoform, ug/l	5.0U		
1,1,2-Trichloroethane, ug/l	5.0U		
1,1,1-Trichloroethane, ug/l	5.0U		
Trichloroethene, ug/l	5.0U		
Trichlorofluoromethane, ug/l	5.0U		
1,2,3-Trichloropropane, ug/l	5.0U		
Vinyl acetate, ug/l	10U		
Vinyl chloride, ug/l	10U		

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Received: 20 NOV 99

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REPORT OF RESULTS

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17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	80 %
Surrogate - Dibromofluoromethane	84 %
cis-1,2-Dichloroethene, ug/l	5.0U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	2M1130

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17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/l	10U
2-Acetylaminofluorene, ug/l	10U
4-Aminobiphenyl, ug/l	10U
Aniline, ug/l	20U
Benzyl alcohol, ug/l	10U
bis(2-Chloroethoxy)methane, ug/l	10U
bis(2-Chloroethyl)ether, ug/l	10U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/l	10U
bis(2-Ethylhexyl)phthalate, ug/l	10U
4-Bromophenylphenyl ether, ug/l	10U
Butylbenzylphthalate, ug/l	10U
4-Chloroaniline (p-Chloroaniline), ug/l	20U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/l	10U
2-Chloronaphthalene, ug/l	10U
2-Chlorophenol, ug/l	10U
4-Chlorophenylphenyl ether, ug/l	10U
Cresol, m & p, ug/l	10U
Cresol (ortho), ug/l	10U
Dibenzofuran, ug/l	10U
Di-n-butylphthalate, ug/l	10U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/l	10U

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PARAMETER	17880-8
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/l	10U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/l	10U
3,3'-Dichlorobenzidine, ug/l	20U
2,4-Dichlorophenol, ug/l	10U
2,6-Dichlorophenol, ug/l	10U
Diethylphthalate, ug/l	10U
p-(Dimethylamino)azobenzene, ug/l	10U
7,12-Dimethylbenz(a)anthracene, ug/l	10U
3,3'-Dimethylbenzidine, ug/l	20U
alpha,alpha-Dimethylphenethylamine, ug/l	200U
2,4-Dimethylphenol, ug/l	10U
Dimethylphthalate, ug/l	10U
m-Dinitrobenzene , ug/l	10U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/l	50U
2,4-Dinitrophenol, ug/l	50U
2,4-Dinitrotoluene, ug/l	10U
2,6-Dinitrotoluene, ug/l	10U
Di-n-octylphthalate, ug/l	10U
1,4-Dioxane, ug/l	10U
Ethyl methanesulfonate, ug/l	10U
Hexachlorobenzene, ug/l	10U
Hexachlorobutadiene, ug/l	10U
Hexachlorocyclopentadiene, ug/l	10U

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17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8
Hexachloroethane, ug/l	10U
Hexachlorophene, ug/l	5000U
Hexachloropropene, ug/l	10U
Isophorone, ug/l	10U
Isosafrole, ug/l	10U
Methapyrilene, ug/l	200U
3-Methylcholanthrene, ug/l	10U
Methyl methanesulfonate, ug/l	10U
2-Methylnaphthalene, ug/l	10U
1,4-Naphthoquinone, ug/l	10U
1-Naphthylamine, ug/l	10U
2-Naphthylamine, ug/l	10U
2-Nitroaniline (o-Nitroaniline), ug/l	50U
3-Nitroaniline (m-Nitroaniline), ug/l	50U
4-Nitroaniline (p-Nitroaniline), ug/l	50U
Nitrobenzene, ug/l	10U
2-Nitrophenol (o-Nitrophenol), ug/l	10U
4-Nitrophenol (p-Nitrophenol), ug/l	50U
4-Nitroquinoline-1-oxide, ug/l	20U
N-Nitrosodi-n-butylamine, ug/l	10U
N-Nitrosodiethylamine, ug/l	10U
N-Nitrosodimethylamine, ug/l	10U
N-Nitrosodiphenylamine/Diphenylamine, ug/l	10U

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PARAMETER	17880-8
n-Nitrosodi-n-propylamine, ug/l	10U
N-Nitrosomethylethylamine, ug/l	10U
N-Nitrosomorpholine, ug/l	10U
N-Nitrosopiperidine, ug/l	10U
N-Nitrosopyrrolidine, ug/l	10U
5-Nitro-o-toluidine, ug/l	10U
Pentachlorobenzene, ug/l	10U
Pentachloronitrobenzene, ug/l	10U
Pentachlorophenol, ug/l	50U
Phenacetin, ug/l	10U
Phenol, ug/l	10U
1,4-Phenylenediamine (p-Phenylenediamine), ug/l	2000U
2-Picoline, ug/l	10U
Pronamide, ug/l	10U
Pyridine, ug/l	50U
Safrole, ug/l	10U
1,2,4,5-Tetrachlorobenzene, ug/l	10U
2,3,4,6-Tetrachlorophenol, ug/l	10U
o-Toluidine, ug/l	10U
1,2,4-Trichlorobenzene, ug/l	10U
2,4,5-Trichlorophenol, ug/l	10U
2,4,6-Trichlorophenol, ug/l	10U
O,O,O-Triethyl phosphorothioate, ug/l	10U

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17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8
1,3,5-Trinitrobenzene, ug/l	10U
Famphur, ug/l	10U
Dimethoate, ug/l	10U
Diallate, Total, ug/l	10U
Aramite (total), ug/l	10U
Quinoline, ug/l	50U
Benzenethiol, ug/l	50U
Kepone, ug/l	10U
1-Methylnaphthalene, ug/l	10U
Surrogate - Phenol-d5	50 %
Surrogate - 2-Fluorophenol	52 %
Surrogate - 2,4,6-Tribromophenol	59 %
Surrogate - Nitrobenzene-d5	58 %
Surrogate - 2-Fluorobiphenyl	58 %
Surrogate - Terphenyl-d14	83 %
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	11.30.99
Batch ID	1126D

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8
Polynuclear Aromatics (8310)	
Acenaphthene, ug/l	1.0U
Anthracene, ug/l	0.20U
Benzo(a)anthracene, ug/l	0.20U
Benzo(a)pyrene, ug/l	0.20U
Benzo(b)fluoranthene, ug/l	0.20U
Benzo(g,h,i)perylene, ug/l	0.50U
Benzo(k)fluoranthene, ug/l	0.20U
Chrysene, ug/l	0.20U
Dibenzo(a,h)anthracene, ug/l	0.20U
Fluoranthene, ug/l	0.50U
Fluorene, ug/l	0.50U
Indeno(1,2,3-cd)pyrene, ug/l	0.20U
Naphthalene, ug/l	1.0U
Phenanthrene, ug/l	0.20U
Pyrene, ug/l	0.50U
Surrogate - Terphenyl-d14	88 %
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	12.01.99
Batch ID	1126J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8
Metals (6010)	
Antimony, mg/l	0.020U
Arsenic, mg/l	0.0032U
Barium, mg/l	0.010U
Beryllium, mg/l	0.0014U
Cadmium, mg/l	0.0050U
Chromium, mg/l	0.010U
Cobalt, mg/l	0.010U
Copper, mg/l	0.020U
Nickel, mg/l	0.040U
Lead, mg/l	0.0050U
Selenium, mg/l	0.010U
Silver, mg/l	0.010U
Tin, mg/l	0.010U
Thallium, mg/l	0.010U
Vanadium, mg/l	0.010U
Zinc, mg/l	0.020U
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.17.99
Batch ID	1130H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8
Mercury (7470)	
Mercury, mg/l	0.00020U
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.03.99
Batch ID	1202S
Cyanide (9010)	
Cyanide, Total, mg/l	0.010U
Dilution Factor	1.0
Prep Date	12.02.99
Analysis Date	12.02.99
Batch ID	1202T
Sulfide (9030), mg/l	1.0U
Dilution Factor	1
Prep Date	11.26.99
Analysis Date	11.26.99
Batch ID	1126A
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, mg/l	50U
Surrogate - a,a,a-Trifluorotoluene	160 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	1D1130

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-8	W3300091119990EB	11-19-99/11:20	WRR006

PARAMETER	17880-8
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/l	0.10U
Surrogate - o-Terphenyl	100 %
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	12.01.99
Batch ID	1126V

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-9	Trip Blank TB017 (942c)	11-19-99	WRR006

PARAMETER	17880-9
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	50U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	10U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	5.0U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U
Methylene chloride (Dichloromethane), ug/l	5.0U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-9	Trip Blank TB017 (942c)	11-19-99	WRR006

PARAMETER	17880-9
1,2-Dichloropropane, ug/l	5.0U
cis-1,3-Dichloropropene, ug/l	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methyl ethyl ketone, ug/l	25U
Iodomethane (Methyl iodide), ug/l	5.0U
Methacrylonitrile, ug/l	100U
4-Methyl-2-pentanone (MIBK), ug/l	25U
Pentachloroethane, ug/l	25U
Styrene, ug/l	5.0U
1,1,1,2-Tetrachloroethane, ug/l	5.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Carbon tetrachloride, ug/l	5.0U
Toluene, ug/l	5.0U
Bromoform, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
1,2,3-Trichloropropane, ug/l	5.0U
Vinyl acetate, ug/l	10U
Vinyl chloride, ug/l	10U

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REPORT OF RESULTS

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17880-9	Trip Blank TB017 (942c)	11-19-99	WRR006

PARAMETER	17880-9
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	88 %
Surrogate - 4-Bromofluorobenzene	82 %
Surrogate - Dibromofluoromethane	86 %
cis-1,2-Dichloroethene, ug/l	5.0U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	2M1130

Methods: EPA SW-846, Update III.

X = Surrogate recovery was outside established limits due to a coeluting matrix interference in the sample.

Elizabeth F. Beauchamp, Project Manager

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Code: 161600117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-10	Trip Blank TB018 (942c)	11-19-99	WRR006

PARAMETER	17880-10
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	50U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	10U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	5.0U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U
Methylene chloride (Dichloromethane), ug/l	5.0U

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LOG NO: S9-17880
Received: 20 NOV 99

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR006/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161600117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-10	Trip Blank TB018 (942c)	11-19-99	WRR006

PARAMETER	17880-10		
1,2-Dichloropropane, ug/l	5.0U		
cis-1,3-Dichloropropene, ug/l	5.0U		
trans-1,3-Dichloropropene, ug/l	5.0U		
Ethylbenzene, ug/l	5.0U		
Methyl ethyl ketone, ug/l	25U		
Iodomethane (Methyl iodide), ug/l	5.0U		
Methacrylonitrile, ug/l	100U		
4-Methyl-2-pentanone (MIBK), ug/l	25U		
Pentachloroethane, ug/l	25U		
Styrene, ug/l	5.0U		
1,1,1,2-Tetrachloroethane, ug/l	5.0U		
1,1,2,2-Tetrachloroethane, ug/l	5.0U		
Tetrachloroethene, ug/l	5.0U		
Carbon tetrachloride, ug/l	5.0U		
Toluene, ug/l	5.0U		
Bromoform, ug/l	5.0U		
1,1,2-Trichloroethane, ug/l	5.0U		
1,1,1-Trichloroethane, ug/l	5.0U		
Trichloroethene, ug/l	5.0U		
Trichlorofluoromethane, ug/l	5.0U		
1,2,3-Trichloropropane, ug/l	5.0U		
Vinyl acetate, ug/l	10U		
Vinyl chloride, ug/l	10U		

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Sampled By: Client
Code: 161600117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17880-10	Trip Blank TB018 (942c)	11-19-99	WRR006

PARAMETER	17880-10
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	84 %
Surrogate - Dibromofluoromethane	84 %
cis-1,2-Dichloroethene, ug/l	5.0U
Dilution Factor	1.0
Analysis Date	12.01.99
Batch ID	2M1130

Methods: EPA SW-846, Update III.

X = Surrogate recovery was outside established limits due to a coeluting matrix interference in the sample.

Elizabeth F. Beauchamp, Project Manager

ORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR007)
NO. OF SAMPLES/
MATRIX 2 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/28/00

DATA ASSESSMENT WORKSHEET

	(VOCs) Meth # 8260	(SVOCs) Meth # 8270	(PAHs) Meth # 8310	(DRO) Meth #8015	(GRO) Meth #8015M	(TOC) Meth # Walkley-Black
1. HOLDING TIMES	✓	✓	✓	✓	✓	✓
2. BLANKS	✓	✓	✓	✓	✓	✓
3. SURROGATES	✓	✓	(3)	✓	✓	N/A
4. SCS (LCS)	✓	✓	✓	✓	✓	✓
5. DCS (LSCD)	N/A	N/A	✓	N/A	N/A	N/A
6. MATIX SPIKE/DUP	(1)	(2)	(4)	N/A	✓	N/A
7. DILUTIONS	✓	✓	(5)	✓	✓	✓
8. DUPLICATES	N/A	N/A	N/A	N/A	N/A	✓
9. OVERALL ASSESSMENT	O	O	O/X	O	O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (1) RPD duplicate results for samples SS305014 & SS305014D were high for xylenes & ethylbenzene. Therefore, since the samples are field dups, their associated compounds were estimated. (7) Duplicate results for samples SS305014 & SS305014D were high for anthracene, benzo(a)anthracene, crysene, fluoranthene, & phenanthrene. Therefore, since the samples are field dups, their associated compounds were estimated.

COMMENTS: (1) The MS % recovery was slightly outside limits for chlorobenzene. However, since the MSD % recoveries and RPD were within control limits, no action is necessary.
(2) MS/MSD recoveries are slightly outside limits for pyrene and 1,2,4-trichlorobenzene. However, since the LCS recovery is within limits, no action is necessary.
(3) Surrogate recoveries were outside limits for the MS/MSD (SS322001) and samples SS322001, SS322003 and SS322003(DL) due to abundance of target analyte, or no recoveries at all due to dilutions. However, since the LCS/LCSD recoveries/RPDs were within control limits, no action is necessary.
(4) MS/MSD recoveries/RPDs for multiple compounds are outside limits due to abundance of target analyte. However, since the LCS/LCSD recoveries/RPDs were within limits, no action is necessary.
(5)Sample SS322001 was diluted by 50x's and SS322003 by 10 & 30x's, however no action is necessary.

INORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WR007)
NO. OF SAMPLES/
MATRIX 2 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 2/28/00

DATA ASSESSMENT WORKSHEET

	(Metals) Meth # 6010	(Mercury) Meth # 7471	Meth #	(Cyanide) Meth # 9010	(Sulfide) Meth # 9030
1. HOLDING TIMES	✓	✓		✓	✓
2. BLANKS	✓	✓		(10)	✓
3. DUPLICATES	✓	✓		✓	N/A
4. SCS (LCS)	✓	✓		✓	✓
5. DCS (LSCD)	N/A	N/A		✓	N/A
6. MATIX SPIKE/DUP	(6&7)	✓		✓	(11)
7. DILUTIONS	(8)	(9)		✓	✓
8.	O	O		O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (7) Spike recoveries for lead and tin were outside control limits. Therefore, all related detects were qualified as estimated and estimated non-detect.

COMMENTS: (6) Spike recoveries for chromium and zinc were above control limits, due to abundance of target analyte. However, the spike amount added in <4x's the original sample result (SS322001). Therefore, the % recovery does not apply, and no action is necessary.
(8) Serial dilutions for cadmium, nickel, and zinc were >10x's due to matrix interference. The lab qualified this data as estimated, however, no additional qualifiers have been added by us.
(9) Sample SS322001 was diluted by 2x's, however no action is necessary.
(10) Cyanide was detected in method blank 1125S, however, all results were non-detect, so no action is necessary.
(11) The MS % recover was below control limits. However, since the LCS recovery was within control limits, no action is necessary.

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LOG NO: S9-17950
Received: 24 NOV 99
Reported: 17 JAN 00

Ms. Heather Halderman
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2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR007/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 160900117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	240U
Acetone, ug/kg dw	61U
Benzene, ug/kg dw	6.1U
Bromodichloromethane, ug/kg dw	6.1U
Bromomethane (Methyl bromide), ug/kg dw	12U
Carbon disulfide, ug/kg dw	6.1U
Chlorobenzene, ug/kg dw	6.1U
Dibromochloromethane, ug/kg dw	6.1U
Chloroethane, ug/kg dw	12U
Chloromethane (Methyl chloride), ug/kg dw	12U
Chloroform, ug/kg dw	6.1U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	6.1U
Chloroprene, ug/kg dw	6.1U
1,2-Dibromo-3-chloropropane, ug/kg dw	12U
1,2-Dibromoethane (EDB), ug/kg dw	6.1U
trans-1,4-Dichloro-2-butene, ug/kg dw	6.1U
Dichlorodifluoromethane, ug/kg dw	6.1U
1,1-Dichloroethane, ug/kg dw	6.1U
1,2-Dichloroethane, ug/kg dw	6.1U
cis-1,2-Dichloroethene, ug/kg dw	6.1U
trans-1,2-Dichloroethene, ug/kg dw	6.1U
1,1-Dichloroethylene, ug/kg dw	6.1U

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Sampled By: Client
Code: 160900117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1
Methylene chloride (Dichloromethane), ug/kg dw	6.1U
1,2-Dichloropropane, ug/kg dw	6.1U
cis-1,3-Dichloropropene, ug/kg dw	6.1U
trans-1,3-Dichloropropene, ug/kg dw	6.1U
Ethylbenzene, ug/kg dw	6.1U
Methyl ethyl ketone, ug/kg dw	31U
Iodomethane (Methyl iodide), ug/kg dw	6.1U
Methacrylonitrile, ug/kg dw	120U
4-Methyl-2-pentanone (MIBK), ug/kg dw	31U
Pentachloroethane, ug/kg dw	31U
Styrene, ug/kg dw	6.1U
1,1,1,2-Tetrachloroethane, ug/kg dw	6.1U
1,1,2,2-Tetrachloroethane, ug/kg dw	6.1U
Tetrachloroethene, ug/kg dw	6.1U
Carbon tetrachloride, ug/kg dw	6.1U
Toluene, ug/kg dw	6.1U
Bromoform, ug/kg dw	6.1U
1,1,2-Trichloroethane, ug/kg dw	6.1U
1,1,1-Trichloroethane, ug/kg dw	6.1U
Trichloroethene, ug/kg dw	6.1U
Trichlorofluoromethane, ug/kg dw	6.1U
1,2,3-Trichloropropane, ug/kg dw	6.1U
Vinyl acetate, ug/kg dw	12U

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Contract No.: S7219
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Sampled By: Client
Code: 160900117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1
Vinyl chloride, ug/kg dw	12U
Xylenes, Total, ug/kg dw	12U
2-Hexanone, ug/kg dw	31U
Propionitrile, ug/kg dw	120U
Methyl methacrylate, ug/kg dw	6.1U
Acrolein (Propenal), ug/kg dw	120U
Acrylonitrile, ug/kg dw	120U
Ethyl methacrylate, ug/kg dw	6.1U
Isobutanol (Isobutyl alcohol), ug/kg dw	240U
Dibromomethane, ug/kg dw	6.1U
Surrogate - Toluene-d8	92 %
Surrogate - 4-Bromofluorobenzene	70 %
Surrogate - Dibromofluoromethane	79 %
Dilution Factor	1.0
Analysis Date	12.03.99
Batch ID	1M1203

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Contract No.: S7219
Project: WRR007/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 160900117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	390U
2-Acetylaminofluorene, ug/kg dw	390U
4-Aminobiphenyl, ug/kg dw	390U
Aniline, ug/kg dw	390U
Aramite (total), ug/kg dw	390U
Benzyl alcohol, ug/kg dw	390U
bis(2-Chloroethoxy)methane, ug/kg dw	390U
bis(2-Chloroethyl)ether, ug/kg dw	390U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	390U
bis(2-Ethylhexyl)phthalate, ug/kg dw	390U
4-Bromophenylphenyl ether, ug/kg dw	390U
Butylbenzylphthalate, ug/kg dw	390U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	770U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	390U
2-Chloronaphthalene, ug/kg dw	390U
2-Chlorophenol, ug/kg dw	390U
4-Chlorophenylphenyl ether, ug/kg dw	390U
Cresol (ortho), ug/kg dw	390U
Diallate, Total, ug/kg dw	390U
Dibenzofuran, ug/kg dw	390U
Di-n-butylphthalate, ug/kg dw	390U

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1
3,3'-Dichlorobenzidine, ug/kg dw	770U
2,4-Dichlorophenol, ug/kg dw	390U
2,6-Dichlorophenol, ug/kg dw	390U
Diethylphthalate, ug/kg dw	390U
p-(Dimethylamino)azobenzene, ug/kg dw	390U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	390U
3,3'-Dimethylbenzidine, ug/kg dw	770U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	78000U
2,4-Dimethylphenol, ug/kg dw	390U
Dimethylphthalate, ug/kg dw	390U
m-Dinitrobenzene , ug/kg dw	390U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2000U
2,4-Dinitrophenol, ug/kg dw	2000U
2,4-Dinitrotoluene, ug/kg dw	390U
2,6-Dinitrotoluene, ug/kg dw	390U
Di-n-octylphthalate, ug/kg dw	390U
1,4-Dioxane, ug/kg dw	390U
Ethyl methanesulfonate, ug/kg dw	390U
Hexachlorobenzene, ug/kg dw	390U
Hexachlorobutadiene, ug/kg dw	390U
Hexachlorocyclopentadiene, ug/kg dw	390U
Hexachloroethane, ug/kg dw	390U

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Sampled By: Client
Code: 160900117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1
Hexachlorophene, ug/kg dw	23000U
Hexachloropropene, ug/kg dw	390U
Isophorone, ug/kg dw	390U
Isosafrole, ug/kg dw	390U
Methapyrilene, ug/kg dw	7700U
3-Methylcholanthrene, ug/kg dw	390U
Methyl methanesulfonate, ug/kg dw	390U
2-Methylnaphthalene, ug/kg dw	390U
1,4-Naphthoquinone, ug/kg dw	390U
1-Naphthylamine, ug/kg dw	390U
2-Naphthylamine, ug/kg dw	390U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2000U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2000U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2000U
Nitrobenzene, ug/kg dw	390U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	390U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2000U
4-Nitroquinoline-1-oxide, ug/kg dw	3900U
N-Nitrosodi-n-butylamine, ug/kg dw	390U
N-Nitrosodiethylamine, ug/kg dw	390U
N-Nitrosodimethylamine, ug/kg dw	390U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	390U
n-Nitrosodi-n-propylamine, ug/kg dw	390U

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Contract No.: S7219
Project: WRR007/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 160900117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1
N-Nitrosomethylethylamine, ug/kg dw	390U
N-Nitrosomorpholine, ug/kg dw	390U
N-Nitrosopiperidine, ug/kg dw	390U
N-Nitrosopyrrolidine, ug/kg dw	390U
5-Nitro-o-toluidine, ug/kg dw	390U
Pentachlorobenzene, ug/kg dw	390U
Pentachloronitrobenzene, ug/kg dw	390U
Pentachlorophenol, ug/kg dw	2000U
Phenacetin, ug/kg dw	390U
Phenol, ug/kg dw	390U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2000U
2-Picoline, ug/kg dw	390U
Pronamide, ug/kg dw	390U
Pyridine, ug/kg dw	390U
Safrole, ug/kg dw	390U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	390U
2,3,4,6-Tetrachlorophenol, ug/kg dw	390U
o-Toluidine, ug/kg dw	390U
1,2,4-Trichlorobenzene, ug/kg dw	390U
2,4,5-Trichlorophenol, ug/kg dw	390U
2,4,6-Trichlorophenol, ug/kg dw	390U
O,O,O-Triethyl phosphorothioate, ug/kg dw	390U
1,3,5-Trinitrobenzene, ug/kg dw	390U

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Contract No.: S7219
Project: WRR007/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 160900117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS322001112399 00S	11-23-99/11:15	WRR007

PARAMETER	17950-1
Famphur, ug/kg dw	390U
Dimethoate, ug/kg dw	390U
Benzenethiol, ug/kg dw	770U
Quinoline, ug/kg dw	770U
Kepone, ug/kg dw	390U
1-Methylnaphthalene, ug/kg dw	390U
Cresol, m & p, ug/kg dw	390U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	390U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	390U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	390U
Surrogate - Phenol-d5	54 %
Surrogate - 2-Fluorophenol	54 %
Surrogate - 2,4,6-Tribromophenol	56 %
Surrogate - Nitrobenzene-d5	50 %
Surrogate - 2-Fluorobiphenyl	55 %
Surrogate - Terphenyl-d14	50 %
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.09.99
Batch ID	1206B

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Contract No.: S7219
Project: WRR007/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 160900117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	2900U
Anthracene, ug/kg dw	1500
Benzo(a)anthracene, ug/kg dw	2400
Benzo(a)pyrene, ug/kg dw	1700
Benzo(b)fluoranthene, ug/kg dw	2100
Benzo(g,h,i)perylene, ug/kg dw	590U
Benzo(k)fluoranthene, ug/kg dw	950
Chrysene, ug/kg dw	2000
Dibenzo(a,h)anthracene, ug/kg dw	1000P
Fluoranthene, ug/kg dw	7600
Fluorene, ug/kg dw	590U
Indeno(1,2,3-cd)pyrene, ug/kg dw	1100
Naphthalene, ug/kg dw	1200U
Phenanthrene, ug/kg dw	4800
Pyrene, ug/kg dw	5100
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	50.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206J

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LOG NO: S9-17950
Received: 24 NOV 99
Reported: 17 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR007/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 160900117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1	
Metals (6010)		
Antimony, mg/kg dw	4.7U	
Arsenic, mg/kg dw	7.0	
Barium, mg/kg dw	370	
Beryllium, mg/kg dw	0.61E	
Cadmium, mg/kg dw	1.3E	
Chromium, mg/kg dw	740	
Cobalt, mg/kg dw	6.2	
Copper, mg/kg dw	44	
Nickel, mg/kg dw	19	
Lead, mg/kg dw	110N	J
Selenium, mg/kg dw	1.1U	
Silver, mg/kg dw	1.1U	
Tin, mg/kg dw	5.6UN	UJ
Thallium, mg/kg dw	1.1U	
Vanadium, mg/kg dw	33	
Zinc, mg/kg dw	280E	
Dilution Factor	1.0	
Prep Date	01.07.00	
Analysis Date	01.10.00	
Batch ID	0107A	

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-1	SS32200111239900S	11-23-99/11:15	WRR007

PARAMETER	17950-1
Mercury (7471)	
Mercury, mg/kg dw	0.92
Dilution Factor	2.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.06.99
Batch ID	1206S
Sulfide (9030), mg/kg dw	29U
Dilution Factor	1
Prep Date	11.29.99
Analysis Date	11.29.99
Batch ID	1129A
Percent Solids	85

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2
Volatile Organic Compounds (8260)	
Acetonitrile, ug/kg dw	300U
Acetone, ug/kg dw	74U
Benzene, ug/kg dw	7.4U
Bromodichloromethane, ug/kg dw	7.4U
Bromomethane (Methyl bromide), ug/kg dw	15U
Carbon disulfide, ug/kg dw	7.4U
Chlorobenzene, ug/kg dw	7.4U
Dibromochloromethane, ug/kg dw	7.4U
Chloroethane, ug/kg dw	15U
Chloromethane (Methyl chloride), ug/kg dw	15U
Chloroform, ug/kg dw	7.4U
3-Chloro-1-propene (Allyl chloride), ug/kg dw	7.4U
Chloroprene, ug/kg dw	7.4U
1,2-Dibromo-3-chloropropane, ug/kg dw	15U
1,2-Dibromoethane (EDB), ug/kg dw	7.4U
trans-1,4-Dichloro-2-butene, ug/kg dw	7.4U
Dichlorodifluoromethane, ug/kg dw	7.4U
1,1-Dichloroethane, ug/kg dw	7.4U
1,2-Dichloroethane, ug/kg dw	7.4U
cis-1,2-Dichloroethene, ug/kg dw	7.4U
trans-1,2-Dichloroethene, ug/kg dw	7.4U
1,1-Dichloroethylene, ug/kg dw	7.4U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2
Methylene chloride (Dichloromethane), ug/kg dw	7.4U
1,2-Dichloropropane, ug/kg dw	7.4U
cis-1,3-Dichloropropene, ug/kg dw	7.4U
trans-1,3-Dichloropropene, ug/kg dw	7.4U
Ethylbenzene, ug/kg dw	7.4U
Methyl ethyl ketone, ug/kg dw	37U
Iodomethane (Methyl iodide), ug/kg dw	7.4U
Methacrylonitrile, ug/kg dw	150U
4-Methyl-2-pentanone (MIBK), ug/kg dw	37U
Pentachloroethane, ug/kg dw	37U
Styrene, ug/kg dw	7.4U
1,1,1,2-Tetrachloroethane, ug/kg dw	7.4U
1,1,2,2-Tetrachloroethane, ug/kg dw	7.4U
Tetrachloroethene, ug/kg dw	7.4U
Carbon tetrachloride, ug/kg dw	7.4U
Toluene, ug/kg dw	7.4U
Bromoform, ug/kg dw	7.4U
1,1,2-Trichloroethane, ug/kg dw	7.4U
1,1,1-Trichloroethane, ug/kg dw	7.4U
Trichloroethene, ug/kg dw	7.4U
Trichlorofluoromethane, ug/kg dw	7.4U
1,2,3-Trichloropropane, ug/kg dw	7.4U
Vinyl acetate, ug/kg dw	15U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2
Vinyl chloride, ug/kg dw	15U
Xylenes, Total, ug/kg dw	15U
2-Hexanone, ug/kg dw	37U
Propionitrile, ug/kg dw	150U
Methyl methacrylate, ug/kg dw	7.4U
Acrolein (Propenal), ug/kg dw	150U
Acrylonitrile, ug/kg dw	150U
Ethyl methacrylate, ug/kg dw	7.4U
Isobutanol (Isobutyl alcohol), ug/kg dw	300U
Dibromomethane, ug/kg dw	7.4U
Surrogate - Toluene-d8	93 %
Surrogate - 4-Bromofluorobenzene	78 %
Surrogate - Dibromofluoromethane	77 %
Dilution Factor	1.0
Analysis Date	12.03.99
Batch ID	1M1203

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2
Acids and Base Neutrals (8270-APP9)	
Acetophenone, ug/kg dw	380U
2-Acetylaminofluorene, ug/kg dw	380U
4-Aminobiphenyl, ug/kg dw	380U
Aniline, ug/kg dw	380U
Aramite (total), ug/kg dw	380U
Benzyl alcohol, ug/kg dw	380U
bis(2-Chloroethoxy)methane, ug/kg dw	380U
bis(2-Chloroethyl)ether, ug/kg dw	380U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	380U
bis(2-Ethylhexyl)phthalate, ug/kg dw	380U
4-Bromophenylphenyl ether, ug/kg dw	380U
Butylbenzylphthalate, ug/kg dw	380U
4-Chloroaniline (p-Chloroaniline), ug/kg dw	760U
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	380U
2-Chloronaphthalene, ug/kg dw	380U
2-Chlorophenol, ug/kg dw	380U
4-Chlorophenylphenyl ether, ug/kg dw	380U
Cresol (ortho), ug/kg dw	380U
Diallate, Total, ug/kg dw	380U
Dibenzofuran, ug/kg dw	380U
Di-n-butylphthalate, ug/kg dw	380U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2
3,3'-Dichlorobenzidine, ug/kg dw	760U
2,4-Dichlorophenol, ug/kg dw	380U
2,6-Dichlorophenol, ug/kg dw	380U
Diethylphthalate, ug/kg dw	380U
p-(Dimethylamino)azobenzene, ug/kg dw	380U
7,12-Dimethylbenz(a)anthracene, ug/kg dw	380U
3,3'-Dimethylbenzidine, ug/kg dw	760U
alpha,alpha-Dimethylphenethylamine, ug/kg dw	77000U
2,4-Dimethylphenol, ug/kg dw	380U
Dimethylphthalate, ug/kg dw	380U
m-Dinitrobenzene , ug/kg dw	380U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	2000U
2,4-Dinitrophenol, ug/kg dw	2000U
2,4-Dinitrotoluene, ug/kg dw	380U
2,6-Dinitrotoluene, ug/kg dw	380U
Di-n-octylphthalate, ug/kg dw	380U
1,4-Dioxane, ug/kg dw	380U
Ethyl methanesulfonate, ug/kg dw	380U
Hexachlorobenzene, ug/kg dw	380U
Hexachlorobutadiene, ug/kg dw	380U
Hexachlorocyclopentadiene, ug/kg dw	380U
Hexachloroethane, ug/kg dw	380U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2
Hexachlorophene, ug/kg dw	23000U
Hexachloropropene, ug/kg dw	380U
Isophorone, ug/kg dw	380U
Isosafrole, ug/kg dw	380U
Methapyrilene, ug/kg dw	7600U
3-Methylcholanthrene, ug/kg dw	380U
Methyl methanesulfonate, ug/kg dw	380U
2-Methylnaphthalene, ug/kg dw	380U
1,4-Naphthoquinone, ug/kg dw	380U
1-Naphthylamine, ug/kg dw	380U
2-Naphthylamine, ug/kg dw	380U
2-Nitroaniline (o-Nitroaniline), ug/kg dw	2000U
3-Nitroaniline (m-Nitroaniline), ug/kg dw	2000U
4-Nitroaniline (p-Nitroaniline), ug/kg dw	2000U
Nitrobenzene, ug/kg dw	380U
2-Nitrophenol (o-Nitrophenol), ug/kg dw	380U
4-Nitrophenol (p-Nitrophenol), ug/kg dw	2000U
4-Nitroquinoline-1-oxide, ug/kg dw	3800U
N-Nitrosodi-n-butylamine, ug/kg dw	380U
N-Nitrosodiethylamine, ug/kg dw	380U
N-Nitrosodimethylamine, ug/kg dw	380U
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	380U
n-Nitrosodi-n-propylamine, ug/kg dw	380U

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2
N-Nitrosomethylethylamine, ug/kg dw	380U
N-Nitrosomorpholine, ug/kg dw	380U
N-Nitrosopiperidine, ug/kg dw	380U
N-Nitrosopyrrolidine, ug/kg dw	380U
5-Nitro-o-toluidine, ug/kg dw	380U
Pentachlorobenzene, ug/kg dw	380U
Pentachloronitrobenzene, ug/kg dw	380U
Pentachlorophenol, ug/kg dw	2000U
Phenacetin, ug/kg dw	380U
Phenol, ug/kg dw	380U
1,4-Phenylenediamine (p-Phenylenediamine), ug/kg dw	2000U
2-Picoline, ug/kg dw	380U
Pronamide, ug/kg dw	380U
Pyridine, ug/kg dw	380U
Safrole, ug/kg dw	380U
1,2,4,5-Tetrachlorobenzene, ug/kg dw	380U
2,3,4,6-Tetrachlorophenol, ug/kg dw	380U
o-Toluidine, ug/kg dw	380U
1,2,4-Trichlorobenzene, ug/kg dw	380U
2,4,5-Trichlorophenol, ug/kg dw	380U
2,4,6-Trichlorophenol, ug/kg dw	380U
O,O,O-Triethyl phosphorothioate, ug/kg dw	380U
1,3,5-Trinitrobenzene, ug/kg dw	380U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2
Famphur, ug/kg dw	380U
Dimethoate, ug/kg dw	380U
Benzenethiol, ug/kg dw	760U
Quinoline, ug/kg dw	760U
Kepone, ug/kg dw	380U
1-Methylnaphthalene, ug/kg dw	380U
Cresol, m & p, ug/kg dw	380U
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	380U
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	380U
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	380U
Surrogate - Phenol-d5	66 %
Surrogate - 2-Fluorophenol	63 %
Surrogate - 2,4,6-Tribromophenol	74 %
Surrogate - Nitrobenzene-d5	63 %
Surrogate - 2-Fluorobiphenyl	68 %
Surrogate - Terphenyl-d14	63 %
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.09.99
Batch ID	1206B

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2
Polynuclear Aromatics (8310)	
Acenaphthene, ug/kg dw	580U
Anthracene, ug/kg dw	630
Benzo(a)anthracene, ug/kg dw	1100
Benzo(a)pyrene, ug/kg dw	1000
Benzo(b)fluoranthene, ug/kg dw	1100
Benzo(g,h,i)perylene, ug/kg dw	1200P
Benzo(k)fluoranthene, ug/kg dw	520
Chrysene, ug/kg dw	1000
Dibenzo(a,h)anthracene, ug/kg dw	460P
Fluoranthene, ug/kg dw	3500
Fluorene, ug/kg dw	170
Indeno(1,2,3-cd)pyrene, ug/kg dw	650
Naphthalene, ug/kg dw	230U
Phenanthrene, ug/kg dw	~~2100E~~ 1700D
Pyrene, ug/kg dw	2300
Surrogate - Terphenyl-d14	0 %D
Dilution Factor	10.0
Prep Date	12.06.99
Analysis Date	12.07.99
Batch ID	1206J

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17950-2	SS32200311239900S	11-23-99/11:45	WRR007

PARAMETER	17950-2	
Metals (6010)		
Antimony, mg/kg dw	14	
Arsenic, mg/kg dw	6.3	
Barium, mg/kg dw	500	
Beryllium, mg/kg dw	0.64E	
Cadmium, mg/kg dw	2.6E	
Chromium, mg/kg dw	470	
Cobalt, mg/kg dw	5.9	
Copper, mg/kg dw	98	
Nickel, mg/kg dw	18	
Lead, mg/kg dw	220N	J
Selenium, mg/kg dw	1.2U	
Silver, mg/kg dw	1.2U	
Tin, mg/kg dw	5.8UN	UJ
Thallium, mg/kg dw	1.2U	
Vanadium, mg/kg dw	25	
Zinc, mg/kg dw	490E	
Dilution Factor	1.0	
Prep Date	01.07.00	
Analysis Date	01.10.00	
Batch ID	0107A	

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-2	SS322003112399 00S	11-23-99/11:45	WRR007

PARAMETER	17950-2
Mercury (7471)	
Mercury, mg/kg dw	0.37
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.08.99
Batch ID	1206S
Cyanide (9010)	
Cyanide, Total, mg/kg dw	1.2U
Dilution Factor	1.0
Prep Date	12.06.99
Analysis Date	12.06.99
Batch ID	1206S
Sulfide (9030), mg/kg dw	29U
Dilution Factor	1
Prep Date	11.29.99
Analysis Date	11.29.99
Batch ID	1129A
Percent Solids	86

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-3	SS302004112399005	11-23-99/12:30	WRR007

PARAMETER	17950-3
pH in Soil (9045)	
pH, units	7.18
Prep Date	12.13.99
Analysis Date	12.13.99
Batch ID	1213Y
Organic Carbon (WALKLEY-BLACK), mg/kg dw	9800
Dilution Factor	1.0
Prep Date	12.08.99
Analysis Date	12.08.99
Batch ID	1208X
Moisture (% Loss on drying @ 105 C), %	38
Percent Solids	69

Elizabeth F. Beauchamp, Project Manager

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LOG NO: S9-17950
Received: 24 NOV 99
Reported: 17 JAN 00

Ms. Heather Halderman
Woodward Clyde Consultants
2318 Millpark Drive
Maryland Heights, MO 63043

Contract No.: S7219
Project: WRR007/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-4	SSP-1341123990GW	11-23-99/13:30	WRR007

PARAMETER	17950-4
Polynuclear Aromatics (8310)	
Acenaphthene, ug/l	1.0U
Anthracene, ug/l	0.20U
Benzo(a)anthracene, ug/l	0.20U
Benzo(a)pyrene, ug/l	0.20U
Benzo(b)fluoranthene, ug/l	0.20U
Benzo(g,h,i)perylene, ug/l	0.50U
Benzo(k)fluoranthene, ug/l	0.20U
Chrysene, ug/l	0.20U
Dibenzo(a,h)anthracene, ug/l	0.20U
Fluoranthene, ug/l	0.50U
Fluorene, ug/l	0.50U
Indeno(1,2,3-cd)pyrene, ug/l	0.20U
Naphthalene, ug/l	1.0U
Phenanthrene, ug/l	0.20U
Pyrene, ug/l	0.50U
Surrogate - Terphenyl-d14	56 %
Dilution Factor	1.0
Prep Date	11.30.99
Analysis Date	12.02.99
Batch ID	1130K

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Sampled By: Client
Code: 161000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-4	SSP-1341123990GW	11-23-99/13:30	WRR007

PARAMETER	17950-4
Diesel Range Organics (8015)	
Hydrocarbons as DRO, mg/l	0.61
Surrogate - o-Terphenyl	80 %
Dilution Factor	1.0
Prep Date	11.26.99
Analysis Date	12.01.99
Batch ID	1126V
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, mg/l	0.056
Surrogate - a,a,a-Trifluorotoluene	140 %
Dilution Factor	1.0
Analysis Date	11.29.99
Batch ID	1D1129
Volatile Organic Compounds (8260)	
Benzene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Toluene, ug/l	5.0U
Xylenes, Total, ug/l	10U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	98 %
Surrogate - Dibromofluoromethane	118 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	2B1130

Elizabeth F. Beauchamp, Project Manager

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Contract No.: S7219
Project: WRR007/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-5	Trip Blank TB019 (942c)	11-23-99	WRR007

PARAMETER	17950-5
Volatile Organic Compounds (8260)	
Acetonitrile, ug/l	200U
Acetone, ug/l	50U
Benzene, ug/l	5.0U
Bromodichloromethane, ug/l	5.0U
Bromomethane (Methyl bromide), ug/l	10U
Carbon disulfide, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Dibromochloromethane, ug/l	5.0U
Chloroethane, ug/l	10U
Chloromethane (Methyl chloride), ug/l	10U
Chloroform, ug/l	5.0U
3-Chloro-1-propene (Allyl chloride), ug/l	5.0U
Chloroprene, ug/l	5.0U
1,2-Dibromo-3-chloropropane, ug/l	5.0U
1,2-Dibromoethane (EDB), ug/l	5.0U
trans-1,4-Dichloro-2-butene, ug/l	10U
Dichlorodifluoromethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
cis-1,2-Dichloroethene, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
1,1-Dichloroethylene, ug/l	5.0U

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Sampled By: Client
Code: 161000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-5	Trip Blank TB019 (942c)	11-23-99	WRR007

PARAMETER	17950-5
Methylene chloride (Dichloromethane), ug/l	5.0U
1,2-Dichloropropane, ug/l	5.0U
cis-1,3-Dichloropropene, ug/l	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methyl ethyl ketone, ug/l	25U
Iodomethane (Methyl iodide), ug/l	5.0U
Methacrylonitrile, ug/l	100U
4-Methyl-2-pentanone (MIBK), ug/l	25U
Pentachloroethane, ug/l	25U
Styrene, ug/l	5.0U
1,1,1,2-Tetrachloroethane, ug/l	5.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Carbon tetrachloride, ug/l	5.0U
Toluene, ug/l	5.0U
Bromoform, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
1,2,3-Trichloropropane, ug/l	5.0U
Vinyl acetate, ug/l	10U

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Project: WRR007/2389C8602F.01-0D200/SWMU's S,T,V
Sampled By: Client
Code: 161000117

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17950-5	Trip Blank TB019 (942c)	11-23-99	WRR007

PARAMETER	17950-5
Vinyl chloride, ug/l	10U
Xylenes, Total, ug/l	10U
2-Hexanone, ug/l	25U
Propionitrile, ug/l	100U
Methyl methacrylate, ug/l	5.0U
Acrolein (Propenal), ug/l	100U
Acrylonitrile, ug/l	100U
Ethyl methacrylate, ug/l	5.0U
Isobutanol (Isobutyl alcohol), ug/l	200U
Dibromomethane, ug/l	5.0U
Surrogate - Toluene-d8	90 %
Surrogate - 4-Bromofluorobenzene	98 %
Surrogate - Dibromofluoromethane	118 %
Dilution Factor	1.0
Analysis Date	11.30.99
Batch ID	2B1130

Methods: EPA SW-846, Update III.

Elizabeth E. Beauchamp, Project Manager

INORGANIC DATA ASSESSMENT

PROJECT NO. 2389C8602F.01 - 0D200
LABORATORY . STL- Savannah
LABORATORY NO. S7219 (WRR002A & 3A)
NO. OF SAMPLES/
MATRIX 6 Soils

SITE WRRC – SWMUs S,T, V

REVIEWER URS Corporation
REVIEWER'S NAME
COMPLETION DATE 4/10/00

DATA ASSESSMENT WORKSHEET

	(TCLP As, Cr, PB) Meth # 601B0	(TCLP As, Cr, PB) Meth # 601B0	Meth #	Meth #	Meth #
1. HOLDING TIMES	✓	✓			
2. BLANKS	✓	✓			
3. DUPLICATES	(1)	✓			
4. SCS (LCS)	✓	✓			
5. DCS (LSCD)	N/A	✓			
6. MATIX SPIKE/DUP	(2)	✓			
7. DILUTIONS	(3)	(4)			
8.	O	O			

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data

ACTION ITEMS: (1) The duplicate RPD was high for lead in sample SS369011 Therefore, the associated sample results were qualified as estimated.

COMMENTS: (2) The MS/MSD (SS369011) was diluted by 10x's, however no action is necessary.
(3) The serial dilution for chromium in sample SS369011 was >10x's. However, since the sample result is >50x's the instrument detection limit (IDL), no qualification is necessary.
(4) The serial dilution for chromium in sample SS366012 was >10x's. However, since the sample result is >50x's the instrument detection limit (IDL), no qualification is necessary.

Savannah Laboratories

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SS36901111099900S

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: WRR002A

Matrix (soil/water): TCLP Lab Sample ID: S917577A-1

Level (low/med): LOW Date Received: 20-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	0.010	U		P	
7440-47-3	Chromium	0.011			P	
7439-92-1	Lead	0.012		*	P	u

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

Savannah Laboratories

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
SS36401411109900S

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: WRR002A

Matrix (soil/water): TCLP Lab Sample ID: S917621A-1

Level (low/med): LOW Date Received: 20-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	0.010	U		P	
7440-47-3	Chromium	0.010	U		P	
7439-92-1	Lead	0.0050	U	*	P	u

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

Savannah Laboratories

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
SS36701111109900S

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: WRR002A

Matrix (soil/water): TCLP Lab Sample ID: S917621A-2

Level (low/med): LOW Date Received: 20-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-38-2	Arsenic	0.010	U		P	
7440-47-3	Chromium	0.010	U		P	
7439-92-1	Lead	0.0050	U	*	P	u

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

Savannah Laboratories

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SS36001211119900S

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: WRR003A

Matrix (soil/water): TCLP Lab Sample ID: S917660A-2

Level (low/med): LOW Date Received: 20-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.010	U		P
7440-47-3	Chromium	0.048			P
7439-92-1	Lead	0.0050	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

Savannah Laboratories

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
SS36601211129900S

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: WRR003A

Matrix (soil/water): TCLP Lab Sample ID: S917697A-2

Level (low/med): LOW Date Received: 20-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.010	U		P
7440-47-3	Chromium	0.010	U		P
7439-92-1	Lead	0.0050	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

Savannah Laboratories

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SS36300411129900S

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: WRR003A

Matrix (soil/water): TCLP Lab Sample ID: S917697A-3

Level (low/med): LOW Date Received: 13-NOV-1999

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.010	U		P
7440-47-3	Chromium	0.017			P
7439-92-1	Lead	0.0050	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments: