SDMS US EPA REGION V

COLOR - RESOLUTION - 3

IMAGERY INSERT FORM

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SITE NAME	SAUGET AREA 2
DOC ID #	150798
DOCUMENT VARIATION	__X__ COLOR **OR** ___ RESOLUTION
PRP	
PHASE	SAS
OPERABLE UNITS	
LOCATION	Box #__ Folder #____ Subsection_____
PHASE (AR DOCUMENTS ONLY)	___ Remedial ___ Removal ___ Deletion Docket ___ ___ Original ___ Update # ___ Volume ___ of ___
COMMENT(S) SITE LOCATION MAPS	

150798

U.S. EPA Validated Sediment Sampling Results (10/27/00 - 11/3/00) from the Mississippi River at the Solutia Facility Located in Sauget, IL

- The Mississippi River sediments are mainly fine and coarse sands, with fine sand sediments generally occurring within 100' of the riverbank and coarse sand found greater than 100' from the bank. Along the southern half of Site R, there is a finer silt area located between the fine and coarse sands, apparently associated with a man-made underwater structure that allows for deposition of fines.

- Higher levels of total organic carbon (TOC) are associated with the fine sands and silts located near the riverbank. TOC is very low (<120 ppm) in the coarse sands.

- The areal extent of contaminated sediments in the Mississippi River generally begins upstream near the northern boundary of Site R and extends downstream beyond the southern boundary of Site R. Contaminated sediments are generally found within 150' of the riverbank but extend greater than 300' from the riverbank in the vicinity of the silt deposits at the southern-half of Site R.

- The areal extent of contaminated sediments is best defined by the presence of elevated concentrations of chlorobenzene at twelve sediment sample locations and to a lesser extent, 4-chloroaniline and benzene found at seven and six sediment sample locations.

- Elevated concentrations of aniline, dichlorobenzenes, PCBs, and Δ-BHC are also present in three to five sediment sample locations.

- Elevated concentrations of 1,2-dichloroethane, toluene, methoxychlor, 2,4-D, chlorobenzilate, 4,4'-DDD, bis(2-ethylhexyl)phthalate, 3-methylphenol, 2-chlorophenol, 2,4-dichlorophenol, phenol, ethylbenzene, and xylenes were also present in one or two sediment sample locations.

- None of the hazardous constituents listed above were found in any significant concentration at the upstream sample. All the hazardous constituents found in sediments appear to be associated with the groundwater discharge plume in the vicinity of Site R.

- Region 5 Ecological Data Quality Levels (EDQLs) for detected hazardous constituents are exceeded at a total of eleven of the twenty-one (52%) sediment sample locations. The number of sample locations exceeding EDQLs for specific hazardous constituents are:

U.S. EPA Validated Sediment Sampling Results (10/27/00 - 11/3/00) from the Mississippi River at the Solutia Facility Located in Sauget, IL

Hazardous Constituent	EDQL in μg/kg (ppb)	# of Sample Locations > EDQL
chlorobenzene	62	10
aniline	0.034	5
4-chloroaniline	146	4
PCBs	34	2
ethylbenzene	0.1	1
p-dichlorobenzene (1,4)	1,450	1
2,4-D	5.8	1
4,4'-DDD	5.5	1
3-methylphenol (m-cresol)	0.845	1
2-chlorophenol	11.7	1
2,4-dichlorophenol	133.6	1
phenol	27.3	1
benzene	142	0
toluene	52,500	0
o-dichlorobenzene (1,2)	3,010	0
m-dichlorobenzene (1,3)	231	0
xylenes	1,880	0
Δ-BHC	71,500	0
methoxychlor	3.6	0
chlorobenzilate	860	0
bis(2-ethylhexyl)phthalate	182	0

U.S. EPA Validated Sediment Sampling Results (10/27/00 - 11/3/00) from the Mississippi River at the Solutia Facility Located in Sauget, IL

- From north to south, the sediment sample locations that have concentrations of hazardous constituents exceeding EDQLs are SD-2-150, PDA-8-60, SD-3-99, PDA-5-60, SD-4-90, SD-5-75, SD-5-150, SD-5-315, PDA-2-60, SD-6-90, and SD-7-150 (see figure). These sample locations correspond to the northern boundary of Site R and beyond the southern boundary of Site R.

- Neither of the two far downstream samples (SD-8-57 and SD-9-51) had concentrations of hazardous constituents exceeding EDQLs (see figure).

- The inner core of contaminated sediments (>10 ppm total organics) is found at PDA-5-60, PDA-2-60, and SD-5-150 with an outer core of contaminated sediments (>1 ppm total organics) found at SD-2-150, PDA-8-60, SD-5-75, SD-5-315, and SD-7-150. The outer core is consistent with the Site R boundary and the inner core is consistent with the southern-half of Site R, approximately 60' to 150' from the riverbank.

- The detection limits for hazardous constituents are highly elevated at sample locations PDA-5-60, PDA-2-60, and SD-5-150 due to the presence of significant contamination.

1000 0 1000 2000 Feet

- **TETRA TECH SAMPLING LOCATION**
- **MENZIE-CURA SAMPLING LOCATION**

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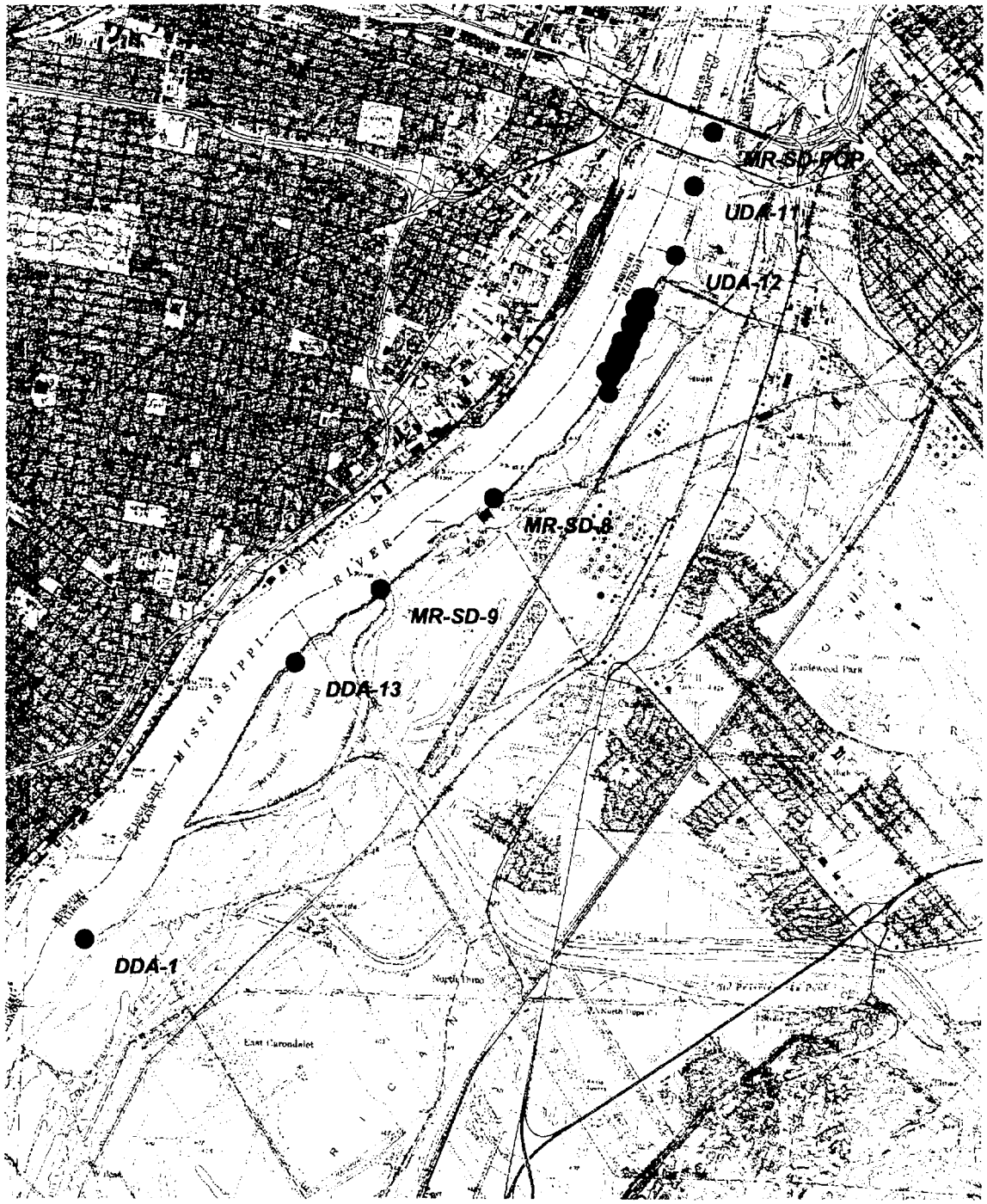
SOLUTIA FACILITY, SAUGET, ILLINOIS
SAMPLING LOCATIONS
ADJACENT TO SITE R

TETRA TECH EM INC.



6000 0 6000 12000 Feet

- **TETRA TECH SAMPLING LOCATION**
- **MENZIE-CURA SAMPLING LOCATION**

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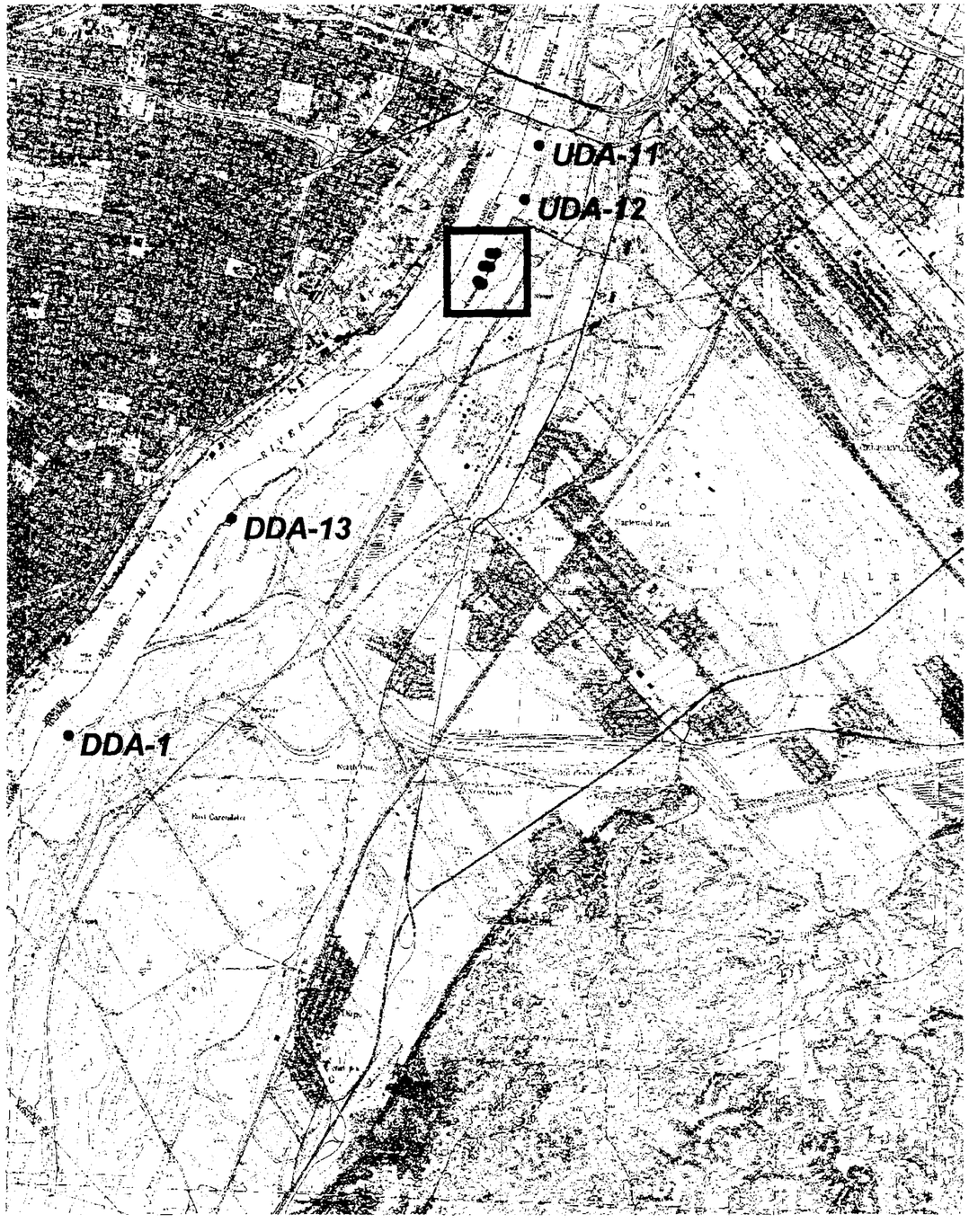
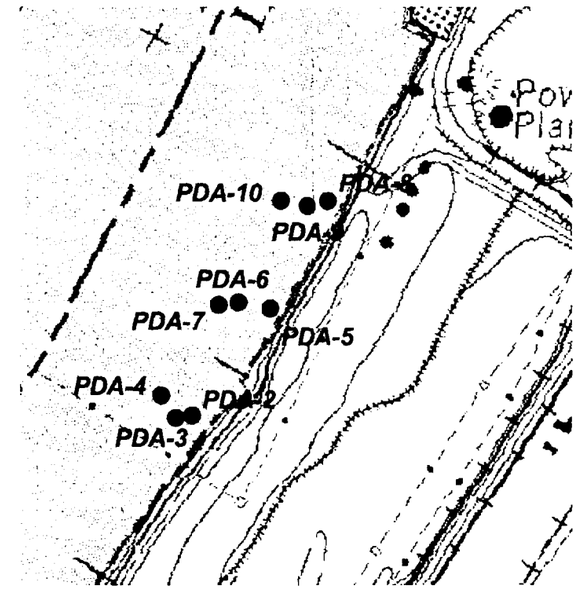
SOLUTIA FACILITY, SAUGET, ILLINOIS
UPSTREAM AND DOWNSTREAM
SAMPLING LOCATIONS

TETRA TECH EM INC.



8000 0 8000 Feet



600 0 600 1200 Feet

• SAMPLING LOCATION

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SOLUTIA FACILITY , SAUGET, ILLINOIS
MENZIE-CURA
SAMPLING LOCATIONS

TETRA TECH EM INC.

TABLE 1

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA INC. SPLIT SAMPLES

Sample Identification	PDA-2-60	PDA-5-R-60	PDA-8-60
Date Collected	October 25, 2000	October 24, 2000	October 26, 2000
Volatile Organic Compounds (micrograms per kilogram [µg/kg])			
Acetone	5,800 U	3,300U	1,400 U
Benzene	1,100 U	260 U	3.40 U
Chlorobenzene	10,000	450	700
1,2-Dichloroethane	1,100 U	110 J	41 J
Methylene chloride	1,100 U	260 U	340 U
Toluene	12,000	140 J	340 U
Xylenes (total)	1,100 U	120 J	340 U
Semivolatile Organic Compounds (µg/kg)			
Aniline	210 J	3,900 J	410 U
4-Chloroaniline	720	3,300	410 U
2-Chlorophenol	580 U	400 J	410 U
1,2-Dichlorobenzene	120 J	780 U	410 U
1,4-Dichlorobenzene	390 J	780 U	410 U
2,4-Dichlorophenol	580 U	610 J	410 U
3-Methylphenol	95 J	780 U	410 U
Phenol	580 U	3,200 J	410 U
2,4,6-Trichlorophenol	580 U	780 U	410 U
2,6-Dichlorophenol	580 U	780 U	410 U
Organochlorine Pesticides (µg/kg)			
Aldrin	6.0 U	4.0 U	2.1 U
alpha-BHC	6.0 U	4.0 U	2.1 U
beta-BHC	6.0 U	4.0 U	2.1 U
delta-BHC	6.0 U	44 J	5.1 J
gamma-BHC (lindane)	6.0 U	4.0 U	2.1 U
Chlordane (technical)	60 U	40 U	21 U
Chlorobenzilate	120 U	21 J	41 U
4,4-DDD	6.0 U	14	2.1 U
4,4-DDE	6.0 U	4.0 U	2.1 U
4,4-DDT	6.0 U	4.0 U	2.1 U
Diallate	120 U	78 U	41 U
Dieldrin	6.0 U	4.0 U	2.1 U

TABLE 1 (continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA INC. SPLIT SAMPLES

Sample Identification	PDA-2-60	PDA-5-R-60	PDA-8-60
Date Collected	October 25, 2000	October 24, 2000	October 26, 2000
Organochlorine Pesticides (µg/kg) (Continued)			
Endosulfan I	6.0 U	4.0 U	2.1 U
Endosulfan II	6.0 U	4.0 U	2.1 U
Endosulfan sulfate	6.0 U	4.0 U	2.1 U
Endrin	6.0 U	4.0 U	2.1 U
Endrin aldehyde	6.0 U	4.0 U	2.1 U
Heptachlor	6.0 U	4.0 U	2.1 U
Heptachlor epoxide	6.0 U	4.0 U	2.1 U
Isodrin	12 U	7.8 U	4.1 U
Kepone	120 U	78 U	41 U
Methoxychlor	12 U	7.8 U	4.1 U
Toxaphene	230 U	160 U	83 U
Polychlorinated Biphenyls (PCB) (µg/kg)			
Aroclor 1016	58 U	39 U	41 U
Aroclor 1221	58 U	39 U	41 U
Aroclor 1232	58 U	39 U	41 U
Aroclor 1242	58 U	39 U	41 U
Aroclor 1248	58 U	84 J	41 U
Aroclor 1254	58 U	39 U	41 U
Aroclor 1260	58 U	39 U	41 U
Herbicides (µg/kg)			
2,4-D	140 U	790	99 U
2,4,5-TP (Silvex)	35 U	24 U	25 U
2,4,5-T	35 U	24 U	25 U
Organophosphorus Pesticides (µg/kg)			
Dimethoate	1,200 U	39 U	41 U
Disulfoton	1,200 U	39 U	41 U
Famphur	1,200 U	39 U	41 U
Methyl parathion	1,200 U	39 U	41 U
Phorate	1,200 U	39 U	41 U
Tetraethyldithiopyrophosphate	1,200 U	39 U	41 U
Thionazin	1,200 U	39 U	41 U
o,o,o-Triethylphosphorothioate	1,200 U	39 U	41 U

TABLE 1 (continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA INC. SPLIT SAMPLES

Sample Identification	PDA-2-60	PDA-5-R-60	PDA-8-60
Date Collected	October 25, 2000	October 24, 2000	October 26, 2000
General Chemistry (milligram per kilogram)			
Total organic carbon	11,000	390	510

Notes:

J = The result was estimated for quality control reasons.
U = The analyte was not detected; the numerical value is the sample reporting limit.
UJ = The analyte was not detected; the sample reporting limit is estimated for quality control reasons.

TABLE 2

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-1-50	MR-SD-1-150	MR-SD-1-300	MR-SD-2-50	MR-SD-2-150
Date Collected	November 1, 2000				
Volatile Organic Compounds (micrograms per kilogram (µg/kg))					
Acetone	22 U	22 U	26 U	24 U	1,300 U
Benzene	5.5 U	5.4 U	6.4 U	5.9 U	55 J
Chlorobenzene	5.5 U	5.4 U	6.4 U	6.5	390
Chloroform	5.5 U	5.4 U	6.4 U	5.9 U	300 U
Ethylbenzene	5.5 U	5.4 U	6.4 U	5.9 U	300 U
Methylene chloride	5.5 U	5.4 U	6.4 U	5.9 U	300 U
Xylenes (total)	5.5 U	5.4 U	6.4 U	5.9 U	300 U
Semivolatile Organic Compounds (µg/kg)					
Aniline	400 U	390 U	390 U	400 U	400 U
bis(2-Ethylhexyl)phthalate	400 U	390 U	390 U	400 U	400 U
4-Chloroaniline	400 U	390 U	390 U	400 U	99 J
1,2-Dichlorobenzene	400 U	390 U	390 U	400 U	400 U
1,3-Dichlorobenzene	400 U	390 U	390 U	400 U	400 U
1,4-Dichlorobenzene	400 U	390 U	390 U	400 U	400 U
Organochlorine Pesticides (µg/kg)					
Aldrin	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
alpha-BHC	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
beta-BHC	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
delta-BHC	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
gamma-BHC (lindane)	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Chlordane (technical)	20 U	20 U	20 U	21 U	20 U
Chlorobenzilate	40 U	39 U	39 U	40 U	40 U
4,4-DDD	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
4,4-DDE	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
4,4-DDT	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Diallate	40 U	39 U	39 U	40 U	40 U
Dieldrin	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Endosulfan I	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Endosulfan II	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Endosulfan sulfate	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-1-50	MR-SD-1-150	MR-SD-1-300	MR-SD-2-50	MR-SD-2-150
Date Collected	November 1, 2000				
Organochlorine Pesticides (µg/kg) (Continued)					
Endrin	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Endrin aldehyde	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Heptachlor	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Heptachlor epoxide	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Isodrin	4.0 U	3.9 U	3.9 U	4.0 U	4.0 U
Kepone	40 U	39 U	39 U	40 U	40 U
Methoxychlor	4.0 U	3.9 U	3.9 U	4.0 U	4.0 U
Toxaphene	80 U	80 U	79 U	81 U	81 U
Polychlorinated Biphenyls (PCB) (µg/kg)					
Aroclor 1016	40 U	39 U	39 U	40 U	40 U
Aroclor 1221	40 U	39 U	39 U	40 U	40 U
Aroclor 1232	40 U	39 U	39 U	40 U	40 U
Aroclor 1242	40 U	39 U	39 U	40 U	40 U
Aroclor 1248	40 U	39 U	39 U	40 U	40 U
Aroclor 1254	40 U	39 U	39 U	40 U	40 U
Aroclor 1260	40 U	39 U	39 U	40 U	40 U
Herbicides (µg/kg)					
2,4-D	96 U	95 U	94 U	97 U	96 U
2,4,5-TP (Silvex)	24 U	24 U	24 U	24 U	24 U
2,4,5-T	24 U	24 U	24 U	24 U	24 U
Organophosphorus Pesticides (µg/kg)					
Dimethoate	40 U	39 U	39 U	40 U	40 U
Disulfoton	40 U	39 U	39 U	40 U	40 U
Famphur	40 U	39 U	39 U	40 U	40 U
Methyl parathion	40 U	39 U	39 U	40 U	40 U
Phorate	40 U	39 U	39 U	40 U	40 U
Tetraethyldithiopyrophosphate	40 U	39 U	39 U	40 U	40 U
Thionazin	40 U	39 U	39 U	40 U	40 U
o,o,o-Triethylphosphorothioate	40 U	39 U	39 U	40 U	40 U
General Chemistry (milligram per kilogram)					
Total organic carbon	120 U	120 U	120 U	120 U	120 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-2-330	MR-SD-3-25[a]	MR-SD-3-99	MR-SD-4-90	MR-SD-POP-90
Date Collected	November 1, 2000	November 2, 2000			
Volatile Organic Compounds (micrograms per kilogram [µg/kg])					
Acetone	21 U	30 U	160 U	26 U	28 U
Benzene	5.3 U	7.5 U	16 U	4.2 J	7.1 U
Chlorobenzene	5.3 U	7.5 U	3.3 J	100 J	7.1 U
Chloroform	5.3 U	7.5 U	16 U	6.5 U	7.1 U
Ethylbenzene	5.3 U	7.5 U	16 U	2.0 J	7.1 U
Methylene chloride	5.3 U	7.5 U	16 U	6.5 U	7.1 U
Xylenes (total)	5.3 U	7.5 U	16 U	2.6 J	7.1 U
Semivolatile Organic Compounds (µg/kg)					
Aniline	380 U	440	220 J	400 U	410 U
bis(2-Ethylhexyl)phthalate	380 U	390 U	390 U	400 U	410 U
4-Chloroaniline	380 U	390 U	130 J	400 U	410 U
1,2-Dichlorobenzene	380 U	390 U	390 U	400 U	410 U
1,3-Dichlorobenzene	380 U	390 U	390 U	400 U	410 U
1,4-Dichlorobenzene	380 U	390 U	390 U	400 U	410 U
Organochlorine Pesticides (µg/kg)					
Aldrin	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
alpha-BHC	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
beta-BHC	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
delta-BHC	2.0 U	2.0 U	2.0 U	3.7 J	2.1 U
gamma-BHC (lindane)	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Chlordane (technical)	20 U	20 U	20 U	41 U	21 U
Chlorobenzilate	38 U	39 U	39 U	79 U	41 U
4,4-DDD	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
4,4-DDE	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
4,4-DDT	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Diallate	38 U	39 U	39 U	79 U	41 U
Dieldrin	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Endosulfan I	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Endosulfan II	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Endosulfan sulfate	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-2-330	MR-SD-3-25[a]	MR-SD-3-99	MR-SD-4-90	MR-SD-POP-90
Date Collected	November 1, 2000	November 2, 2000			
Organochlorine Pesticides (µg/kg) (Continued)					
Endrin	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Endrin aldehyde	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Heptachlor	2.0 U	2.0 U	2.0 U	4.1 UJ	2.1 U
Heptachlor epoxide	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Isodrin	3.8 U	3.9 U	3.9 U	7.9 U	4.1 U
Kepone	38 U	39 U	39 U	79 U	41 U
Methoxychlor	3.8 U	3.9 U	3.9 U	3.4 J	4.1 U
Toxaphene	78 U	80 U	80 U	160 U	84 U
Polychlorinated Biphenyls (PCB) (µg/kg)					
Aroclor 1016	38 U	39 U	39 U	40 U	41 U
Aroclor 1221	38 U	39 U	39 U	40 U	41 U
Aroclor 1232	38 U	39 U	39 U	40 U	41 U
Aroclor 1242	38 U	39 U	39 U	40 U	41 U
Aroclor 1248	38 U	39 U	39 U	40 U	41 U
Aroclor 1254	38 U	39 U	39 U	40 U	41 U
Aroclor 1260	38 U	39 U	39 U	40 U	41 U
Herbicides (µg/kg)					
2,4-D	93 U	96 U	95 U	96 U	100 U
2,4,5-TP (Silvex)	23 U	24 U	24 U	24 U	25 U
2,4,5-T	23 U	24 U	24 U	24 U	25 U
Organophosphorus Pesticides (µg/kg)					
Dimethoate	38 U	39 UJ	39 UJ	40 UJ	41 UJ
Disulfoton	38 U	39 UJ	39 UJ	40 UJ	41 UJ
Famphur	38 U	39 U	39 U	40 UJ	41 U
Methyl parathion	38 U	39 UJ	39 UJ	40 UJ	41 UJ
Phorate	38 U	39 UJ	39 UJ	40 UJ	41 UJ
Tetraethyldithiopyrophosphate	38 U	39 U	39 U	40 UJ	41 U
Thionazin	38 U	39 U	39 U	40 UJ	41 U
o,o,o-Triethylphosphorothioate	38 U	39 U	39 U	40 UJ	41 U
General Chemistry (milligram per kilogram)					
Total organic carbon	120 U	120 U	120 U	120 U	130 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-5-75	MR-SD-5-150	MR-SD-5-315	MR-SD-6-25[b]	MR-SD-6-90
Date Collected	November 3, 2000				
Volatile Organic Compounds (micrograms per kilogram [µg/kg])					
Acetone	1,300 U	2,500 U	1,300 U	24 U	35 U
Benzene	45 J	58 J	260 U	9.0	0.72 J
Chlorobenzene	1,800	6,700	3,100	82	8.0
Chloroform	370 U	320 U	260 U	6.0 U	5.6 U
Ethylbenzene	370 U	320 U	260 U	6.0 U	5.6 U
Methylene chloride	370 U	320 U	260 U	6.1 U	5.6 U
Xylenes (total)	370 U	320 U	260 U	6.0 U	5.6 U
Semivolatile Organic Compounds (µg/kg)					
Aniline	2,400	3,400	380 U	400 U	400 U
bis(2-Ethylhexyl)phthalate	430 U	430 U	380 U	93 J	400 U
4-Chloroaniline	3,000 J	6,400 J	380 U	400 U	400 U
1,2-Dichlorobenzene	430 U	430 U	380 U	190 J	55 J
1,3-Dichlorobenzene	430 U	430 U	380 U	150 J	400 U
1,4-Dichlorobenzene	300 J	1,700	380 U	330 J	51 J
Organochlorine Pesticides (µg/kg)					
Aldrin	2.2 U	11 U	1.9 U	2.0 U	2.0 U
alpha-BHC	2.2 U	11 U	1.9 U	2.0 U	2.0 U
beta-BHC	2.2 U	11 U	1.9 U	2.0 U	2.0 U
delta-BHC	2.2 U	11 U	1.9 U	2.0 U	2.0 U
gamma-BHC (lindane)	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Chlordane (technical)	22 U	110 U	19 U	20 U	20 U
Chlorobenzilate	43 U	220 U	38 U	40 U	40 U
4,4-DDD	2.2 U	11 U	1.9 U	2.0 U	2.0 U
4,4-DDE	2.2 U	11 U	1.9 U	2.0 U	2.0 U
4,4-DDT	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Diallate	43 U	220 U	38 U	40 U	40 U
Dieldrin	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Endosulfan I	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Endosulfan II	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Endosulfan sulfate	2.2 U	11 U	1.9 U	2.0 U	2.0 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-5-75	MR-SD-5-150	MR-SD-5-315	MR-SD-6-25[b]	MR-SD-6-90
Date Collected	November 3, 2000				
Organochlorine Pesticides (µg/kg) (Continued)					
Endrin	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Endrin aldehyde	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Heptachlor	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Heptachlor epoxide	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Isodrin	4.3 U	22 U	3.8 U	4.0 U	4.0 U
Kepone	43 U	220 U	38 U	40 U	40 U
Methoxychlor	4.3 U	22 U	3.8 U	4.0 U	4.0 U
Toxaphene	88 U	440 U	77 U	81 U	80 U
Polychlorinated Biphenyls (PCB) (µg/kg)					
Aroclor 1016	43 U	120 J	38 U	40 U	40 U
Aroclor 1221	43 U	43 U	38 U	40 U	40 U
Aroclor 1232	43 U	43 U	38 U	40 U	40 U
Aroclor 1242	43 U	43 U	38 U	40 U	40 U
Aroclor 1248	43 U	43 U	38 U	40 U	31 J
Aroclor 1254	43 U	43 U	38 U	40 U	40 U
Aroclor 1260	43 U	43 U	38 U	40 U	40 U
Organochlorine Herbicides (µg/kg)					
2,4-D	100 U	100 U	92 U	96 U	96 U
2,4,5-TP (Silvex)	26 U	26 U	23 U	24 U	24 U
2,4,5-T	26 U	26 U	23 U	24 U	24 U
Organophosphorus Pesticides (µg/kg)					
Dimethoate	43 U	43 U	38 U	40 U	40 U
Disulfoton	43 U	43 U	38 U	40 U	40 U
Famphur	43 U	43 U	38 U	40 U	40 U
Methyl parathion	43 U	43 U	38 U	40 U	40 U
Phorate	43 U	43 U	38 U	40 U	40 U
Tetraethyldithiopyrophosphate	43 U	43 U	38 U	40 U	40 U
Thionazin	43 U	43 U	38 U	40 U	40 U
o,o,o-Triethylphosphorothioate	43 U	43 U	38 U	40 U	40 U
General Chemistry (milligram per kilogram)					
Total organic carbon	200	7,400	110 U	870	1,100

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-7-45	MR-SD-7-150	MR-SD-7-280	MR-SD-8-57	MR-SD-9-51
Date Collected	November 3, 2000			October 27, 2000	
Volatile Organic Compounds (micrograms per kilogram [µg/kg])					
Acetone	35 U	1,600 U	22 U	75 U	120 U
Benzene	5.7 U	36 J	5.5 U	6.0 U	6.8 U
Chlorobenzene	2.2 U	1,600	5.5 U	6.0 U	1.6 J
Chloroform	5.7 U	270 U	5.5 U	6.0 U	6.8 U
Ethylbenzene	5.7 U	270 U	5.5 U	6.0 U	6.8 U
Methylene chloride	5.7 U	270 U	5.5 U	6.0 U	6.8 U
Xylenes (total)	5.7 U	270 U	5.5 U	6.0 U	6.8 U
Semivolatile Organic Compounds (µg/kg)					
Aniline	400 U	390 U	390 U	390 U	420 U
bis(2-Ethylhexyl)phthalate	400 U	390 U	390 U	390 U	420 U
4-Chloroaniline	400 U	58 J	390 U	390 U	420 U
1,2-Dichlorobenzene	400 U	390 U	390 U	390 U	420 U
1,3-Dichlorobenzene	400 U	390 U	390 U	390 U	420 U
1,4-Dichlorobenzene	400 U	390 U	390 U	390 U	420 U
Organochlorine Pesticides (µg/kg)					
Aldrin	2.1 U	2.0 U	2.0 U	2.0 U	11 U
alpha-BHC	2.1 U	2.0 U	2.0 U	2.0 U	11 U
beta-BHC	2.1 U	2.0 U	2.0 U	2.0 U	11 U
delta-BHC	2.1 U	2.0 U	2.0 U	2.0 U	11 U
gamma-BHC (lindane)	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Chlordane (technical)	21 U	20 U	20 U	20 U	110 U
Chlorobenzilate	40 U	39 U	39 U	39 U	210 U
4,4-DDD	2.1 U	2.0 U	2.0 U	2.0 U	11 U
4,4-DDE	2.1 U	2.0 U	2.0 U	2.0 U	11 U
4,4-DDT	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Diallate	40 U	39 U	39 U	39 U	210 U
Dieldrin	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Endosulfan I	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Endosulfan II	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Endosulfan sulfate	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Endrin	2.1 U	2.0 U	2.0 U	2.0 U	11 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-7-45	MR-SD-7-150	MR-SD-7-280	MR-SD-8-57	MR-SD-9-51
Date Collected	November 3, 2000			October 27, 2000	
Organochlorine Pesticides (µg/kg) (Continued)					
Endrin aldehyde	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Heptachlor	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Heptachlor epoxide	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Isodrin	4.0 U	3.9 U	3.9 U	3.9 U	21 U
Kepone	40 U	39 U	39 U	39 U	210 U
Methoxychlor	4.0 U	3.9 U	3.9 U	3.9 U	21 U
Toxaphene	81 U	79 U	80 U	79 U	420 U
Polychlorinated Biphenyls (PCB) (µg/kg)					
Aroclor 1016	40 U	39 U	39 U	39 U	42 U
Aroclor 1221	40 U	39 U	39 U	39 U	42 U
Aroclor 1232	40 U	39 U	39 U	39 U	42 U
Aroclor 1242	40 U	39 U	39 U	39 U	42 U
Aroclor 1248	40 U	20 J	39 U	39 U	42 U
Aroclor 1254	40 U	39 U	39 U	39 U	42 U
Aroclor 1260	40 U	39 U	39 U	39 U	42 U
Organochlorine Herbicides (µg/kg)					
2,4-D	97 U	94 U	95 U	94 U	100 U
2,4,5-TP (Silvex)	24 U	24 U	24 U	24 U	25 U
2,4,5-T	24 U	24 U	24 U	24 U	25 U
Organophosphorus Pesticides (µg/kg)					
Dimethoate	40 U	39 U	39 U	39 U	42 U
Disulfoton	40 U	39 U	39 U	39 U	42 U
Famphur	40 U	39 U	39 U	39 U	42 U
Methyl parathion	40 U	39 U	39 U	39 U	42 U
Phorate	40 U	39 U	39 U	39 U	42 U
Tetraethyldithiopyrophosphate	40 U	39 U	39 U	39 U	42 U
Thionazin	40 U	39 U	39 U	39 U	42 U
o,o,o-Triethylphosphorothioate	40 U	39 U	39 U	39 U	42 U
General Chemistry (milligram per kilogram)					
Total organic carbon	780	120 U	120 U	120 U	3,700

0 4

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Notes:

J	=	The result was estimated for quality control reasons.
U	=	The analyte was not detected; the numerical value is the sample reporting limit.
UJ	=	The analyte was not detected; the sample reporting limit is estimated for quality control reasons.

[a] Field duplicate of sample MR-SD-3-99.
[b] Field duplicate of sample MR-SD-6-90.

Pop

Chain of Custody Record

Quanterra

QUA-4124 0797

Client: Tetra Tech EMI	Project Manager: Lisa Graczyk	Date: 11/2/00	Chain of Custody Number: 42771
Address: 200 E. Randolph	Telephone Number (Area Code)/Fax Number: 312/856-8700	Lab Number: 330/996-7290	Page ____ of ____
City: Chicago; State: IL; Zip Code: 60601	Site Contact: Kirit Bhatt; Lab Contact: Jeff Smith		
Project Name	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC's	SVOC's	PEST (8081A+8011A)	Herbicides	PCB's, TOC	Grain size	Total solids	# of jars	Special Instructions/ Conditions of Receipt
MR-SD-Pop-90	11/2/00	11:00		X		X						X							4	3 Encore, 1 2oz
MR-SD-Pop-90	11/2/00	11:00		X		X							X	X	X	X			2	2x16 oz
MR-SD-Pop-90	11/2/00	11:00		X		X											X		1	1x16 oz
MR-SD-Pop-90	11/2/00	11:00		X		X												X	1	1 plastic
Trip Blank																				
Temp Blank																				

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 11/2/00	Time: FED EX	1. Received By: [signature]	Date: 11/3/00	Time: 905
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K030169 004
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 11/03/00
Work Order: DPAKE1AL Date Extracted:11/13/00
Dilution factor: 1.14 Date Analyzed: 11/13/00
Moisture %:20

QC Batch: 0319199

Client Sample Id: MR-SD-POP-90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	4.1	J B
75-05-8	Acetonitrile	140	U
107-02-8	Acrolein	140	U
107-13-1	Acrylonitrile	140	U
107-05-1	Allyl chloride	14	U
71-43-2	Benzene	7.1	U
75-27-4	Bromodichloromethane	7.1	U
75-25-2	Bromoform	7.1	U
74-83-9	Bromomethane	14	U
78-93-3	2-Butanone (MEK)	29	U
75-15-0	Carbon disulfide	7.1	U
56-23-5	Carbon tetrachloride	7.1	U
108-90-7	Chlorobenzene	7.1	U
75-00-3	Chloroethane	14	U
67-66-3	Chloroform	7.1	U
74-87-3	Chloromethane	14	U
126-99-8	Chloroprene	7.1	U
124-48-1	Dibromochloromethane	7.1	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
106-93-4	1,2-Dibromoethane (EDB)	7.1	U
74-95-3	Dibromomethane	7.1	U
110-57-6	trans-1,4-Dichloro-2-butene	7.1	U
75-71-8	Dichlorodifluoromethane	14	U
75-34-3	1,1-Dichloroethane	7.1	U
107-06-2	1,2-Dichloroethane	7.1	U
75-35-4	1,1-Dichloroethene	7.1	U
156-60-5	trans-1,2-Dichloroethene	3.6	U
78-87-5	1,2-Dichloropropane	7.1	U

FORM I

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID: A0K030169 004
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g
Work Order: DPAKE1AD
Dilution factor: 1
Moisture %: 20

Date Received: 11/03/00
Date Extracted: 11/04/00
Date Analyzed: 11/27/00

QC Batch: 0309094

Client Sample Id: MR-SD-POP-90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	410	U
208-96-8	Acenaphthylene	410	U
98-86-2	Acetophenone	410	U
53-96-3	2-Acetylaminofluorene	4100	U
92-67-1	4-Aminobiphenyl	2000	U
62-53-3	Aniline	410	U
120-12-7	Anthracene	410	U
56-55-3	Benzo(a)anthracene	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
65-85-0	Benzoic acid	2000	U
191-24-2	Benzo(ghi)perylene	410	U
50-32-8	Benzo(a)pyrene	410	U
100-51-6	Benzyl alcohol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
111-44-4	bis(2-Chloroethyl) ether	410	U
108-60-1	bis(2-Chloro-1-methylethyl)	410	U
117-81-7	bis(2-Ethylhexyl) phthalate	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
85-68-7	Butyl benzyl phthalate	410	U
106-47-8	4-Chloroaniline	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-58-7	2-Chloronaphthalene	410	U
95-57-8	2-Chlorophenol	410	U
7005-72-3	4-Chlorophenyl phenyl ether	410	U
218-01-9	Chrysene	410	U
2303-16-4	Diallate	830	U
53-70-3	Dibenz(a,h)anthracene	410	U

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID: A0K030169 004
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 11/03/00
Work Order: DPAKE1AD Date Extracted: 11/04/00
Dilution factor: 1 Date Analyzed: 11/27/00
Moisture %: 20

QC Batch: 0309094

Client Sample Id: MR-SD-POP-90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
132-64-9	Dibenzofuran	410	U
84-74-2	Di-n-butyl phthalate	410	U
95-50-1	1,2-Dichlorobenzene	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
120-83-2	2,4-Dichlorophenol	410	U
87-65-0	2,6-Dichlorophenol	410	U
84-66-2	Diethyl phthalate	410	U
297-97-2	Thionazin	2000	U
60-51-5	Dimethoate	830	U
60-11-7	p-Dimethylaminoazobenzene	830	U
57-97-6	7,12-Dimethylbenz(a)anthrace	830	U
119-93-7	3,3'-Dimethylbenzidine	2000	U
105-67-9	2,4-Dimethylphenol	410	U
131-11-3	Dimethyl phthalate	410	U
117-84-0	Di-n-octyl phthalate	410	U
99-65-0	1,3-Dinitrobenzene	410	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	830	U
122-39-4	Diphenylamine	410	U
298-04-4	Disulfoton	2000	U
62-50-0	Ethyl methanesulfonate	410	U
52-85-7	Famphur	4100	U
206-44-0	Fluoranthene	410	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:A0K030169 004

Sample WT/Vol: 30.15 / g
Work Order: DPAKE1AE
Dilution factor: 1
Moisture %:20

Date Received: 11/03/00
Date Extracted:11/04/00
Date Analyzed: 11/09/00

QC Batch: 0309092

Client Sample Id: MR-SD-POP-90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.1	U
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
57-74-9	Chlordane (technical)	21	U
510-15-6	Chlorobenzilate	41	U
72-54-8	4,4'-DDD	2.1	U
72-55-9	4,4'-DDE	2.1	U
50-29-3	4,4'-DDT	2.1	U
2303-16-4	Diallate	41	U
60-57-1	Dieldrin	2.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	2.1	U
1031-07-8	Endosulfan sulfate	2.1	U
72-20-8	Endrin	2.1	U
7421-93-4	Endrin aldehyde	2.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
465-73-6	Isodrin	4.1	U
143-50-0	Kepone	41	U
72-43-5	Methoxychlor	4.1	U
8001-35-2	Toxaphene	84	U

[redacted]

Chain of Custody Record

S-2

Quanterra

QUA-4124 0797

Client: Tetra Tech EMI	Project Manager: Lisa Graczyk	Date: 11/1/00	Chain of Custody Number: 42816
Address: 200 E Randolph	Telephone Number (Area Code)/Fax Number: 312/856-8700	Lab Number: 330/966-7290	Page 1 of 1
City: Chicago; State: IL; Zip Code: 60601	Site Contact: Kirit Bhatt; Lab Contact: Jeff Smith		
Project Name: Mississippi River	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC's	SVOC's	PEST (8081A+8141A)	Herbicides	PCB's, TOC	Grain size	Total solids	# of jars	Special Instructions/ Conditions of Receipt
MR-SD-2-50	11/1/00	11:10		X		X						X							4	3 Encore, 1 2 oz
MR-SD-2-50	11/1/00	11:15		X		X							X	X	X	X			2	2 x 16 oz
MR-SD-2-50	11/1/00	11:15		X		X											X		1	1 x 16 oz
MR-SD-2-50	11/1/00	11:15		X		X												X	1	1 plastic
MR-SD-2-150	11/1/00	11:35		X		X						X							4	3 Encore, 1 2 oz
MR-SD-2-150	11/1/00	11:40		X		X							X	X	X	X			2	2 x 16 oz
MR-SD-2-150	11/1/00	11:40		X		X											X		1	1 x 16 oz
MR-SD-2-150	11/1/00	11:35		X		X												X	1	1 plastic
MR-SD-2-330	11/1/00	12:00		X		X						X							4	3 Encore 1 2 oz
MR-SD-2-330	11/1/00	12:10		X		X							X	X	X	X			2	2 x 16 oz
MR-SD-2-330	11/1/00	12:00		X		X											X		1	1 x 16 oz
MR-SD-2-330	11/1/00	12:00		X		X												X	1	1 plastic

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	11/1/00	FEDEX	1. Received By: [signature]	11/2/00	920
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

[redacted]

Chain of Custody Record

S-1

Quanterra

14

QUA-4124 0797

Client	Project Manager	Date	Chain of Custody Number
TETRA TECH EM INC.	LISA GRACZYK	11/1/00	42815
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
200 E. RANDOLPH DR. SUIT 4700	(312) 856-~~7800~~ 8700.	(330) 966-7290	Page 1 of 2

City	State	Zip Code	Site Contact	Lab Contact
CHICAGO	IL	60601	KIRIT BHATT	JEFF SMITH

Project Name

Carrier/Waybill Number

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC	ORGANOPEST	ORGANOPHO PEST	HERBICIDES	PCBs	TOT. ORG. CARBON	Gelatin size	Total solids	SVOCs	Special Instructions/ Conditions of Receipt
MR-SD-1-50	11/1/00	2:25PM		X								X									1X 2 oz Jar.
MR-SD-1-50	"	"		X								X									3 ENCORES
MR-SD-1-50	"	"		X									X	X	X	X	X			X	2 X 16oz Jars
MR-SD-1-50	"	"		X														X			1 X 16 oz Jar
MR-SD-1-50	"	"		X															X		1 X PLASTIC JAR
MR-SD-1-150	"	"		X								X									1X 2oz Jar
MR-SD-1-150	"	"		X								X									3 ENCORES
MR-SD-1-150	"	"		X									X	X	X	X	X			X	2 X 16 oz Jars.
MR-SD-1-150	"	"		X														X			1 X 16 oz Jar.
MR-SD-1-150	"	"		X															X		1X PLASTIC JAR.
MR-SD-1-300	" KB	2:50PM		X								X									1X 2oz Jar.
MR-SD-1-300	" KB	2:50PM		X								X									3 Encores.

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	11/1/00	Fedex 5:30 PM.	1. Received By: [signature]	11/2/00	920
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

220

Chain of Custody Record

S-1.

Quanterra

15

QUA-4124 0797

Client	Project Manager	Date	Chain of Custody Number
TETRA TECH EM INC.	LISA GRACZYK	11/1/00	42768
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
200 E. RANDOLPH DR. SUIT 4700	(312) 858-8700	(330)996-7290	

City	State	Zip Code	Site Contact	Lab Contact
CHICAGO	IL	60601	KIRIT BHATT	JEFF SMITH

Project Name

Carrier/Waybill Number

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		VOC	ORGANIC PEST	ORGANIC PEST	HERBICIDES	PCBS	TOTAL ORG. CARBON	GRAIN SIZE	TOTAL SOLIDS	SVOC				Special Instructions/ Conditions of Receipt
MR-SD-1-300	11/1/00	2:50PM		X											X	X	X	X	X			X				2 X 16 oz JARS
MR-SD-1-300	"	"		X																X						1 X 16 oz JARS.
MR-SD-1-300	"	"		X																	X					1 PLASTIC JAR.
TRIP BLANK																										
TEMP. BLANK.																										

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By			1. Received By	11/2/00	
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

023

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K020150 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 11/02/00
Work Order: DN76Q1AM Date Extracted:11/07/00
Dilution factor: 0.98 Date Analyzed: 11/07/00
Moisture %:17

QC Batch: 0313219

Client Sample Id: MR-SD-2-50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	5.4	J B
75-05-8	Acetonitrile	120	U
107-02-8	Acrolein	120	U
107-13-1	Acrylonitrile	120	U
107-05-1	Allyl chloride	12	U
71-43-2	Benzene	5.9	U
75-27-4	Bromodichloromethane	5.9	U
75-25-2	Bromoform	5.9	U
74-83-9	Bromomethane	12	U
78-93-3	2-Butanone (MEK)	24	U
75-15-0	Carbon disulfide	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
108-90-7	Chlorobenzene	6.5	
75-00-3	Chloroethane	12	U
67-66-3	Chloroform	5.9	U
74-87-3	Chloromethane	12	U
126-99-8	Chloroprene	5.9	U
124-48-1	Dibromochloromethane	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
106-93-4	1,2-Dibromoethane (EDB)	5.9	U
74-95-3	Dibromomethane	5.9	U
110-57-6	trans-1,4-Dichloro-2-butene	5.9	U
75-71-8	Dichlorodifluoromethane	12	U
75-34-3	1,1-Dichloroethane	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
156-60-5	trans-1,2-Dichloroethene	3.0	U
78-87-5	1,2-Dichloropropane	5.9	U

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID: A0K020150 002
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 11/02/00
Work Order: DN7671AM Date Extracted: 11/03/00
Dilution factor: 1 Date Analyzed: 11/11/00
Moisture %: 17

QC Batch: 0318190

Client Sample Id: MR-SD-2-150

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	1300	B
75-05-8	Acetonitrile	6000	U
107-02-8	Acrolein	6000	U
107-13-1	Acrylonitrile	6000	U
71-43-2	Benzene	55	J
75-27-4	Bromodichloromethane	300	U
75-25-2	Bromoform	300	U
74-83-9	Bromomethane	600	U
75-15-0	Carbon disulfide	300	U
56-23-5	Carbon tetrachloride	300	U
108-90-7	Chlorobenzene	390	
126-99-8	Chloroprene	300	U
124-48-1	Dibromochloromethane	300	U
96-12-8	1,2-Dibromo-3-chloropropane	600	U
75-00-3	Chloroethane	600	U
67-66-3	Chloroform	300	U
74-87-3	Chloromethane	600	U
107-05-1	Allyl chloride	600	U
74-95-3	Dibromomethane	300	U
110-57-6	trans-1,4-Dichloro-2-butene	300	U
75-71-8	Dichlorodifluoromethane	600	U
75-34-3	1,1-Dichloroethane	300	U
107-06-2	1,2-Dichloroethane	300	U
75-35-4	1,1-Dichloroethene	300	U
156-60-5	trans-1,2-Dichloroethene	150	U
78-87-5	1,2-Dichloropropane	300	U
10061-01-5	cis-1,3-Dichloropropene	300	U
10061-02-6	trans-1,3-Dichloropropene	300	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K020150 004
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 11/02/00
Work Order: DN77F1AM Date Extracted:11/07/00
Dilution factor: 0.92 Date Analyzed: 11/07/00
Moisture %:17

QC Batch: 0313219

Client Sample Id: MR-SD-1-50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	22	U
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
107-05-1	Allyl chloride	11	U
71-43-2	Benzene	5.5	U
75-27-4	Bromodichloromethane	5.5	U
75-25-2	Bromoform	5.5	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone (MEK)	22	U
75-15-0	Carbon disulfide	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
108-90-7	Chlorobenzene	5.5	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	5.5	U
74-87-3	Chloromethane	11	U
126-99-8	Chloroprene	5.5	U
124-48-1	Dibromochloromethane	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
106-93-4	1,2-Dibromoethane (EDB)	5.5	U
74-95-3	Dibromomethane	5.5	U
110-57-6	trans-1,4-Dichloro-2-butene	5.5	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
156-60-5	trans-1,2-Dichloroethene	2.8	U
78-87-5	1,2-Dichloropropane	5.5	U

FORM I

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K020150 005
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 11/02/00
Work Order: DN77H1AM Date Extracted:11/07/00
Dilution factor: 0.91 Date Analyzed: 11/07/00
Moisture %:16

QC Batch: 0313219

Client Sample Id: MR-SD-1-150

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	22	U
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
107-05-1	Allyl chloride	11	U
71-43-2	Benzene	5.4	U
75-27-4	Bromodichloromethane	5.4	U
75-25-2	Bromoform	5.4	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone (MEK)	22	U
75-15-0	Carbon disulfide	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
108-90-7	Chlorobenzene	5.4	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	5.4	U
74-87-3	Chloromethane	11	U
126-99-8	Chloroprene	5.4	U
124-48-1	Dibromochloromethane	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
106-93-4	1,2-Dibromoethane (EDB)	5.4	U
74-95-3	Dibromomethane	5.4	U
110-57-6	trans-1,4-Dichloro-2-butene	5.4	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
156-60-5	trans-1,2-Dichloroethene	2.7	U
78-87-5	1,2-Dichloropropane	5.4	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K020150 006
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 11/02/00
Work Order: DN77K1AK Date Extracted:11/07/00
Dilution factor: 1.09 Date Analyzed: 11/07/00
Moisture %:15

QC Batch: 0313219

Client Sample Id: MR-SD-1-300

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	26	U
75-05-8	Acetonitrile	130	U
107-02-8	Acrolein	130	U
107-13-1	Acrylonitrile	130	U
107-05-1	Allyl chloride	13	U
71-43-2	Benzene	6.4	U
75-27-4	Bromodichloromethane	6.4	U
75-25-2	Bromoform	6.4	U
74-83-9	Bromomethane	13	U
78-93-3	2-Butanone (MEK)	26	U
75-15-0	Carbon disulfide	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
108-90-7	Chlorobenzene	6.4	U
75-00-3	Chloroethane	13	U
67-66-3	Chloroform	6.4	U
74-87-3	Chloromethane	13	U
126-99-8	Chloroprene	6.4	U
124-48-1	Dibromochloromethane	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
106-93-4	1,2-Dibromoethane (EDB)	6.4	U
74-95-3	Dibromomethane	6.4	U
110-57-6	trans-1,4-Dichloro-2-butene	6.4	U
75-71-8	Dichlorodifluoromethane	13	U
75-34-3	1,1-Dichloroethane	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
156-60-5	trans-1,2-Dichloroethene	3.2	U
78-87-5	1,2-Dichloropropane	6.4	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K020150 004
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g Date Received: 11/02/00
Work Order: DN77F1AC Date Extracted:11/02/00
Dilution factor: 1 Date Analyzed: 11/20/00
Moisture %:17

QC Batch: 0307324

Client Sample Id: MR-SD-1-50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	400	U
208-96-8	Acenaphthylene	400	U
98-86-2	Acetophenone	400	U
53-96-3	2-Acetylaminofluorene	4000	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	400	U
120-12-7	Anthracene	400	U
56-55-3	Benzo(a)anthracene	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
65-85-0	Benzoic acid	1900	U
191-24-2	Benzo(ghi)perylene	400	U
50-32-8	Benzo(a)pyrene	400	U
100-51-6	Benzyl alcohol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
111-44-4	bis(2-Chloroethyl) ether	400	U
108-60-1	bis(2-Chloro-1-methylethyl)	400	U
117-81-7	bis(2-Ethylhexyl) phthalate	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
85-68-7	Butyl benzyl phthalate	400	U
106-47-8	4-Chloroaniline	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-58-7	2-Chloronaphthalene	400	U
95-57-8	2-Chlorophenol	400	U
7005-72-3	4-Chlorophenyl phenyl ether	400	U
218-01-9	Chrysene	400	U
2303-16-4	Diallate	790	U
53-70-3	Dibenz(a,h)anthracene	400	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K020150 004
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g Date Received: 11/02/00
Work Order: DN77F1AC Date Extracted:11/02/00
Dilution factor: 1 Date Analyzed: 11/20/00
Moisture %:17

QC Batch: 0307324

Client Sample Id: MR-SD-1-50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
132-64-9	Dibenzofuran	400	U
84-74-2	Di-n-butyl phthalate	400	U
95-50-1	1,2-Dichlorobenzene	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	400	U
87-65-0	2,6-Dichlorophenol	400	U
84-66-2	Diethyl phthalate	400	U
297-97-2	Thionazin	1900	U
60-51-5	Dimethoate	790	U
60-11-7	p-Dimethylaminoazobenzene	790	U
57-97-6	7,12-Dimethylbenz(a)anthrace	790	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	400	U
131-11-3	Dimethyl phthalate	400	U
117-84-0	Di-n-octyl phthalate	400	U
99-65-0	1,3-Dinitrobenzene	400	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	790	U
122-39-4	Diphenylamine	400	U
298-04-4	Disulfoton	1900	U
62-50-0	Ethyl methanesulfonate	400	U
52-85-7	Famphur	4000	U
206-44-0	Fluoranthene	400	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K020150 005
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 11/02/00
Work Order: DN77H1AC Date Extracted:11/02/00
Dilution factor: 1 Date Analyzed: 11/20/00
Moisture %:16

QC Batch: 0307324

Client Sample Id: MR-SD-1-150

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	390	U
208-96-8	Acenaphthylene	390	U
98-86-2	Acetophenone	390	U
53-96-3	2-Acetylaminofluorene	3900	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	390	U
120-12-7	Anthracene	390	U
56-55-3	Benzo(a)anthracene	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
65-85-0	Benzoic acid	1900	U
191-24-2	Benzo(ghi)perylene	390	U
50-32-8	Benzo(a)pyrene	390	U
100-51-6	Benzyl alcohol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
111-44-4	bis(2-Chloroethyl) ether	390	U
108-60-1	bis(2-Chloro-1-methylethyl)	390	U
117-81-7	bis(2-Ethylhexyl) phthalate	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
85-68-7	Butyl benzyl phthalate	390	U
106-47-8	4-Chloroaniline	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-58-7	2-Chloronaphthalene	390	U
95-57-8	2-Chlorophenol	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
218-01-9	Chrysene	390	U
2303-16-4	Diallate	780	U
53-70-3	Dibenz(a,h)anthracene	390	U

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID: A0K020150 005
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 11/02/00
Work Order: DN77H1AC Date Extracted: 11/02/00
Dilution factor: 1 Date Analyzed: 11/20/00
Moisture %: 16

QC Batch: 0307324

Client Sample Id: MR-SD-1-150

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
132-64-9	Dibenzofuran	390	U
84-74-2	Di-n-butyl phthalate	390	U
95-50-1	1,2-Dichlorobenzene	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	390	U
87-65-0	2,6-Dichlorophenol	390	U
84-66-2	Diethyl phthalate	390	U
297-97-2	Thionazin	1900	U
60-51-5	Dimethoate	780	U
60-11-7	p-Dimethylaminoazobenzene	780	U
57-97-6	7,12-Dimethylbenz(a)anthrace	780	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	390	U
131-11-3	Dimethyl phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
99-65-0	1,3-Dinitrobenzene	390	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	780	U
122-39-4	Diphenylamine	390	U
298-04-4	Disulfoton	1900	U
62-50-0	Ethyl methanesulfonate	390	U
52-85-7	Famphur	3900	U
206-44-0	Fluoranthene	390	U

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID: A0K020150 006
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.14 / g
Work Order: DN77K1AC
Dilution factor: 1
Moisture %: 15

Date Received: 11/02/00
Date Extracted: 11/02/00
Date Analyzed: 11/20/00

QC Batch: 0307324

Client Sample Id: MR-SD-1-300

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	390	U
208-96-8	Acenaphthylene	390	U
98-86-2	Acetophenone	390	U
53-96-3	2-Acetylaminofluorene	3900	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	390	U
120-12-7	Anthracene	390	U
56-55-3	Benzo(a)anthracene	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
65-85-0	Benzoic acid	1900	U
191-24-2	Benzo(ghi)perylene	390	U
50-32-8	Benzo(a)pyrene	390	U
100-51-6	Benzyl alcohol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
111-44-4	bis(2-Chloroethyl) ether	390	U
108-60-1	bis(2-Chloro-1-methylethyl)	390	U
117-81-7	bis(2-Ethylhexyl) phthalate	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
85-68-7	Butyl benzyl phthalate	390	U
106-47-8	4-Chloroaniline	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-58-7	2-Chloronaphthalene	390	U
95-57-8	2-Chlorophenol	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
218-01-9	Chrysene	390	U
2303-16-4	Diallate	780	U
53-70-3	Dibenz(a,h)anthracene	390	U

FORM I

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K020150 006
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.14 / g Date Received: 11/02/00
Work Order: DN77K1AC Date Extracted:11/02/00
Dilution factor: 1 Date Analyzed: 11/20/00
Moisture %:15

QC Batch: 0307324

Client Sample Id: MR-SD-1-300

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
132-64-9	Dibenzofuran	390	U
84-74-2	Di-n-butyl phthalate	390	U
95-50-1	1,2-Dichlorobenzene	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	390	U
87-65-0	2,6-Dichlorophenol	390	U
84-66-2	Diethyl phthalate	390	U
297-97-2	Thionazin	1900	U
60-51-5	Dimethoate	780	U
60-11-7	p-Dimethylaminoazobenzene	780	U
57-97-6	7,12-Dimethylbenz(a)anthrace	780	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	390	U
131-11-3	Dimethyl phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
99-65-0	1,3-Dinitrobenzene	390	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	780	U
122-39-4	Diphenylamine	390	U
298-04-4	Disulfoton	1900	U
62-50-0	Ethyl methanesulfonate	390	U
52-85-7	Famphur	3900	U
206-44-0	Fluoranthene	390	U

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID: A0K020150 004

Sample WT/Vol: 30.1 / g
Work Order: DN77F1AD
Dilution factor: 1
Moisture %: 17

Date Received: 11/02/00
Date Extracted: 11/03/00
Date Analyzed: 11/09/00

QC Batch: 0307311

Client Sample Id: MR-SD-1-50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.0	U
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
57-74-9	Chlordane (technical)	20	U
510-15-6	Chlorobenzilate	40	U
72-54-8	4,4'-DDD	2.0	U
72-55-9	4,4'-DDE	2.0	U
50-29-3	4,4'-DDT	2.0	U
2303-16-4	Diallate	40	U
60-57-1	Dieldrin	2.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	2.0	U
1031-07-8	Endosulfan sulfate	2.0	U
72-20-8	Endrin	2.0	U
7421-93-4	Endrin aldehyde	2.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
465-73-6	Isodrin	4.0	U
143-50-0	Kepone	40	U
72-43-5	Methoxychlor	4.0	U
8001-35-2	Toxaphene	80	U

FORM I

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID: A0K020150 005

Sample WT/Vol: 30.01 / g
Work Order: DN77H1AD
Dilution factor: 1
Moisture %: 16

Date Received: 11/02/00
Date Extracted: 11/03/00
Date Analyzed: 11/09/00

QC Batch: 0307311

Client Sample Id: MR-SD-1-150

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.0	U
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
57-74-9	Chlordane (technical)	20	U
510-15-6	Chlorobenzilate	39	U
72-54-8	4,4'-DDD	2.0	U
72-55-9	4,4'-DDE	2.0	U
50-29-3	4,4'-DDT	2.0	U
2303-16-4	Diallate	39	U
60-57-1	Dieldrin	2.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	2.0	U
1031-07-8	Endosulfan sulfate	2.0	U
72-20-8	Endrin	2.0	U
7421-93-4	Endrin aldehyde	2.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
465-73-6	Isodrin	3.9	U
143-50-0	Kepone	39	U
72-43-5	Methoxychlor	3.9	U
8001-35-2	Toxaphene	80	U

FORM I

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:A0K020150 006

Sample WT/Vol: 30.05 / g
Work Order: DN77K1AD
Dilution factor: 1
Moisture %:15

Date Received: 11/02/00
Date Extracted:11/03/00
Date Analyzed: 11/09/00

QC Batch: 0307311

Client Sample Id: MR-SD-1-300

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.0	U
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
57-74-9	Chlordane (technical)	20	U
510-15-6	Chlorobenzilate	39	U
72-54-8	4,4'-DDD	2.0	U
72-55-9	4,4'-DDE	2.0	U
50-29-3	4,4'-DDT	2.0	U
2303-16-4	Diallate	39	U
60-57-1	Dieldrin	2.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	2.0	U
1031-07-8	Endosulfan sulfate	2.0	U
72-20-8	Endrin	2.0	U
7421-93-4	Endrin aldehyde	2.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
465-73-6	Isodrin	3.9	U
143-50-0	Kepone	39	U
72-43-5	Methoxychlor	3.9	U
8001-35-2	Toxaphene	79	U

FORM I

[redacted]

N.B SITE CONTACT
KIRIT BHATT, TEL. 816-506-4701.

Chain of Custody Record

Quanterra

QUA-4124 0797

Client: TETRA TECH EM INC.	Project Manager: LISA GRACZYK	Date: 10/24/2000	Chain of Custody Number: 48637
Address: 200 EAST RANDOLPH DR. SUIT 4700	Telephone Number (Area Code)/Fax Number: (312) 856-8700	Lab Number: (330) 966-7290	Page 1 of 1
City: CHICAGO, ~~IL 6~~ KS; State: IL; Zip Code: 60601	Site Contact: KIRIT BHATT; Lab Contact: JEFF SMITH		
Project Name: MISSISSIPPI RIVER, ST. LOUIS	Carrier/Waybill Number: FEDEX		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC	ORGANO PEST	ORGANO PHOS PEST	PCBs	HERBICIDES	TOT. ORG. CARBON	GRAIN SIZE	TOTAL SOLIDS	Special Instructions/ Conditions of Receipt
SEDIMENT PDA-5-R 60'	10/24/00	2:40PM		X		X						X								1 X 2 oz Jar.
" PDA-5-R 60'	10/24/00	2:45PM		X		X							X	X	X	X	X			2X16 oz Jars.
" PDA-5-R 60'	10/24/00	2:45PM		X														X		1X16 oz Jar.
" PDA-5-R 60'	10/24/00	2:45PM		X															X	1 PLASTIC CUP WITH SCREW TOP
SEDIMENT ENCORE PDA-5-R-1	10/24/00	2:55		X								X								3 ENCORES - SAME SAMPLE
" " PDA-5-R-2	10/24/00	2:55		X								X								
" PDA-5-R-3	10/24/00	2:55		X								X								

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☑ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: KHB	10/24/00	6:45 TO FEDEX	1. Received By: Anne Sanders	10-25-00	900
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

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038

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID: A0J250253 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.68 / g Date Received: 10/25/00
Work Order: DNQ631AK Date Extracted: 10/26/00
Dilution factor: 0.88 Date Analyzed: 11/04/00
Moisture %: 16

QC Batch: 0307533

Client Sample Id: SEDIMENT PDA-5-R 60'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	3300	B
75-05-8	Acetonitrile	5200	U
107-02-8	Acrolein	5200	U
107-13-1	Acrylonitrile	5200	U
71-43-2	Benzene	100	J
75-27-4	Bromodichloromethane	260	U
75-25-2	Bromoform	260	U
74-83-9	Bromomethane	520	U
75-15-0	Carbon disulfide	260	U
56-23-5	Carbon tetrachloride	260	U
108-90-7	Chlorobenzene	450	
126-99-8	Chloroprene	260	U
124-48-1	Dibromochloromethane	260	U
96-12-8	1,2-Dibromo-3-chloropropane	520	U
75-00-3	Chloroethane	520	U
67-66-3	Chloroform	260	U
74-87-3	Chloromethane	520	U
107-05-1	Allyl chloride	520	U
74-95-3	Dibromomethane	260	U
110-57-6	trans-1,4-Dichloro-2-butene	260	U
75-71-8	Dichlorodifluoromethane	520	U
75-34-3	1,1-Dichloroethane	260	U
107-06-2	1,2-Dichloroethane	110	J
75-35-4	1,1-Dichloroethene	260	U
156-60-5	trans-1,2-Dichloroethene	130	U
78-87-5	1,2-Dichloropropane	260	U
10061-01-5	cis-1,3-Dichloropropene	260	U
10061-02-6	trans-1,3-Dichloropropene	260	U

FORM I

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0L050115 002
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g Date Received: 10/25/00
Work Order: DQTEL1AC Date Extracted:12/05/00
Dilution factor: 2 Date Analyzed: 12/08/00
Moisture %:16

QC Batch: 0340220

Client Sample Id: SEDIMENT PDA-5-R 60'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	780	U
208-96-8	Acenaphthylene	780	U
98-86-2	Acetophenone	780	U
53-96-3	2-Acetylaminofluorene	7800	U
92-67-1	4-Aminobiphenyl	3800	U
62-53-3	**Aniline**	**3900**	
120-12-7	Anthracene	780	U
56-55-3	Benzo(a)anthracene	780	U
205-99-2	Benzo(b)fluoranthene	780	U
207-08-9	Benzo(k)fluoranthene	780	U
65-85-0	Benzoic acid	3800	U
191-24-2	Benzo(ghi)perylene	780	U
50-32-8	Benzo(a)pyrene	780	U
100-51-6	Benzyl alcohol	780	U
111-91-1	bis(2-Chloroethoxy)methane	780	U
111-44-4	bis(2-Chloroethyl) ether	780	U
108-60-1	bis(2-Chloro-1-methylethyl)	780	U
117-81-7	bis(2-Ethylhexyl) phthalate	780	U
101-55-3	4-Bromophenyl phenyl ether	780	U
85-68-7	Butyl benzyl phthalate	780	U
106-47-8	**4-Chloroaniline**	**3300**	
59-50-7	4-Chloro-3-methylphenol	780	U
91-58-7	2-Chloronaphthalene	780	U
95-57-8	**2-Chlorophenol**	**400**	**J**
7005-72-3	4-Chlorophenyl phenyl ether	780	U
218-01-9	Chrysene	780	U
2303-16-4	Diallate	1600	U
53-70-3	Dibenz(a,h)anthracene	780	U

FORM I

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:A0J250253 001

Sample WT/Vol: 30.19 / g
Work Order: DNQ631AD
Dilution factor: 2
Moisture %:16

Date Received: 10/25/00
Date Extracted:10/26/00
Date Analyzed: 11/11/00

QC Batch: 0300119

Client Sample Id: SEDIMENT PDA-5-R 60'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	4.0	U
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	44	*** PG
58-89-9	gamma-BHC (Lindane)	4.0	U
57-74-9	Chlordane (technical)	40	U
510-15-6	Chlorobenzilate	21	J *** PG
72-54-8	4,4'-DDD	14	
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
2303-16-4	Diallate	78	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	4.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
76-44-8	Heptachlor	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
465-73-6	Isodrin	7.8	U
143-50-0	Kepone	78	U
72-43-5	Methoxychlor	7.8	U
8001-35-2	Toxaphene	160	U

Chain of Custody Record

Quanterra

QUA-4124 0797

Client: TETRA TECH EM INC	Project Manager: LISA GRACZYK	Date: 10/26/00	Chain of Custody Number: 42817
Address: 800 EAST RANDOLPH DR. SUIT 4700	Telephone Number (Area Code)/Fax Number: (312) 856-8700	Lab Number: (330)966-7290	Page 1 of 1
City: CHICAGO; State: IL; Zip Code: 60601	Site Contact: KIRIT BHATT	Lab Contact: JEFF SMITH	
Project Name: MISSISSIPI RIVER	Carrier/Waybill Number: FEDEX		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): VOC	ORGANOCHL PEST	ORGANO PHOS PEST	PCB	HERBICIDES	TOT. ORG. CARBON	4.9 AIN SRE	TOTAL SOLIDS	Special Instructions/ Conditions of Receipt
PDA-2 60' (soft bottom)	10/25/00	10:00am		X								X								1X2oz JAR.
PDA-2 60' "	10/25/00	10:00am		X									X	X	X	X	X			2X16 oz JARS.
PDA-2 60' "	10/25/00	10:00am		X														X		1X16 oz JAR
PDA-2 60' "	10/25/00	10:00am		X															X	1 PLASTIC CUP WITH SCREW TOP
PDA-8 60' (NORTH MOST LOCATION)	10/26/00	10:25am		X								X								1X 2oz JAR
PDA-8 60' " ENCORES	10/26/00	10:25am		X								X								3 ENCORES
PDA-8 60' "	10/26/00	10:25am		X									X	X	X	X	X			2X16 oz JARS
PDA-8 60' "	10/26/00	10:25am		X														X		1X16 oz JAR
PDA-8 60' "	10/26/00	10:25am		X															X	1 PLASTIC CUP WITH SCREW CAP
TRIP BLANK	10/26/00	—	X									X								N.B. OPEN SOFT BOTTOMS IN FUMEHOOD. MAY HAVE STRONG SMELL
TEMPERATURE BLANK.																				

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	10/26/00	6:45 PM	1. Received By: Anne Sanders	10-27-00	9:00 AM
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID: A0J280103 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 4 / g Date Received: 10/27/00
Work Order: DN06R1AC Date Extracted: 11/03/00
Dilution factor: 1 Date Analyzed: 11/06/00

QC Batch: 0310110

Client Sample Id: PDA-2 60' (SOFT BOTTOM)
Soil Extract Vol: 10 / mL Soil Aliquot Vol: 20 / uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	5800	B
75-05-8	Acetonitrile	22000	U
107-02-8	Acrolein	22000	U
107-13-1	Acrylonitrile	22000	U
71-43-2	Benzene	140	J
75-27-4	Bromodichloromethane	1100	U
75-25-2	Bromoform	1100	U
74-83-9	Bromomethane	2200	U
75-15-0	Carbon disulfide	1100	U
56-23-5	Carbon tetrachloride	1100	U
108-90-7	Chlorobenzene	10000	
126-99-8	Chloroprene	1100	U
124-48-1	Dibromochloromethane	1100	U
96-12-8	1,2-Dibromo-3-chloropropane	2200	U
75-00-3	Chloroethane	2200	U
67-66-3	Chloroform	1100	U
74-87-3	Chloromethane	2200	U
107-05-1	Allyl chloride	2200	U
74-95-3	Dibromomethane	1100	U
110-57-6	trans-1,4-Dichloro-2-butene	1100	U
75-71-8	Dichlorodifluoromethane	2200	U
75-34-3	1,1-Dichloroethane	1100	U
107-06-2	1,2-Dichloroethane	1100	U
75-35-4	1,1-Dichloroethene	1100	U
156-60-5	trans-1,2-Dichloroethene	550	U
78-87-5	1,2-Dichloropropane	1100	U
10061-01-5	cis-1,3-Dichloropropene	1100	U
10061-02-6	trans-1,3-Dichloropropene	1100	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0J280103 002
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 4.52 / g Date Received: 10/27/00
Work Order: DN06T1AK Date Extracted:10/28/00
Dilution factor: 1.11 Date Analyzed: 11/08/00
Moisture %:19
QC Batch: 0314181
Client Sample Id: PDA-8 60' (NORTH MOST LOCATION)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	1400	B
75-05-8	Acetonitrile	6800	U
107-02-8	Acrolein	6800	U
107-13-1	Acrylonitrile	6800	U
71-43-2	Benzene	110	J
75-27-4	Bromodichloromethane	340	U
75-25-2	Bromoform	340	U
74-83-9	Bromomethane	680	U
75-15-0	Carbon disulfide	340	U
56-23-5	Carbon tetrachloride	340	U
108-90-7	Chlorobenzene	700	
126-99-8	Chloroprene	340	U
124-48-1	Dibromochloromethane	340	U
96-12-8	1,2-Dibromo-3-chloropropane	680	U
75-00-3	Chloroethane	680	U
67-66-3	Chloroform	340	U
74-87-3	Chloromethane	680	U
107-05-1	Allyl chloride	680	U
74-95-3	Dibromomethane	340	U
110-57-6	trans-1,4-Dichloro-2-butene	340	U
75-71-8	Dichlorodifluoromethane	680	U
75-34-3	1,1-Dichloroethane	340	U
107-06-2	1,2-Dichloroethane	41	J
75-35-4	1,1-Dichloroethene	340	U
156-60-5	trans-1,2-Dichloroethene	170	U
78-87-5	1,2-Dichloropropane	340	U
10061-01-5	cis-1,3-Dichloropropene	340	U
10061-02-6	trans-1,3-Dichloropropene	340	U

FORM I

044

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0L050115 003
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g Date Received: 10/27/00
Work Order: DQTEM1AC Date Extracted:12/05/00
Dilution factor: 1 Date Analyzed: 12/08/00
Moisture %:43

QC Batch: 0340220

Client Sample Id: PDA-2 60' (SOFT BOTTOM)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	580	U
208-96-8	Acenaphthylene	580	U
98-86-2	Acetophenone	580	U
53-96-3	2-Acetylaminofluorene	5800	U
92-67-1	4-Aminobiphenyl	2800	U
62-53-3	Aniline	210	J
120-12-7	Anthracene	580	U
56-55-3	Benzo(a)anthracene	580	U
205-99-2	Benzo(b)fluoranthene	580	U
207-08-9	Benzo(k)fluoranthene	580	U
65-85-0	Benzoic acid	2800	U
191-24-2	Benzo(ghi)perylene	580	U
50-32-8	Benzo(a)pyrene	580	U
100-51-6	Benzyl alcohol	580	U
111-91-1	bis(2-Chloroethoxy)methane	580	U
111-44-4	bis(2-Chloroethyl) ether	580	U
108-60-1	bis(2-Chloro-1-methylethyl)	580	U
117-81-7	bis(2-Ethylhexyl) phthalate	580	U
101-55-3	4-Bromophenyl phenyl ether	580	U
85-68-7	Butyl benzyl phthalate	580	U
106-47-8	4-Chloroaniline	720	
59-50-7	4-Chloro-3-methylphenol	580	U
91-58-7	2-Chloronaphthalene	580	U
95-57-8	2-Chlorophenol	580	U
7005-72-3	4-Chlorophenyl phenyl ether	580	U
218-01-9	Chrysene	580	U
2303-16-4	Diallate	1200	U
53-70-3	Dibenz(a,h)anthracene	580	U

[redacted]

Chain of Custody Record

S-6

Quanterra

QUA-4124 0797

Client	Project Manager	Date	Chain of Custody Number
Tetra Tech EMI	Lisa Graczyk	11/3/00	42773
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
200 E. Randolph	312/856-8700	380/966-7290	
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Chicago / IL / 60601	Kirit Bhatt	Jeff Smith	
Project Name	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC's	SVOC's	PEST (8081A+8141A)	Herbicides	PCB	TOC	Grain size	Total solids	# of jars	Special Instructions/ Conditions of Receipt
MR-SD-6-25	11/3/00	11:50		X		X						X								4	3 Encore, 1 2oz
MR-SD-6-25		11:50		X		X							X	X	X	X				2	2x 16oz
MR-SD-6-25		11:50		X		X											X			1	1x 16oz
MR-SD-6-25		11:50		X		X												X		1	1 plastic
Trip Blank		—																			
MR-SD-6-~~98~~ 90		11:35		X		X						X								4	3 Encore, 1 2oz
MR-SD-6-~~98~~ 90		11:35		X		X							X	X	X	X				2	2x 16oz
MR-SD-6-~~98~~ 90		11:35		X		X											X			1	1x 16oz
MR-SD-6-90		11:35		X		X												X		1	1 plastic
Field Blank		—																			
Rinsate		12:00	X			X							X	X	X	X				6	6 x 1L Amber
Rinsate		12:00	X						X			X								4	4 x 40mL vials

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	11/3/00	FEDEX	1. [signature]	11-4-00	1035 AM
2.			2.		
3.			3.		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

Chain of Custody Record

5-5

Quanterra

QUA-4124 0797

Client	Project Manager	Date	Chain of Custody Number
Tetra Tech EMI	Lisa Graczyk	11/3/00	42774

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page ___ of ___
200 E. Randolph	312/856-8700	330/966-7290	

City	State	Zip Code	Site Contact	Lab Contact
Chicago	IL	60601	Kirit Bhatt	Jeff Smith

Project Name

Carrier/Waybill Number

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC's	SVOC's	PEST(8081A+8141A)	Herbicides	PCB, TOC	Grain size	Total Solids	# of jars	Special Instructions/ Conditions of Receipt
MR-SD-5-1	11/3/00	10:35		X		X						X							4	3 Encore, 1 2oz
MR-SD-5-1		10:35		X		X							X	X	X	X			2	2x16oz
MR-SD-5-1		10:35		X		X											X		1	1x16oz
MR-SD-5-1		10:35		X		X												X	1	1 plastic
MR-SD-5-315		11:15		X		X						X							4	3 Encore, 1 2oz
MR-SD-5-315		11:15		X		X							X	X	X	X			2	2x16oz
MR-SD-5-315		11:15		X		X											X		1	1x16oz
MR-SD-5-315		11:15		X		X												X	1	1 plastic
MR-SD-5-150		11:00		X		X						X							4	3 Encore, 1 2oz
MR-SD-5-150		11:00		X		X							X	X	X	X			2	2x16oz
MR-SD-5-150		11:00		X		X											X		1	1x16oz
MR-SD-5-150		11:00		X		X												X	1	1 plastic

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ___

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	11/3/00	FED EX	1. Received By: Anne Sanders	11-4-00	1035AM
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

15

047

Chain of Custody Record

S-7

Quanterra

QUA-4124 0797

Client: Tetra Tech EMI	Project Manager: Lisa Graczyk	Date: 11/3/00	Chain of Custody Number: 42772
Address: 200 E. Randolph	Telephone Number (Area Code)/Fax Number: 312/856-8700	Lab Number: 330/966-7290	Page ____ of ____
City: Chicago; State: IL; Zip Code: 60601	Site Contact: Kirit Bhatt; Lab Contact: Jeff Smith		
Project Name:	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC's	SVOC's	PEST (8081A+8141A)	Herbicides	PCB, TOC	Grain Size	Total Solids	# of jars	Special Instructions/ Conditions of Receipt
MR-SD-7-150	11/3/00	12:40		X		X						X							4	3 Encore, 1 2oz
MR-SD-7-150		12:40		X		X							X	X	X	X			2	2x16oz
MR-SD-7-150		12:40		X		X											X		1	1x16oz
MR-SD-7-150		12:40		X		X												X	1	1 plastic
MR-SD-7-280		12:55		X		X						X							4	3 Encore 1 2oz
MR-SD-7-280		12:55		X		X							X	X	X	X			2	2x16oz
MR-SD-7-280		12:55		X		X											X		1	1x16oz
MR-SD-7-280		12:55		X		X												X	1	1 plastic
MR-SD-7-45		12:24		X		X						X							4	3 Encore 1 2oz
MR-SD-7-45		12:24		X		X							X	X	X	X			2	2x16oz
MR-SD-7-45		12:24		X		X											X		1	1x16oz
MR-SD-7-45		12:24		X		X												X	1	1 plastic

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	11/3/00	FEDEX	1. Received By: Anne Sanders	11-4-00	1035 AM
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K040131 003
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 11/04/00
Work Order: DPDD91AL Date Extracted:11/13/00
Dilution factor: 0.94 Date Analyzed: 11/13/00
Moisture %:17

QC Batch: 0319199

Client Sample Id: MR-SD-6-90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	35	B
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
107-05-1	Allyl chloride	11	U
71-43-2	Benzene	0.72	J
75-27-4	Bromodichloromethane	5.6	U
75-25-2	Bromoform	5.6	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone (MEK)	23	U
75-15-0	Carbon disulfide	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
108-90-7	Chlorobenzene	8.0	
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	5.6	U
74-87-3	Chloromethane	11	U
126-99-8	Chloroprene	5.6	U
124-48-1	Dibromochloromethane	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
106-93-4	1,2-Dibromoethane (EDB)	5.6	U
74-95-3	Dibromomethane	5.6	U
110-57-6	trans-1,4-Dichloro-2-butene	5.6	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
156-60-5	trans-1,2-Dichloroethene	2.8	U
78-87-5	1,2-Dichloropropane	5.6	U

FORM I

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K040131 006
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.4 / g Date Received: 11/04/00
Work Order: DPDEL1AL Date Extracted:11/05/00
Dilution factor: 0.92 Date Analyzed: 11/14/00
Moisture %:13

QC Batch: 0319459

Client Sample Id: MR-SD-5-315

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	1300	B
75-05-8	Acetonitrile	5300	U
107-02-8	Acrolein	5300	U
107-13-1	Acrylonitrile	5300	U
71-43-2	Benzene	260	U
75-27-4	Bromodichloromethane	260	U
75-25-2	Bromoform	260	U
74-83-9	Bromomethane	530	U
75-15-0	Carbon disulfide	260	U
56-23-5	Carbon tetrachloride	260	U
108-90-7	Chlorobenzene	3100	
126-99-8	Chloroprene	260	U
124-48-1	Dibromochloromethane	260	U
96-12-8	1,2-Dibromo-3-chloropropane	530	U
75-00-3	Chloroethane	530	U
67-66-3	Chloroform	260	U
74-87-3	Chloromethane	530	U
107-05-1	Allyl chloride	530	U
74-95-3	Dibromomethane	260	U
110-57-6	trans-1,4-Dichloro-2-butene	260	U
75-71-8	Dichlorodifluoromethane	530	U
75-34-3	1,1-Dichloroethane	260	U
107-06-2	1,2-Dichloroethane	260	U
75-35-4	1,1-Dichloroethene	260	U
156-60-5	trans-1,2-Dichloroethene	130	U
78-87-5	1,2-Dichloropropane	260	U
10061-01-5	cis-1,3-Dichloropropene	260	U
10061-02-6	trans-1,3-Dichloropropene	260	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K040131 007
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.1 / g Date Received: 11/04/00
Work Order: DPDEM1AL Date Extracted:11/05/00
Dilution factor: 0.98 Date Analyzed: 11/14/00
Moisture %:24

QC Batch: 0319459

Client Sample Id: MR-SD-5-150

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	2500	B
75-05-8	Acetonitrile	6400	U
107-02-8	Acrolein	6400	U
107-13-1	Acrylonitrile	6400	U
71-43-2	Benzene	58	J
75-27-4	Bromodichloromethane	320	U
75-25-2	Bromoform	320	U
74-83-9	Bromomethane	640	U
75-15-0	Carbon disulfide	320	U
56-23-5	Carbon tetrachloride	320	U
108-90-7	Chlorobenzene	6700	
126-99-8	Chloroprene	320	U
124-48-1	Dibromochloromethane	320	U
96-12-8	1,2-Dibromo-3-chloropropane	640	U
75-00-3	Chloroethane	640	U
67-66-3	Chloroform	320	U
74-87-3	Chloromethane	640	U
107-05-1	Allyl chloride	640	U
74-95-3	Dibromomethane	320	U
110-57-6	trans-1,4-Dichloro-2-butene	320	U
75-71-8	Dichlorodifluoromethane	640	U
75-34-3	1,1-Dichloroethane	320	U
107-06-2	1,2-Dichloroethane	320	U
75-35-4	1,1-Dichloroethene	320	U
156-60-5	trans-1,2-Dichloroethene	160	U
78-87-5	1,2-Dichloropropane	320	U
10061-01-5	cis-1,3-Dichloropropene	320	U
10061-02-6	trans-1,3-Dichloropropene	320	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID:A0K040131 008
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.4 / g Date Received: 11/04/00
Work Order: DPDEQ1AL Date Extracted:11/05/00
Dilution factor: 0.92 Date Analyzed: 11/14/00
Moisture %:15

QC Batch: 0319459

Client Sample Id: MR-SD-7-150

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	1600	B
75-05-8	Acetonitrile	5400	U
107-02-8	Acrolein	5400	U
107-13-1	Acrylonitrile	5400	U
71-43-2	Benzene	36	J
75-27-4	Bromodichloromethane	270	U
75-25-2	Bromoform	270	U
74-83-9	Bromomethane	540	U
75-15-0	Carbon disulfide	270	U
56-23-5	Carbon tetrachloride	270	U
108-90-7	Chlorobenzene	1600	
126-99-8	Chloroprene	270	U
124-48-1	Dibromochloromethane	270	U
96-12-8	1,2-Dibromo-3-chloropropane	540	U
75-00-3	Chloroethane	540	U
67-66-3	Chloroform	270	U
74-87-3	Chloromethane	540	U
107-05-1	Allyl chloride	540	U
74-95-3	Dibromomethane	270	U
110-57-6	trans-1,4-Dichloro-2-butene	270	U
75-71-8	Dichlorodifluoromethane	540	U
75-34-3	1,1-Dichloroethane	270	U
107-06-2	1,2-Dichloroethane	270	U
75-35-4	1,1-Dichloroethene	270	U
156-60-5	trans-1,2-Dichloroethene	140	U
78-87-5	1,2-Dichloropropane	270	U
10061-01-5	cis-1,3-Dichloropropene	270	U
10061-02-6	trans-1,3-Dichloropropene	270	U

FORM I

052

TETRA TECH EM INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO Lab Sample ID: A0K040131 007
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g Date Received: 11/04/00
Work Order: DPDEM1AD Date Extracted: 11/07/00
Dilution factor: 1 Date Analyzed: 11/21/00
Moisture %: 24

QC Batch: 0312099

Client Sample Id: MR-SD-5-150

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
132-64-9	Dibenzofuran	430	U
84-74-2	Di-n-butyl phthalate	430	U
95-50-1	1,2-Dichlorobenzene	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	1700	
91-94-1	3,3'-Dichlorobenzidine	2100	U
120-83-2	2,4-Dichlorophenol	430	U
87-65-0	2,6-Dichlorophenol	430	U
84-66-2	Diethyl phthalate	430	U
297-97-2	Thionazin	2100	U
60-51-5	Dimethoate	860	U
60-11-7	p-Dimethylaminoazobenzene	860	U
57-97-6	7,12-Dimethylbenz(a)anthrace	860	U
119-93-7	3,3'-Dimethylbenzidine	2100	U
105-67-9	2,4-Dimethylphenol	430	U
131-11-3	Dimethyl phthalate	430	U
117-84-0	Di-n-octyl phthalate	430	U
99-65-0	1,3-Dinitrobenzene	430	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
51-28-5	2,4-Dinitrophenol	2100	U
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	860	U
122-39-4	Diphenylamine	430	U
298-04-4	Disulfoton	2100	U
62-50-0	Ethyl methanesulfonate	430	U
52-85-7	Famphur	4300	U
206-44-0	Fluoranthene	430	U