Sample Results
Report No. 1
for
Site 1 - Northeast
Pond Disposal Area

Naval Weapons
Industrial Reserve Plant
Calverton, New York

Engineering Field Activity Northeast
Naval Facilities Engineering Command
Contract Number N62472-03-D-0057

Contract Task Order 0004

November 2004

1.0 INTRODUCTION

1.1 PURPOSE

This Sample Results Report (No. 1) for Site 1 - Northeast Pond Disposal Area at Naval Weapons Industrial Reserve Plant (NWIRP) in Calverton, New York was prepared by TetraTech NUS, Inc. (TtNUS) under the Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract Number N62472-03-D-0057, Contract Task Order (CTO) No. 004.

This work is part of the Navy's Installation Restoration (IR) Program, which is designed to identify contamination of Navy and Marine Corps lands and facilities resulting from past operations and to institute remedial actions as necessary and consists of four distinct stages. Stage 1 is the Preliminary Assessment (PA), which was formerly known as the Initial Assessment Study (IAS). Stage 2 is a Resource Conservation and Recovery Act (RCRA) Facility Assessment-Sampling Visit (RFA), also referred to as a Site Investigation (SI), that augments information collected in the PA. Stage 3 is the RCRA Facility Investigation (RFI) and Corrective Measures Study (CMS), also referred to as a Remedial Investigation (RI) and Feasibility Study (FS) or Focused Feasibility Study (FFS) that characterizes the contamination at a facility and develops options for remediation of the site. Stage 4 is the Corrective Action, also referred to as the Remedial Action, which results in the control or cleanup of contamination at sites. This report has been prepared under Stage 4.

The purpose of this Report is to document sampling and analytical activities for groundwater at Site 1 - Northeast Pond Disposal Area. In spring 2002, prior to remedial activities at the site, groundwater samples were collected from the seven existing monitoring wells, three of which were located within the fill area. These samples did not contain site-related chemicals at concentrations greater than applicable groundwater standards and therefore, groundwater was not identified as a medium of concern for this site. However, during excavation, there was a potential that site contaminants could become mobile and therefore, the remedy included short-term, post-excavation testing of groundwater.

Excavation and off-site disposal of waste materials, contaminated soils, and sediment were conducted in 2002 and 2003. During the excavation, three groundwater monitoring wells located in the area of excavation were abandoned. These wells were located in an area that is

currently part of the pond with standing water and therefore, it was not practical or necessary to replace these wells. As a result, four groundwater monitoring wells remain at the site. One well is located upgradient of the site and three monitoring wells are located downgradient of the site. Except for revegetation activities (ongoing) and short-term groundwater testing, remedial activities are complete for the site.

In addition to Site 1 post-construction activities, Phase 2 RI testing and FS evaluations are continuing at several other IR sites. The results from the investigations and evaluations at the other sites have been or will be presented in supplemental Phase 2 RI and/or FS reports.

The post-construction groundwater sampling and analysis activities are being conducted in accordance with the Navy's Record of Decision, Operable Unit 1, Soils and Sediment at Site 1 - Northeast Pond Disposal Area, Naval Weapons Industrial Reserve Plant, Calverton New York, dated September 12, 2002.

This work is also being conducted in accordance with the requirements of the New York State Department of Environmental Conservation (NYSDEC) Division of Solid & Hazardous Materials Part 373 Permit issued to the Navy on April 18, 2000 under the NYSDEC implementing regulations [6 New York Codes, Rules, and Regulations (NYCRR) Part 621]. This permit supercedes and replaces the original Part 373 Permit to Operate a Hazardous Waste Storage Facility issued to what was then Grumman Aerospace Corporation on March 25, 1992. The new permit, issued only to the Department of the Navy, deals exclusively with those Solid Waste Management Units (SWMUs) that remain on the former NWIRP Calverton property and any Corrective Actions that may be required to adequately address each IR site. Although the Part 373 Permit is the enforceable document governing the Navy's remedial actions, the NYSDEC State Superfund Group, located in the Albany office, retains primary responsibility for regulatory oversight of the Navy's actions. The Navy has agreed to a request made by the NYSDEC State Superfund Group to utilize terminology associated with the NYSDEC State Superfund program, which is closely related to the Federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Program. The CERCLA terminology parallels the RCRA terminology, and the implementation phases of each have been determined to meet the substantive requirements of both programs and will also satisfy the Corrective Action requirements set forth in Module III of the Part 373 permit.

Site 1 is listed as Classification 2 in the NYSDEC Registry of Inactive Waste Disposal Sites.

1.2 FACILITY LOCATION

Site 1 – Northeast Pond Disposal Area is located within the confines of NWIRP Calverton, Suffolk County, New York (see Figure 1 and Figure 2). NWIRP Calverton is located on Long Island, approximately 70 miles east of New York City. The facility is located within the municipality of Riverhead.

Prior to 1996, NWIRP Calverton was a government-owned, contractor-operated (GOCO) facility operated by the Northrop Grumman Corporation. The facility had an overall area of approximately 6,000 acres, of which 3,000 acres were entirely within a fenced boundary. The majority of the industrial activity was confined to the south-central portion of the fenced area.

Currently, NWIRP Calverton consists of four separate parcels of land totaling approximately 358 acres. Eight Navy IR sites are included within these parcels as follows (see Figure 2).

Parcel A (32 acres)

Site 2 – Fire Training Area

Parcel B1 (40 acres)

Site 6A – Fuel Calibration Area

Site 10B – Engine Test House

Parcel B2 (131 acres)

Southern Area

Parcel C (10 acres)

Site 7 – Fuel Depot

Site 10A – Jet Fuel Systems Laboratory

Parcel D (145 acres)

Site 1 – Northeast Pond Disposal Area

Site 9 – ECM Area

1.3 REPORT FORMAT

Section 1.0 of this report presents this brief introduction. Section 2.0 details the sampling procedures. Section 3.0 provides an evaluation of the groundwater data. Conclusions are presented in Section 4.0. Table 1 provides the results of current and historic groundwater testing at the site. Figures 1 and 2 provide the General and Site Location maps, respectively. Figure 3 illustrates the locations of the Site 1 monitoring wells.

1.4 SCHEDULE

Two post-construction rounds of groundwater sampling are planned. The first round was conducted in June 2004. The second round is planned for December 2004. These rounds are expected to represent a wet and dry season, respectively. The Record of Decision for this site indicates that up to four rounds of groundwater sampling will be conducted over a two year period. The decision to conduct the last two rounds of groundwater sampling will be based on evaluation of the results from the first two rounds of groundwater sampling.

2.0 FIELD TASKS

In accordance with the Sampling and Analysis Plan, four existing monitoring wells at Site 1 were sampled using low-flow sample techniques (TtNUS 2004). Sample locations are illustrated on Figure 3. The groundwater samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, and metals. Chemicals from each of these fractions were detected in site wastes and soils at concentrations greater than background levels.

2.1 LOW FLOW SAMPLE PROCEDURES

The monitoring wells were purged using a variable speed submersible centrifugal pump. During the purging process, pH, conductivity, turbidity, and temperature were measured using a flow-through cell and field instruments to document stabilization of the groundwater parameters. Water level measurements during purging will ensure that the proper groundwater extraction rate is being used.

Monitoring well purge data sheets, groundwater sample log sheets, QA sample log sheets, and chain-of-custody forms are presented in Appendix A.

3.0 EVALUATION OF GROUNDWATER DATA

This section presents the results of the groundwater data collected at Site 1 during the first of two post-excavation groundwater sampling events. The samples were collected in June 2004. Four monitoring wells at Site 1 were sampled and analyzed for Target Compound List (TCL) VOCs, SVOC, pesticides, PCBs, Target Analyte List (TAL) inorganics and cyanide. Chemicals from these fractions were detected in formerly buried wastes, contaminated soils and/or contaminated sediments at concentrations greater than background. Laboratory Form I's and validated analytical summary sheets are presented in Appendix B. Validation letters are presented in Appendix C. Photographs of the site from summer 2004 are presented in Appendix D.

3.1 DATA EVALUATION

Table 1 presents a summary of the chemicals detected in groundwater samples collected from the four monitoring well locations during the June 2004 sampling event. In addition, data from previous groundwater sampling events are also presented, including:

- Two rounds of groundwater sampling from June and November 1997, (TtNUS 2002).
- One round of groundwater sampling from March 2002 (FWEC 2002).

The complete analytical datasets for the 1997 and 2002 pre-excavation groundwater sampling events are presented in their respective reports.

The relevant chemical-specific groundwater standards (NYSDEC Class GA and Federal MCL) are presented on Table 1 for comparative purposes.

Figure 3 shows site features such as: the extent of the pond area before the 2002 excavation of the landfill material, the current extent of the pond area, the upgradient monitoring well location NP-MW01, and the downgradient monitoring well locations NP-MW04, NP-MW05, and NP-MW06.

3.1.1 ORGANICS

VOCs, SVOCs, and PCBs were not detected in the June 2004 groundwater samples. During the three previous sampling rounds for these wells, chloroform was detected in one well at 1 ug/l during one sample event. 1,1-Dichloroethane and 1,1,1-trichloroethane were detected in the June 1997 and November 1997 groundwater samples from monitoring well NP-MW02I at maximum concentrations of 5.9 ug/l and 5.7 ug/l, respectively. The NYSDEC Class GA groundwater standard for these chemicals is 5 ug/l. VOCs were not detected in this monitoring well during the March 2002 sample event and the monitoring well was removed during the landfill excavation in 2002 and 2003.

Diethyl phthalate and N-nitrosdiproplyamine were detected during one sample round (November 1997) at concentrations of 1.1 to 8.0 ug/L, respectively. The NYSDEC Class GA groundwater standard for these chemicals is 50 ug/l. Bis (2-ethylhexyl) phthalate was detected in two wells during one event (November 1997) with concentrations ranging from 1.1 to 3.6 ug/L. The NYSDEC Class GA groundwater standard for bis (2-ethylhexyl) phthalate is 5 ug/l. As discussed below, bis (2-ethylhexyl phthalate) was detected in some of the June 2004 groundwater samples, but was rejected because an evaluation of blank contamination indicated that the reported detection was not reliable.

During the June 2004 sample event, 4,4'-DDT was detected at 0.082 ug/l in the field duplicate sample (NP-DUP-01). The detected concentration was less than the NYSDEC Class GA groundwater standard (0.2 µg/L). 4,4'-DDT was not detected in the corresponding groundwater sample from the monitoring well (NP-MW04-0604) and pesticides were not detected in the three previous sampling rounds for these wells. As discussed below, the reported detection of 4,4'-DDT in this well is not reliable.

3.1.2 INORGANICS

Several metals were detected in the June 2004 groundwater samples. Many of the metals are natural and commonly found in the area groundwater. However, with the exception of iron and thallium, none of the samples contained metals at concentrations greater than applicable groundwater standards. Aluminum, barium, chromium, copper, manganese and nickel were detected at all four monitoring well locations. Cadmium, mercury, silver, thallium, vanadium and

zinc were detected at 2 of 4 monitoring well locations, but at concentrations less than Class GA groundwater standards. Lead was detected only in the upgradient well NP-MW01, but at a concentration less than the Class GA groundwater standard. Cobalt was detected at 3 monitoring well locations. A Class GA groundwater standard/MCL is not available for cobalt.

The trend data for inorganics was qualitatively evaluated. For monitoring wells NP-MW04, MW05, and MW06, the inorganic results for the June 2004 groundwater sampling event are similar to previous data (within a factor of 2) and there is no obvious trend.

For NP-MW01, the inorganic results for the June 2004 groundwater sampling event appear to be higher than previous sample rounds (greater than a factor of 2). The statistical significance of this difference is uncertain. Many of the chemicals detected in the June 2004 round were found at concentrations less than the reporting limit. Also, as indicated above, none of the detected chemicals exceed NYSDEC Class GA groundwater standards or Federal MCLs.

Calcium, magnesium, potassium and sodium were detected in the June 2004 groundwater samples from all four monitoring well locations. However, no health based screening criteria is available for these chemicals because they are considered to be nontoxic essential nutrients.

Iron was detected in all of the June 2004 groundwater samples, at concentrations ranging from 21.3 to 2420 µg/L. Iron exceeded the Class GA groundwater standard (300 µg/L) at monitoring well locations NP-MW05 and NP-MW06. Iron, at concentrations greater than 300 ug/L, can cause staining of fixtures and clothing. Iron is also a common natural constituent of groundwater in the area.

During the June 2004 sampling event, thallium was detected in monitoring well sample NP-MW06 at a concentration of 3.4 ug/L and in the duplicate of monitoring well sample NW-MW04 at a concentration of 5.5 ug/L. These reported concentrations are within a factor of 2 of the instrument detection limit of 2.8, and as a result are generally not reliable detections. Similarly, thallium was detected in 4 of 12 samples during previous sample rounds at concentrations ranging from 3.4 to 5.8 ug/L. Based on the detection frequency and concentrations, the reported detections for the June 2004 sampling event are consistent with previous sampling events.

Also, thallium is common component of soils and would be expected to be found naturally in both site soil and groundwater. In addition, thallium was not detected in waste materials at the site and as such was not identified as a site contaminant in the soils or the landfill waste.

3.2 FIELD QC AND DATA VALIDATION

Field Quality Assurance/Quality Control (QA/QC) samples were collected in concert with the groundwater environmental samples. One trip blank was collected and analyzed for TCL – VOCs. One equipment rinse blank, one field blank and one field duplicate were collected and analyzed for TCL VOCs, SVOCs, pesticides, PCBs, TAL – inorganics and cyanide. Field QC were used to evaluate sample collection precision, contamination from equipment handling techniques and potential contamination from equipment rinse source water. The data was validated in accordance with USEPA Region II modifications to the National Functional Guidelines. Validation letters are presented in Appendix C.

Except as noted below, there were no significant problems with the data.

- The rinse blank (RB-062904) contained bis(2-ethylhexyl)phthalate at a concentration of 3.3 µg/L and the field blank (FB-062904) contained bis(2-ethylhexyl)phthalate at a concentration of 2.9 µg/L. Bis(2-ethylhexyl)phthalate was also detected in several groundwater samples; however, these results were qualified as false positives during the data validation process.

- Field duplicate imprecision was noted for the target pesticide 4,4'-DDT. The positive result for the target pesticide 4,4'-DDT exceeded the percent difference between analytical columns criteria. This result was also less than the CRQL. The data reviewer noted that the presence of this compound could be the result of instrument carryover. The affected data point was qualified as estimated (J) for all of these issues.

REFERENCES

Foster Wheeler Environmental Corporation (FWEC), 2002. Excavation and Off-Site Disposal of Landfill at Site 1, Northeast Pond Disposal Area, NWIRP - Calverton, NY, May. Engineering Field Activity Northeast, Naval Facilities Engineering Command, Contract Number N62472-99-D-0032, Contract Task Order 0071.

Tetra Tech NUS (TtNUS) 2002. Phase 2 Remedial Investigation and Focused Feasibility Study for Site 1 – Northeast Disposal Pond Disposal Area, Naval Weapons Industrial Reserve Plant, Calverton, New York, February. Engineering Field Activity Northeast, Naval Facilities Engineering Command, Contract Number N62472-90-D-1298, Contract Task Orders 0189 and 0270.

TtNUS 2004. Sampling and Analysis Plan for Site 1 – Northeast Disposal Pond Disposal Area, Naval Weapons Industrial Reserve Plant, Calverton, New York, June. Engineering Field Activity Northeast, Naval Facilities Engineering Command, Contract Number N62472-03-D-0057, Contract Task Order 0004.

TABLE 1

GROUNDWATER MONITORING RESULTS (UG/L)
SITE 1 - NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON, NEW YORK

MONITORING WELL NP-MW01

Chemical	NYSDEC Groundwater Criteria/ Federal MCL	Sample Date			
		Jun-97	Nov-97	Mar-02	Jun-04
Volatile Organic Compounds					
CHLOROFORM	NA/NA				
Semivolatile Organic Compounds					
DIETHYL PHTHALATE	NA/NA		1.1		
Pesticides/PCBs					
4,4'-DDT	0.2/NA				
Inorganics					
ALUMINUM	NA/NA	37.7	61.7	57.1	236
ARSENIC	25/10				
BARIUM	1000/NA	16.2	16.2	11	29.1
BERYLLIUM	NA/2	0.24			0.32
CADMIUM	5/5				0.71
CALCIUM	NA/NA	4290	4040	3190	4520
CHROMIUM	50/100			1.3	26.9
COBALT	NA/NA	4.1			11.8
COPPER	200/1300		2.7	5.6	40.7
IRON	300/NA	6.6	82.4	85	261
LEAD	25/15	1.1			1.9
MAGNESIUM	NA/NA	1290	1280	914	1310
MANGANESE	500/NA	56.5	40.7	21.4	99.5
MERCURY	0.7/2				0.05
NICKEL	100/NA				19.5
POTASSIUM	NA/NA	758	652	402	641
SILVER	50/NA				0.62
SODIUM	NA/NA	4720	3810	2680	3350
THALLIUM	NA/2	**4**			
VANADIUM	NA/NA	1.8			
ZINC	NA/NA	7.1	6.6	28.4	51.1

TABLE 1

GROUNDWATER MONITORING RESULTS (UG/L)
SITE 1 - NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON, NEW YORK
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MONITORING WELL NP-MW02S

Chemical	NYSDEC Groundwater Criteria/ Federal MCL	Sample Date			
		Jun-97	Nov-97	Mar-02	Jun-04
Volatile Organic Compounds					
CHLOROFORM	NA/NA				NS
Semivolatile Organic Compounds					
N-NITROSDIPROPYLAMINE	NA/NA		8.0		NS
Pesticides/PCBs					
4,4'-DDT	0.2/NA				NS
Inorganics					
ALUMINUM	NA/NA	23.8	52.2	40.6	NS
ARSENIC	25/10				NS
BARIUM	1000/NA	121	129	252	NS
BERYLLIUM	NA/2	0.15			NS
CADMIUM	5/5			1.7	NS
CALCIUM	NA/NA	449000	408000	376000	NS
CHROMIUM	50/100			4.7	NS
COBALT	NA/NA			1.1	NS
COPPER	200/1300		2.1	6.1	NS
IRON	300/NA	**14500**	**5250**	277	NS
LEAD	25/15			7.3	NS
MAGNESIUM	NA/NA	24600	21400	19900	NS
MANGANESE	500/NA	**1720**	**1180**	**1200**	NS
MERCURY	0.7/2				NS
NICKEL	100/NA				NS
POTASSIUM	NA/NA	16800	15500	13400	NS
SILVER	50/NA				NS
SODIUM	NA/NA	15000	14400	10700	NS
THALLIUM	NA/2	**6.7**	**3.7**		NS
VANADIUM	NA/NA	4.9	5.6	1.7	NS
ZINC	NA/NA	15.0	20.5	122	NS

TABLE 1

GROUNDWATER MONITORING RESULTS (UG/L)
SITE 1 - NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON, NEW YORK

MONITORING WELL NP-MW02I

Chemical	NYSDEC Groundwater Criteria/ Federal MCL	Sample Date			
		Jun-97	Nov-97	Mar-02	Jun-04
Volatile Organic Compounds					
1,1-DICHLOROETHANE	5/NA	1.3	**5.9**		NS
1,1,1-TRICHLOROETHANE	5/200	**5.7**	4.4		NS
Semivolatile Organic Compounds					
N-NITROSDIPROPYLAMINE	NA/NA		7.3		NS
Pesticides/PCBs					
4,4'-DDT	0.2/NA				NS
Inorganics					
ALUMINUM	NA/NA	13.8	37.4	59.6	NS
ARSENIC	25/10				NS
BARIUM	1000/NA	49.7	27.8	6.3	NS
BERYLLIUM	NA/2	0.15			NS
CADMIUM	5/5	3.8		0.76	NS
CALCIUM	NA/NA	81000	31100	6610	NS
CHROMIUM	50/100			1.8	NS
COBALT	NA/NA	6.3			NS
COPPER	200/1300	1.9	2.0	4.3	NS
IRON	300/NA	**354**	96.8	47.3	NS
LEAD	25/15			3.6	NS
MAGNESIUM	NA/NA	8500	5540	2070	NS
MANGANESE	500/NA	33.3	2.8	0.83	NS
MERCURY	0.7/2				NS
NICKEL	100/NA	10.1			NS
POTASSIUM	NA/NA	5970	3000	1630	NS
SELENIUM	10		2.6		NS
SILVER	50/NA				NS
SODIUM	NA/NA	8590	5390	4710	NS
THALLIUM	NA/2		**5.8**		NS
VANADIUM	NA/NA	2.8			NS
ZINC	NA/NA	13.7	11.4	31.9	NS

TABLE 1

GROUNDWATER MONITORING RESULTS (UG/L)
SITE 1 - NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON, NEW YORK

MONITORING WELL NP-MW03

Chemical	NYSDEC Groundwater Criteria/ Federal MCL	Sample Date				
		Jun-97	Nov-97	Nov-97 Duplicate	Mar-02	Jun-04
Volatile Organic Compounds						
ACETONE	NA/NA			8.4		NS
Semivolatile Organic Compounds						
DIETHYL PHTHALATE	50/NA			1.1		NS
Pesticides/PCBs						
4,4'-DDT	0.2/NA					NS
Inorganics						
ALUMINUM	NA/NA	76.6	285	745	51.9	NS
ARSENIC	25/10					NS
BARIUM	1000/NA	17.3	19.6	21.5	13.4	NS
BERYLLIUM	NA/2					NS
CADMIUM	5/5				1.0	NS
CALCIUM	NA/NA	37600	40400	44200	29500	NS
CHROMIUM	50/100			7.0	2.2	NS
COBALT	NA/NA					NS
COPPER	200/1300	2.5	4.5	9.2	5.6	NS
IRON	300/NA	24.2	194	**698**	51.3	NS
LEAD	25/15					NS
MAGNESIUM	NA/NA	2670	2220	2430	1560	NS
MANGANESE	500/NA	14.9	12.9	16.8	9.4	NS
MERCURY	0.7/2					NS
NICKEL	100/NA					NS
POTASSIUM	NA/NA	1870	1650	2030	1310	NS
SILVER	50/NA					NS
SODIUM	NA/NA	1970	2040	2250	2100	NS
THALLIUM	NA/2	**3.3**	**5.8**			NS
VANADIUM	NA/NA	3.0	4.1	7.0	3.2	NS
ZINC	NA/NA	13.7	10.2	17.7	18.9	NS

TABLE 1

GROUNDWATER MONITORING RESULTS
SITE 1 - NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON, NEW YORK

MONITORING WELL NP-MW04

Chemical	NYSDEC Groundwater Criteria/ Federal MCL	Sample Date					
		Jun-97	June-97 Duplicate	Nov-97	Mar-02	Jun-04	Jun-04 Duplicate
Volatile Organic Compounds					1J		
CHLOROFORM	NA/NA						
Semivolatile Organic Compounds							
BIS(2-ETHYLHEXYL) PHTHALATE	5/6	2.4	1.3				
Pesticides/PCBs							
4,4'-DDT	0.2/NA						
Inorganics							
ALUMINUM	NA/NA	137	145	217	213	222	209
ARSENIC	25/10						
BARIUM	1000/NA	29.8	30.2	27.4	24.7	22.5	22.2
BERYLLIUM	NA/2	0.61	0.68	0.62	0.42	0.64	0.68
CADMIUM	5/5				0.67		
CALCIUM	NA/NA	1260	1370	1110	763	961	948
CHROMIUM	50/100				1.4	2.1	2.0
COBALT	NA/NA					0.34	
COPPER	200/1300			5.1	5.1	3.2	3.0
IRON	300/NA	7.1	11.1	35.8	44.6	30.6	21.3
LEAD	25/15			2.8	2.6		
MAGNESIUM	NA/NA	1820	1870	1250	1080	1230	1210
MANGANESE	500/NA	38.2	38.6	52.8	16.9	34.1	33.7
MERCURY	0.7/2						0.07
NICKEL	100/NA					2.6	1.6
POTASSIUM	NA/NA	567	724	427	39	379	379
SILVER	50/NA					0.37	
SODIUM	NA/NA	6770	6990	5410	4540	4770	4720
THALLIUM	NA/2	**5.8**	**4.2**				**5.5**
VANADIUM	NA/NA		1.8				
ZINC	NA/NA	11.4	17.3	7.5	24.4	7.8	7.0

TABLE 1

GROUNDWATER MONITORING RESULTS (UG/L)
SITE 1 - NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON, NEW YORK

MONITORING WELL NP-MW05

Chemical	NYSDEC Groundwater Criteria/ Federal MCL	Sample Date			
		Jun-97	Nov-97	Mar-02	Jun-04
Volatile Organic Compounds					
CHLOROFORM	NA/NA				
Semivolatile Organic Compounds					
BIS(2-ETHYLHEXYL) PHTHALATE	5/6				
Pesticides/PCBs					
4,4'-DDT	0.2/NA				
Inorganics					
ALUMINUM	NA/NA	436	336	665	537
ARSENIC	25/10				
BARIUM	1000/NA	15.5	3.8	9.0	15.3
BERYLLIUM	NA/2	0.29		0.26	0.21
CADMIUM	5/5				
CALCIUM	NA/NA	6620	7160	6240	11100
CHROMIUM	50/100			4.5	2.3
COBALT	NA/NA			1.6	1.2
COPPER	200/1300			5.0	1.1
IRON	300/NA	244	**5500**	**3700**	**865**
LEAD	25/15			6.7	
MAGNESIUM	NA/NA	888	605	785	1190
MANGANESE	500/NA	24.2	69.4	30.6	38.2
MERCURY	0.7/2				
NICKEL	100/NA				1.2
POTASSIUM	NA/NA	359		251	290
SILVER	50/NA				
SODIUM	NA/NA	3380	3540	3320	4110
THALLIUM	NA/2	**3.6**			
VANADIUM	NA/NA	2.4	2.7	5.8	4.0
ZINC	NA/NA	3.9	5.8	33.6	4.1

TABLE 1

GROUNDWATER MONITORING RESULTS (UG/L)
SITE 1 - NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON, NEW YORK

MONITORING WELL NP-MW06

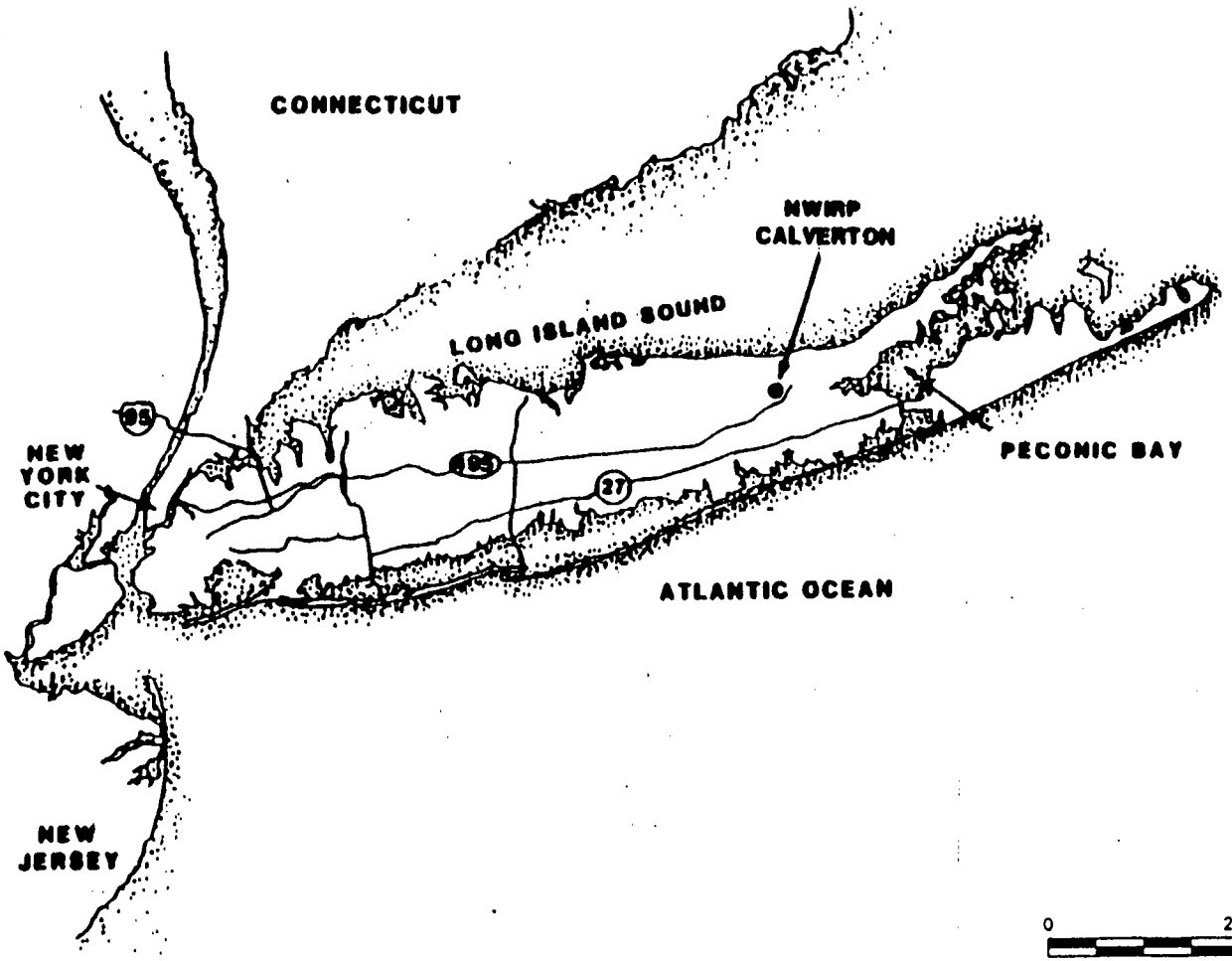
Chemical	NYSDEC Groundwater Criteria/ Federal MCL	Sample Date			
		Jun-97	Nov-97	Mar-02	Jun-04
Volatile Organic Compounds					
CHLOROFORM	NA/NA				
Semivolatile Organic Compounds					
BIS(2-ETHYLHEXYL) PHTHALATE	5/6		3.6		
Pesticides/PCBs					
4,4'-DDT	0.2/NA				
Inorganics					
ALUMINUM	NA/NA	455	433	245	320
ARSENIC	25/10		3		
BARIUM	1000/NA	4	22.4	11.4	2.6
BERYLLIUM	NA/2				
CADMIUM	5/5				0.99
CALCIUM	NA/NA	6220	7400	10400	6060
CHROMIUM	50/100			1.6	1.4
COBALT	NA/NA		4		
COPPER	200/1300	2.2	2.4	4.4	1.4
IRON	300/NA	**3920**	**493**	**10500**	**2420**
LEAD	25/15				
MAGNESIUM	NA/NA	673	573	1020	1220
MANGANESE	500/NA	59.3	30.6	111	55.3
MERCURY	0.7/2				
NICKEL	100/NA				1.1
POTASSIUM	NA/NA	354		168	124
SILVER	50/NA				
SODIUM	NA/NA	3780	3790	3100	3980
THALLIUM	NA/2	**3.4**			**3.4**
VANADIUM	NA/NA	1.8	4.7	2.2	2.1
ZINC	NA/NA	3.9	3.6	28.4	9.5

TABLE 1

GROUNDWATER MONITORING RESULTS (UG/L)
SITE 1 - NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON, NEW YORK

J = Estimated Result
NA = Not Available
NS = Not sampled. Monitoring wells were removed during excavation of the landfill.
Parameters shown in Table 1 were detected in at least one sample. Parameters not shown were not detected during any of the sampling events. A complete list of parameters can be found in Appendix B.
A blank cell indicates that the parameter was analyzed for, but not detected in that sample.

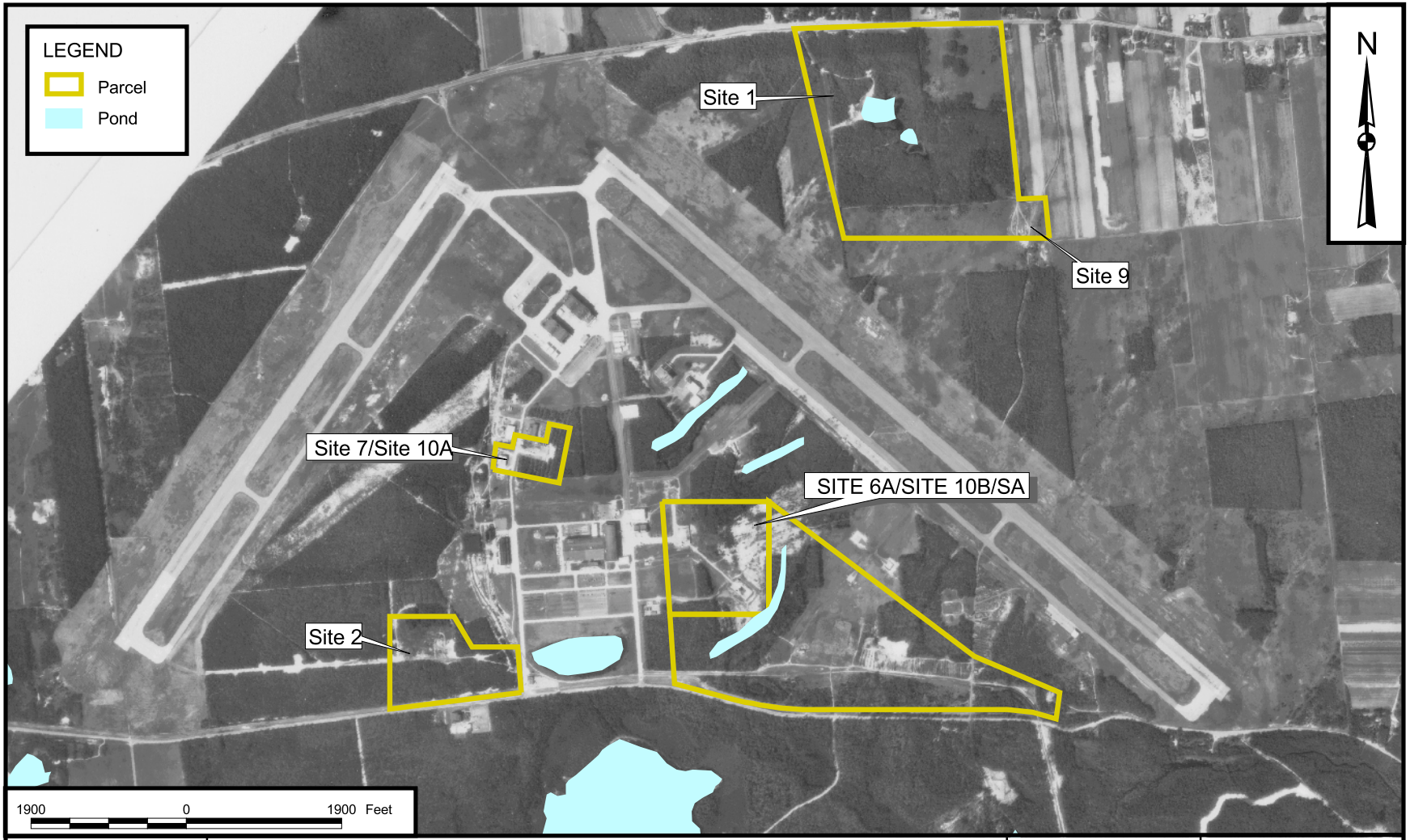
ACAD: 7398Q001.dwg 12/14/00 MF



DRAWN BY DATE DLT 12/22/99	Tetra Tech NUS, Inc.	CONTRACT NO. 7398	OWNER NO.
CHECKED BY DATE	GENERAL LOCATION MAP RCRA FACILITY INVESTIGATION NWIRP, CALVERTON, NEW YORK	APPROVED BY	DATE
COST/SCHED-AREA		APPROVED BY	DATE
SCALE AS NOTED		DRAWING NO. FIGURE 1	REV. 0

FORM CADD NO. TtNUS_AH.DWG - REV 0 - 1/22/98

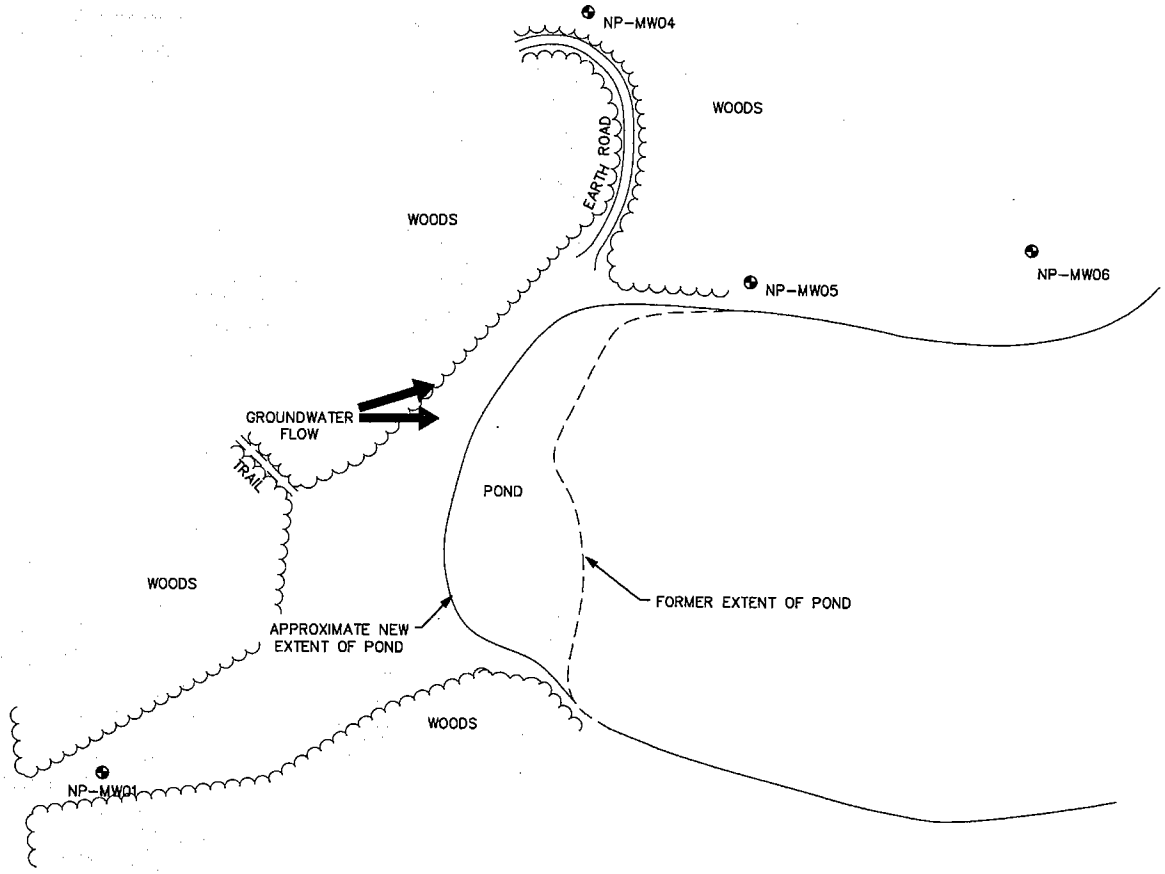
CTO 0004



DRAWN BY: J. LAMEY	DATE: 11/22/99	Tetra Tech NUS, Inc.	CONTRACT NUMBER: 7398 / OWNER NUMBER: 0270
CHECKED BY: ___	DATE: ___		APPROVED BY: ___ / DATE: ___
COST/SCHEDULE-AREA		SITE LOCATION MAP NWIRP CALVERTON, NEW YORK	APPROVED BY: ___ / DATE: ___
SCALE: AS NOTED			DRAWING NO.: FIGURE 2 / REV: 0

P:\GIS\NWIRP_CALVERTON\SURFACE_WATER_HYDROLOGY.APR SITE LOCATION MAP 01/04/01 JAL

ACAD:1610CM01.dwg 04/22/04 HJB PIT



N

LEGEND:

MONITORING WELL LOCATION

0 100 200

SCALE IN FEET

REVISIONS	NO.	DATE	BY	CHKD	APPD	REFERENCES

DRAWN BY DATE: HJB 4/22/04

CHECKED BY DATE:

COST/SCHED—AREA:

SCALE: AS NOTED

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOCATIONS
SITE 1 – NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON, NEW YORK

CONTRACT NO. 1610 | OWNER NO. 004

APPROVED BY DATE

APPROVED BY DATE

DRAWING NO. FIGURE 3 | REV. 0

FORM CADD NO. TINUS_BH.DGN – REV 0 – 1/20/98

CTO 0004

APPENDIX A
FIELD FORMS

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: CTO-004

WELL ID.: NP-MW01
DATE: 6-29-04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1730	39.06'	360	6.00	0.084	104	14.01	14.71	183	0.0	slightly cloudy (Brown
1735	39.07	360	5.38	0.082	70.1	14.29	14.29	188	0.0	"
1740	39.06'	360	5.15	0.082	36.2	11.40	15.17	201	0.0	very slight Tint (Brown)
1745	39.07	360	5.29	0.081	27.0	9.39	15.22	199	0.0	clear
1750	39.08	360	5.21	0.081	24.1	9.11	15.47	198	0.0	"
1755	39.10	360	5.14	0.082	19.9	9.03	15.36	206	0.0	"
1800	39.10	360	5.17	0.082	11.2	8.87	15.67	215	0.0	"
1805	39.09	360	5.19	0.082	7.4	8.48	15.80	220	0.0	"
1810	39.09	360	5.16	0.083	3.6	8.55	15.77	226	0.0	"
1815	39.09	360	5.17	0.083	0.8	8.60	15.82	224	0.0	"
1820	39.09	360	5.18	0.083	1.0	8.62	15.79	225	0.0	"

SIGNATURE(S): [signature]

PAGE 1 OF 1

A1

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: CTO-004
WELL ID.: NP-MW04
DATE: 6-29-04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1120	39.67	380	4.93	0.066	8.7	11.43	13.21	328	0.0	clear
1125	39.65	380	4.86	0.047	3.3	11.57	13.30	357	0.0	clear
1130	39.65	380	4.92	0.043	2.4	11.76	14.00	356	0.0	clear
1135	39.65	380	4.96	0.042	1.5	11.59	14.55	354	0.0	clear
1140	39.65	380	4.91	0.041	1.3	11.69	14.75	351	0.0	clear
1145	39.65	380	4.85	0.040	0.5	11.40	14.78	349	0.0	clear
1150	39.65	380	4.79	0.040	0.3	11.21	14.82	350	0.0	clear
1155	39.65	380	4.78	0.040	0.0	11.08	14.91	353	0.0	clear
1200	39.65	380	4.77	0.040	0.0	10.74	14.92	354	0.0	clear
1205	39.65	380	4.76	0.040	0.0	10.58	14.93	355	0.0	clear
1210	39.65	380	4.75	0.040	0.0	10.30	14.91	357	0.0	clear
1215	39.65	380	4.74	0.040	0.0	10.26	14.92	358	0.0	clear
1220	39.65	380	4.74	0.040	0.0	10.22	14.91	359	0.0	clear

SIGNATURE(S): [signature]

A2

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: CTO-004
WELL ID.: NP-MW05
DATE: 6-29-04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1325	8.19	360	6.19	0.112	79.5	12.89	15.36	12	0.0	slight Tint (Brown)
1330	8.19	360	6.08	0.109	55.4	10.74	15.49	9	0.0	"
1335	8.19	360	6.00	0.107	44.2	9.99	15.77	10	0.0	"
1340	8.20	360	5.93	0.103	46.6	9.07	15.22	16	0.0	"
1345	8.20	360	5.96	0.100	48.7	8.66	15.48	20	0.0	"
1350	8.20	360	6.00	0.097	53.0	7.85	15.51	22	0.0	"
1355	8.20	360	5.97	0.098	50.1	8.07	15.60	25	0.0	"
1400	8.20	360	5.95	0.096	52.0	7.93	15.85	28	0.0	"
1405	8.20	360	5.91	0.095	51.4	7.99	15.88	29	0.0	"
1410	8.20	360	5.88	0.093	56.2	8.04	15.67	34	0.0	"
1415	8.20	360	5.88	0.092	37.0	7.89	15.56	33	0.0	very slight Tint (Brown)
1420	8.20	360	5.89	0.092	20.6	7.54	15.61	32	0.0	"
1425	8.20	360	5.87	0.090	19.9	7.53	15.49	36	0.0	"
1430	8.20	360	5.86	0.089	11.4	7.60	15.51	38	0.0	clear
1435	8.20	360	5.86	0.088	6.7	7.59	15.60	39	0.0	"
1440	8.20	360	5.85	0.088	4.4	7.52	15.57	40	0.0	"
1445	8.20	360	5.85	0.087	3.9	7.50	15.61	41	0.0	"

SIGNATURE(S): [signature]

PAGE 1 OF 1

A3

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: _____ WELL ID.: NP-MW06

PROJECT NUMBER: _____ DATE: 6-29-04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1505	4.22	275	6.23	0.055	32.8	10.22	17.52	-14	0.0	slight Tint (Brown)
1510	4.24	275	6.12	0.054	7.7	7.70	17.02	-17	0.0	clear
1515		275	6.03	0.053	10.0	6.62	17.90	-19	0.0	"
1520	4.25	275	6.06	0.053	9.7	6.15	19.50	-21	0.0	"
1525		275	6.18	0.055	0.3	6.67	18.61	-26	0.0	"
1530	4.24	275	6.12	0.054	-10.0	6.76	18.43	-23	0.0	"
1535		275	6.08	0.054	-10.0	6.88	18.57	-23	0.0	"
1540	4.23	275	6.07	0.054	-10.0	6.89	18.76	-24	0.0	"
1545		275	6.08	0.054	-10.0	6.94	19.07	-26	0.0	"
1550	4.23	275	6.09	0.054	0.0	7.02	18.77	-28	0.0	"
1555		275	6.10	0.054	0.0	7.15	18.55	-30	0.0	"
1600	4.23	275	6.09	0.054	0.0	7.23	18.24	-30	0.0	"
1605		275	6.07	0.053	0.0	7.07	18.61	-30	0.0	"
1610	4.24	600	5.93	0.053	0.0	7.15	17.02	-25	0.0	"
1615		350	6.10	0.053	0.0	6.93	17.92	-32	0.0	"
1620	4.24	300	6.12	0.053	0.0	6.95	17.84	-34	0.0	"
1625	4.24	300	6.11	0.053	0.0	6.92	17.79	-35	0.0	"
1630	4.24	300	6.12	0.053	0.0	6.98	17.83	-36	0.0	"

SIGNATURE(S): _____

A4

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: CTO-004

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW01-0604
Sample Location: NP-MW01
Sampled By: VAS
C.O.C. No.: 0659
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-04	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1820								ORP
Method: Low flow pump	clear	5.18	0.083	15.79	1.0	8.62	0.0	225

PURGE DATA:

Date: 6-29-04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow pump								
Monitor Reading (ppm): 0								
Well Casing Diameter & Material								
Type: 4inch PVC								
Total Well Depth (TD): 42.22'			(see	low	flow	purge	sheets)	
Static Water Level (WL): 39.06'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1730								
End Purge (hrs): 1820								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 7.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	2 X 40 ml Vials	2
SVOCs	—	1 X 1 Liter Amber	1
PEST/PCB	—	1 X 1 Liter Amber	1
Total Metals	HNO3	1 X 500 ml poly	1
Cyanide	—	1 X 1 Liter Amber	1

OBSERVATIONS / NOTES:

No odors, stains, elevated PID readings observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: CTO-004

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW04-0604
Sample Location: NP-MW04
Sampled By: VAS
C.O.C. No.: 0659
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~
Time: 1220	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow pump	clear	4.74	0.040	14.91	0.0	10.22	0.0	359

PURGE DATA:

Date: 6-29-04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 47.15'			(see low Flow purge sheets)					
Static Water Level (WL): 39.69								
One Casing Volume(gal/L):								
Start Purge (hrs): 1120								
End Purge (hrs): 1220								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 7.7								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	2 X 40 ml vials	4
SVOC	—	1 X 1 Liter Amber	2
Pest/PCB	—	1 X 1 Liter Amber	2
Total metals	HNO_3	1 X 500 ml Poly	2
Cyanide	—	1 X 1 Liter Amber	2

OBSERVATIONS / NOTES:

No odors, stains, elevated PID readings observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	NP-DUP-01

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: CTO-004

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW05-0604
Sample Location: NP-MW05
Sampled By: VAS
C.O.C. No.: 0659
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1445	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow pump	clear	5.85	0.087	15.61	3.9	7.50	0.0	41

PURGE DATA:

Date: 6-29-04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 4 inch PVC			(See low flow purge sheets)					
Total Well Depth (TD): 15.71'								
Static Water Level (WL): 8.19'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1325								
End Purge (hrs): 1445								
Total Purge Time (min): 80								
Total Vol. Purged (gal/L): 8.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	2 X 40 ml vials	6
SVOC	-	1 X 1 Liter Amber	3
Pest/PCB	-	1 X 1 Liter Amber	3
Total Metals	HNO_3	1 X 500 ml Poly	2
Cyanide	-	1 X 1 Liter Amber	2

OBSERVATIONS / NOTES:

- Strong "Rotten Egg" odor during purge/sampling
- No stains or elevated PID readings observed

Circle if Applicable:
~~MS/MSD~~ (Yes)
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: CTO-004

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW06-0604
Sample Location: NP-MW06
Sampled By: VAS
C.O.C. No.: 0659
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-04	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1630								
Method: Low Flow pump	clear	6.12	0.053	17.83	0.0	6.98	0.0	-36

PURGE DATA:

Date: 6-29-04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow pump								
Monitor Reading (ppm): 0								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 15.47'								
Static Water Level (WL): 4.22'			(see	low	flow	purge	sheets)	
One Casing Volume(gal/L):								
Start Purge (hrs): 1505								
End Purge (hrs): 1630								
Total Purge Time (min): 75								
Total Vol. Purged (gal/L): 7.8								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	2 X 40 ml vials	2
SVOCs	-	1 X 1 Liter Amber	1
PEST/PCB	-	1 X 1 Liter Amber	1
Total Metals	HNO_3	1 X 500 ml Poly	1
Cyanide	-	1 X 1 Liter Amber	1

OBSERVATIONS / NOTES:

- Strong "Rotten Egg" odor during purge/sampling.
- No stains or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: CTO-004
Sample Location: Site 1
QA Sample Type:

Sample ID Number: TB-062904
Sampled By: VAS
C.O.C. Number: 0659

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 6-29-04
Time: 1110
Method: direct pour

WATER SOURCE:

[] Laboratory Prepared
[X] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name: Alpha Aesar HPLC water
Supplier: Alpha Aesar
Manufacturer: Alpha Aesar
Order Number:
Lot Number: D03N22
Expiration Date: 9-04

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	2 X 40 ml vials	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: CTO-004
Sample Location: Site 1
QA Sample Type:

Sample ID Number: FB-062904
Sampled By: VAS
C.O.C. Number: 0659

[] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[X] Other Blank Field Blank

SAMPLING DATA:

Date: 6-29-04
Time: 1520
Method: Direct pour

WATER SOURCE:

[] Laboratory Prepared
[X] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name: DI water (purified)
Supplier: EM Science
Manufacturer: MultiPharm
Order Number:
Lot Number: 3220
Expiration Date: Aug 31, 2004

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	2 X 40 ml vials	(YES) NO
Semivolatiles	Cool 4°C	1 X 1 Liter Amber	(YES) NO
Pesticide / PCB	Cool 4°C	1 X 1 Liter Amber	(YES) NO
Metals	Cool 4°C & HNO_3	1 X 500 ml poly	(YES) NO
Cyanide	Cool 4°C & ~~NaOH~~ (VAS)	1 X 1 Liter Amber	(YES) NO

OBSERVATIONS / NOTES:

Signature(s): VAS

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project Number: CTO-004
Sample Location: Site 1
QA Sample Type:

Sample ID Number: RB-062904
Sampled By: VAS
C.O.C. Number: 0659

[] Trip Blank
[] Source Water Blank
[X] Rinsate Blank
[] Other Blank ____

SAMPLING DATA:

Date: 6-29-04
Time: 1300
Method: direct pour

WATER SOURCE:

[] Laboratory Prepared
[X] Purchased
[] Other ____
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name: DI water (purified)
Supplier: EM Science
Manufacturer: Multi Pharm
Order Number: ____
Lot Number: 3220
Expiration Date: Aug 31, 2004

RINSATE INFORMATION (If Applicable):

Media Type: Groundwater
Equipment Used: Redi-Flow pump
Equipment Type:
[] Dedicated
[X] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	2 X 40 ml vials	(YES) NO
Semivolatiles	Cool 4°C	1 X 1 Liter Amber	(YES) NO
Pesticide / PCB	Cool 4°C	1 X 1 Liter Amber	(YES) NO
Metals	Cool 4°C & HNO_3	1 X ~~1 Liter~~ 500ml poly	(YES) NO
Cyanide	Cool 4°C & ~~NaOH~~	1 X 1 Liter Amber	(YES) NO

OBSERVATIONS / NOTES:

Water poured over "cleaned" Redi-Flow pump directly into Bottleware.

Signature(s):

A11

STL Pittsburgh

TETRA TECH NUS, INC. — CHAIN OF CUSTODY | NUMBER 0659 | PAGE 1 OF 1

PROJECT NO: CTO-004	FACILITY: NWIRP Calverton	PROJECT MANAGER: Dave Brayack	PHONE NUMBER: (412) 921-8375	LABORATORY NAME AND CONTACT: STL Pitts.
SAMPLERS (SIGNATURE): Vince Shickora		FIELD OPERATIONS LEADER: Vince Shickora	PHONE NUMBER: (610) 491-9688	ADDRESS
		CARRIER/WAYBILL NUMBER: FED EX 8389 5045 3352		CITY, STATE

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE / YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 40 ml VOCs	1 Liter Amber SVOCs	1 Liter Amber PEST/PCB	500 ml Poly Total Metals	1 Liter Amber Cyanide	COMMENTS
								CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G	P	G	
								PRESERVATIVE USED	HCl	None	None	HNO3	None	
6/29/04	1110	TB-062904				QC	G	2	2					Trip Blank
6/29/04	1220	NP-MW04-0604				GW	G	6	2	1	1	1	1	
6/29/04	1300	RB-062904				QC	G	6	2	1	1	1	1	Rinsate Blank
6/29/04	1445	NP-MW05-0604				GW	G	16	6	3	3	2	2	Do MS/MSD
6/29/04	0000	NP-DUP-01				GW	G	6	2	1	1	1	1	
6/29/04	1520	FB-062904				QC	G	6	2	1	1	1	1	Field Blank
6/29/04	1630	NP-MW06-0604				GW	G	6	2	1	1	1	1	
6/29/04	1820	NP-MW01-0604				GW	G	6	2	1	1	1	1	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY:	6-30-04	1630	1. RECEIVED BY		
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	7-1-04	0945

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

A12

(1-119)

APPENDIX B
ANALYTICAL DATA

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 007
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD461AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-MW01-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 007
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD461AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-MW01-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
108-87-2	Methylcyclohexane	10	U
108-10-1	4-Methyl-2-pentanone	10	U
1634-04-4	Methyl tert-butyl ether	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
127-18-4	Tetrachloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-triflu	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	92	(88 - 110)
Bromofluorobenzene	92	(86 - 115)
1,2-Dichloroethane-d4	109	(76 - 114)

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 007
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD461AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW01-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	9.5	U
208-96-8	Acenaphthylene	9.5	U
98-86-2	Acetophenone	9.5	U
120-12-7	Anthracene	9.5	U
1912-24-9	Atrazine	9.5	U
56-55-3	Benzo(a)anthracene	9.5	U
50-32-8	Benzo(a)pyrene	9.5	U
205-99-2	Benzo(b)fluoranthene	9.5	U
191-24-2	Benzo(ghi)perylene	9.5	U
207-08-9	Benzo(k)fluoranthene	9.5	U
100-52-7	Benzaldehyde	9.5	U
92-52-4	1,1'-Biphenyl	9.5	U
111-91-1	bis(2-Chloroethoxy)methane	9.5	U
111-44-4	bis(2-Chloroethyl) ether	9.5	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	2.2	J
101-55-3	4-Bromophenyl phenyl ether	9.5	U
85-68-7	Butyl benzyl phthalate	9.5	U
105-60-2	Caprolactam	9.5	U
86-74-8	Carbazole	9.5	U
106-47-8	4-Chloroaniline	9.5	U
59-50-7	4-Chloro-3-methylphenol	9.5	U
91-58-7	2-Chloronaphthalene	9.5	U
95-57-8	2-Chlorophenol	9.5	U
7005-72-3	4-Chlorophenyl phenyl ether	9.5	U
218-01-9	Chrysene	9.5	U
53-70-3	Dibenz(a,h)anthracene	9.5	U
132-64-9	Dibenzofuran	9.5	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 007
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD461AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW01-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
120-83-2	2,4-Dichlorophenol	9.5	U
84-66-2	Diethyl phthalate	9.5	U
105-67-9	2,4-Dimethylphenol	9.5	U
131-11-3	Dimethyl phthalate	9.5	U
84-74-2	Di-n-butyl phthalate	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	24	U
51-28-5	2,4-Dinitrophenol	24	U
121-14-2	2,4-Dinitrotoluene	9.5	U
606-20-2	2,6-Dinitrotoluene	9.5	U
117-84-0	Di-n-octyl phthalate	9.5	U
206-44-0	Fluoranthene	9.5	U
86-73-7	Fluorene	9.5	U
118-74-1	Hexachlorobenzene	9.5	U
87-68-3	Hexachlorobutadiene	9.5	U
77-47-4	Hexachlorocyclopentadiene	9.5	U
67-72-1	Hexachloroethane	9.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.5	U
78-59-1	Isophorone	9.5	U
91-57-6	2-Methylnaphthalene	9.5	U
95-48-7	2-Methylphenol	9.5	U
106-44-5	4-Methylphenol	9.5	U
91-20-3	Naphthalene	9.5	U
88-74-4	2-Nitroaniline	24	U
99-09-2	3-Nitroaniline	24	U
100-01-6	4-Nitroaniline	24	U
98-95-3	Nitrobenzene	9.5	U
88-75-5	2-Nitrophenol	9.5	U
100-02-7	4-Nitrophenol	24	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 007
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD461AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW01-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
621-64-7	N-Nitrosodi-n-propylamine	9.5	U
86-30-6	N-Nitrosodiphenylamine	9.5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9.5	U
87-86-5	Pentachlorophenol	24	U
85-01-8	Phenanthrene	9.5	U
108-95-2	Phenol	9.5	U
129-00-0	Pyrene	9.5	U
95-95-4	2,4,5-Trichlorophenol	24	U
88-06-2	2,4,6-Trichlorophenol	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID: C4G010284 007
Method: OCLP OLM04.2
Pesticide/PCBs Compounds - CLP (OLM04.2)

Sample WT/Vol: 1060 / mL Date Received: 07/01/04
Work Order: GKD461AG Date Extracted: 07/02/04
Dilution factor: 0.94 Date Analyzed: 07/24/04
Moisture %: NA

QC Batch: 4184418

Client Sample Id: NP-MW01-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.047	U
319-85-7	beta-BHC	0.047	U
319-86-8	delta-BHC	0.047	U
58-89-9	gamma-BHC (Lindane)	0.047	U
76-44-8	Heptachlor	0.047	U
309-00-2	Aldrin	0.047	U
1024-57-3	Heptachlor epoxide	0.047	U
959-98-8	Endosulfan I	0.047	U
60-57-1	Dieldrin	0.094	U
72-55-9	4,4'-DDE	0.094	U
72-20-8	Endrin	0.094	U
33213-65-9	Endosulfan II	0.094	U
72-54-8	4,4'-DDD	0.094	U
1031-07-8	Endosulfan sulfate	0.094	U
50-29-3	4,4'-DDT	0.094	U
72-43-5	Methoxychlor	0.47	U
53494-70-5	Endrin ketone	0.094	U
7421-93-4	Endrin aldehyde	0.094	U
5103-71-9	alpha-Chlordane	0.047	U
5103-74-2	gamma-Chlordane	0.047	U
8001-35-2	Toxaphene	4.7	U
12674-11-2	Aroclor 1016	0.94	U
11104-28-2	Aroclor 1221	1.9	U
11141-16-5	Aroclor 1232	0.94	U
53469-21-9	Aroclor 1242	0.94	U
12672-29-6	Aroclor 1248	0.94	U
11097-69-1	Aroclor 1254	0.94	U
11096-82-5	Aroclor 1260	0.94	U

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD46 **Client ID:** NP-MW01-0604

Matrix: Water **Units:** ug/L **Prep Date:** 7/6/2004 **Prep Batch:** 4188022

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	**308.22**	**13.0**	**200**	**236**		**1**	**ICPST**	**7/19/2004**	**9:54**
Antimony	206.84	2.2	60.0	2.2	U	1	ICPST	7/19/2004	9:54
Arsenic	189.04	2.0	10.0	2.0	U	1	ICPST	7/19/2004	9:54
Barium	**493.41**	**0.18**	**200**	**29.1**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Beryllium	**313.04**	**0.14**	**5.0**	**0.32**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Cadmium	**226.50**	**0.29**	**5.0**	**0.71**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Calcium	**317.93**	**12.8**	**5000**	**4520**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Chromium	**267.72**	**0.55**	**10.0**	**26.9**		**1**	**ICPST**	**7/19/2004**	**9:54**
Cobalt	**228.62**	**0.30**	**50.0**	**11.8**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Copper	**324.75**	**0.51**	**25.0**	**40.7**		**1**	**ICPST**	**7/19/2004**	**9:54**
Iron	**271.44**	**13.2**	**100**	**261**		**1**	**ICPST**	**7/19/2004**	**9:54**
Lead	**220.35**	**1.5**	**3.0**	**1.9**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Magnesium	**279.08**	**12.9**	**5000**	**1310**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Manganese	**257.61**	**0.19**	**15.0**	**99.5**		**1**	**ICPST**	**7/19/2004**	**9:54**
Nickel	**231.60**	**0.63**	**40.0**	**19.5**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Potassium	**766.49**	**8.0**	**5000**	**641**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Selenium	220.35	1.7	5.0	1.7	U	1	ICPST	7/19/2004	9:54
Silver	**328.07**	**0.36**	**10.0**	**0.62**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Sodium	**330.23**	**103**	**5000**	**3350**	**B**	**1**	**ICPST**	**7/19/2004**	**9:54**
Thallium	190.86	2.8	10.0	2.8	U	1	ICPST	7/19/2004	9:54
Vanadium	292.40	0.44	50.0	0.44	U	1	ICPST	7/19/2004	9:54
Zinc	**206.2**	**0.44**	**20.0**	**51.1**		**1**	**ICPST**	**7/19/2004**	**9:54**

Comments: Lot #: C4G010284 Sample #: 7Color: pre-colorless, post- colorless. Clarity: pre clear, post- clear.

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD46 **Client ID:** NP-MW01-0604

Matrix: Water **Units:** ug/L **Prep Date:** 7/19/2004 **Prep Batch:** 4201034

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.047	0.20	0.047	B	1	CVAA	7/19/2004	10:39

Comments: Lot #: C4G010284 Sample #: 7

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 001
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKDXM1A3 Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-MW04-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 001
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKDXM1A3 Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-MW04-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
108-87-2	Methylcyclohexane	10	U
108-10-1	4-Methyl-2-pentanone	10	U
1634-04-4	Methyl tert-butyl ether	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
127-18-4	Tetrachloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-triflu	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	95	(88 - 110)
Bromofluorobenzene	92	(86 - 115)
1,2-Dichloroethane-d4	108	(76 - 114)

FORM I

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 001
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL
Work Order: GKDXM1A4
Dilution factor: 0.95
Moisture %:NA

Date Received: 07/01/04
Date Extracted:07/02/04
Date Analyzed: 07/12/04

QC Batch: 4184098

Client Sample Id: NP-MW04-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	9.5	U
208-96-8	Acenaphthylene	9.5	U
98-86-2	Acetophenone	9.5	U
120-12-7	Anthracene	9.5	U
1912-24-9	Atrazine	9.5	U
56-55-3	Benzo(a)anthracene	9.5	U
50-32-8	Benzo(a)pyrene	9.5	U
205-99-2	Benzo(b)fluoranthene	9.5	U
191-24-2	Benzo(ghi)perylene	9.5	U
207-08-9	Benzo(k)fluoranthene	9.5	U
100-52-7	Benzaldehyde	9.5	U
92-52-4	1,1'-Biphenyl	9.5	U
111-91-1	bis(2-Chloroethoxy)methane	9.5	U
111-44-4	bis(2-Chloroethyl) ether	9.5	U
117-81-7	bis(2-Ethylhexyl) phthalate	3.9	J
101-55-3	4-Bromophenyl phenyl ether	9.5	U
85-68-7	Butyl benzyl phthalate	9.5	U
105-60-2	Caprolactam	9.5	U
86-74-8	Carbazole	9.5	U
106-47-8	4-Chloroaniline	9.5	U
59-50-7	4-Chloro-3-methylphenol	9.5	U
91-58-7	2-Chloronaphthalene	9.5	U
95-57-8	2-Chlorophenol	9.5	U
7005-72-3	4-Chlorophenyl phenyl ether	9.5	U
218-01-9	Chrysene	9.5	U
53-70-3	Dibenz(a,h)anthracene	9.5	U
132-64-9	Dibenzofuran	9.5	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 001
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKDXM1A4 Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW04-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
120-83-2	2,4-Dichlorophenol	9.5	U
84-66-2	Diethyl phthalate	9.5	U
105-67-9	2,4-Dimethylphenol	9.5	U
131-11-3	Dimethyl phthalate	9.5	U
84-74-2	Di-n-butyl phthalate	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	24	U
51-28-5	2,4-Dinitrophenol	24	U
121-14-2	2,4-Dinitrotoluene	9.5	U
606-20-2	2,6-Dinitrotoluene	9.5	U
117-84-0	Di-n-octyl phthalate	9.5	U
206-44-0	Fluoranthene	9.5	U
86-73-7	Fluorene	9.5	U
118-74-1	Hexachlorobenzene	9.5	U
87-68-3	Hexachlorobutadiene	9.5	U
77-47-4	Hexachlorocyclopentadiene	9.5	U
67-72-1	Hexachloroethane	9.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.5	U
78-59-1	Isophorone	9.5	U
91-57-6	2-Methylnaphthalene	9.5	U
95-48-7	2-Methylphenol	9.5	U
106-44-5	4-Methylphenol	9.5	U
91-20-3	Naphthalene	9.5	U
88-74-4	2-Nitroaniline	24	U
99-09-2	3-Nitroaniline	24	U
100-01-6	4-Nitroaniline	24	U
98-95-3	Nitrobenzene	9.5	U
88-75-5	2-Nitrophenol	9.5	U
100-02-7	4-Nitrophenol	24	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 001
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKDXM1A4 Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW04-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
621-64-7	N-Nitrosodi-n-propylamine	9.5	U
86-30-6	N-Nitrosodiphenylamine	9.5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9.5	U
87-86-5	Pentachlorophenol	24	U
85-01-8	Phenanthrene	9.5	U
108-95-2	Phenol	9.5	U
129-00-0	Pyrene	9.5	U
95-95-4	2,4,5-Trichlorophenol	24	U
88-06-2	2,4,6-Trichlorophenol	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID: C4G010284 001
Method: OCLP OLM04.2
Pesticide/PCBs Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKDXM1A5 Date Extracted: 07/02/04
Dilution factor: 0.95 Date Analyzed: 07/24/04
Moisture %: NA

QC Batch: 4184418

Client Sample Id: NP-MW04-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor 1016	0.95	U
11104-28-2	Aroclor 1221	1.9	U
11141-16-5	Aroclor 1232	0.95	U
53469-21-9	Aroclor 1242	0.95	U
12672-29-6	Aroclor 1248	0.95	U
11097-69-1	Aroclor 1254	0.95	U
11096-82-5	Aroclor 1260	0.95	U

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKDXM **Client ID:** NP-MW04-0604

Matrix: Water **Units:** ug/L **Prep Date:** 7/6/2004 **Prep Batch:** 4188022

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	**308.22**	**13.0**	**200**	**222**		**1**	**ICPST**	**7/19/2004**	**10:39**
Antimony	206.84	2.2	60.0	2.2	U	1	ICPST	7/19/2004	10:39
Arsenic	189.04	2.0	10.0	2.0	U	1	ICPST	7/19/2004	10:39
Barium	**493.41**	**0.18**	**200**	**22.5**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Beryllium	**313.04**	**0.14**	**5.0**	**0.64**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Cadmium	226.50	0.29	5.0	0.29	U	1	ICPST	7/19/2004	10:39
Calcium	**317.93**	**12.8**	**5000**	**961**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Chromium	**267.72**	**0.55**	**10.0**	**2.1**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Cobalt	**228.62**	**0.30**	**50.0**	**0.34**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Copper	**324.75**	**0.51**	**25.0**	**3.2**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Iron	**271.44**	**13.2**	**100**	**30.6**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Lead	220.35	1.5	3.0	1.5	U	1	ICPST	7/19/2004	10:39
Magnesium	**279.08**	**12.9**	**5000**	**1230**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Manganese	**257.61**	**0.19**	**15.0**	**34.1**		**1**	**ICPST**	**7/19/2004**	**10:39**
Nickel	**231.60**	**0.63**	**40.0**	**2.6**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Potassium	**766.49**	**8.0**	**5000**	**379**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Selenium	220.35	1.7	5.0	1.7	U	1	ICPST	7/19/2004	10:39
Silver	**328.07**	**0.36**	**10.0**	**0.37**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Sodium	**330.23**	**103**	**5000**	**4770**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**
Thallium	190.86	2.8	10.0	2.8	U	1	ICPST	7/19/2004	10:39
Vanadium	292.40	0.44	50.0	0.44	U	1	ICPST	7/19/2004	10:39
Zinc	**206.2**	**0.44**	**20.0**	**7.8**	**B**	**1**	**ICPST**	**7/19/2004**	**10:39**

Comments: Lot #: C4G010284 Sample #: 1Color: pre-colorless, post- colorless. Clarity: pre clear, post- clear.

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKDXM **Client ID:** NP-MW04-0604

Matrix: Water **Units:** ug/L **Prep Date:** 7/19/2004 **Prep Batch:** 4201034

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.047	0.20	0.047	U	1	CVAA	7/19/2004	10:24

Comments: Lot #: C4G010284 Sample #: 1

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 003
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD4X1AL Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-MW05-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 003
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD4X1AL Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-MW05-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
108-87-2	Methylcyclohexane	10	U
108-10-1	4-Methyl-2-pentanone	10	U
1634-04-4	Methyl tert-butyl ether	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
127-18-4	Tetrachloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-triflu	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	93	(88 - 110)
Bromofluorobenzene	92	(86 - 115)
1,2-Dichloroethane-d4	109	(76 - 114)

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 003
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 970 / mL Date Received: 07/01/04
Work Order: GKD4X1AP Date Extracted:07/02/04
Dilution factor: 1.03 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW05-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
120-12-7	Anthracene	10	U
1912-24-9	Atrazine	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
100-52-7	Benzaldehyde	10	U
92-52-4	1,1'-Biphenyl	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.8	J
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
105-60-2	Caprolactam	10	U
86-74-8	Carbazole	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U

Southern University

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 003
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 970 / mL Date Received: 07/01/04
Work Order: GKD4X1AP Date Extracted:07/02/04
Dilution factor: 1.03 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW05-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
84-74-2	Di-n-butyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
51-28-5	2,4-Dinitrophenol	26	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
117-84-0	Di-n-octyl phthalate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	26	U
99-09-2	3-Nitroaniline	26	U
100-01-6	4-Nitroaniline	26	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	26	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 003
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 970 / mL Date Received: 07/01/04
Work Order: GKD4X1AP Date Extracted:07/02/04
Dilution factor: 1.03 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW05-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
88-06-2	2,4,6-Trichlorophenol	10	U

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

Matrix: (soil/water) WATER Lab Sample ID: C4G010284 003
Method: OCLP OLM04.2
Pesticide/PCBs Compounds - CLP (OLM04.2)

Sample WT/Vol: 1000 / mL Date Received: 07/01/04
Work Order: GKD4X1AT Date Extracted: 07/02/04
Dilution factor: 1 Date Analyzed: 07/24/04
Moisture %: NA

QC Batch: 4184418

Client Sample Id: NP-MW05-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD4X **Client ID:** NP-MW05-0604

Matrix: Water **Units:** ug/L **Prep Date:** 7/6/2004 **Prep Batch:** 4188022

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	**308.22**	**13.0**	**200**	**537**		**1**	**ICPST**	**7/19/2004**	**10:05**
Antimony	206.84	2.2	60.0	2.2	U	1	ICPST	7/19/2004	10:05
Arsenic	189.04	2.0	10.0	2.0	U	1	ICPST	7/19/2004	10:05
Barium	**493.41**	**0.18**	**200**	**15.3**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Beryllium	**313.04**	**0.14**	**5.0**	**0.21**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Cadmium	226.50	0.29	5.0	0.29	U	1	ICPST	7/19/2004	10:05
Calcium	**317.93**	**12.8**	**5000**	**11100**		**1**	**ICPST**	**7/19/2004**	**10:05**
Chromium	**267.72**	**0.55**	**10.0**	**2.3**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Cobalt	**228.62**	**0.30**	**50.0**	**1.2**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Copper	**324.75**	**0.51**	**25.0**	**1.1**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Iron	**271.44**	**13.2**	**100**	**865**		**1**	**ICPST**	**7/19/2004**	**10:05**
Lead	220.35	1.5	3.0	1.5	U	1	ICPST	7/19/2004	10:05
Magnesium	**279.08**	**12.9**	**5000**	**1190**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Manganese	**257.61**	**0.19**	**15.0**	**38.2**		**1**	**ICPST**	**7/19/2004**	**10:05**
Nickel	**231.60**	**0.63**	**40.0**	**1.2**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Potassium	**766.49**	**8.0**	**5000**	**290**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Selenium	220.35	1.7	5.0	1.7	U	1	ICPST	7/19/2004	10:05
Silver	328.07	0.36	10.0	0.36	U	1	ICPST	7/19/2004	10:05
Sodium	**330.23**	**103**	**5000**	**4110**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Thallium	190.86	2.8	10.0	2.8	U	1	ICPST	7/19/2004	10:05
Vanadium	**292.40**	**0.44**	**50.0**	**4.0**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**
Zinc	**206.2**	**0.44**	**20.0**	**4.1**	**B**	**1**	**ICPST**	**7/19/2004**	**10:05**

Comments: Lot #: C4G010284 Sample #: 3Color: pre-colorless, post- colorless. Clarity: pre clear, post- clear.

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD4X **Client ID:** NP-MW05-0604

Matrix: Water **Units:** ug/L **Prep Date:** 7/19/2004 **Prep Batch:** 4201034

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.047	0.20	0.047	U	1	CVAA	7/19/2004	10:27

Comments: Lot #: C4G010284 Sample #: 3

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 006
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD451AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-MW06-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 006
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD451AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-MW06-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
108-87-2	Methylcyclohexane	10	U
108-10-1	4-Methyl-2-pentanone	10	U
1634-04-4	Methyl tert-butyl ether	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
127-18-4	Tetrachloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-triflu	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	95	(88 - 110)
Bromofluorobenzene	91	(86 - 115)
1,2-Dichloroethane-d4	109	(76 - 114)

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 006
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 800 / mL Date Received: 07/01/04
Work Order: GKD451AF Date Extracted:07/02/04
Dilution factor: 1.25 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW06-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L		Q
83-32-9	Acenaphthene	12		U
208-96-8	Acenaphthylene	12		U
98-86-2	Acetophenone	12		U
120-12-7	Anthracene	12		U
1912-24-9	Atrazine	12		U
56-55-3	Benzo(a)anthracene	12		U
50-32-8	Benzo(a)pyrene	12		U
205-99-2	Benzo(b)fluoranthene	12		U
191-24-2	Benzo(ghi)perylene	12		U
207-08-9	Benzo(k)fluoranthene	12		U
100-52-7	Benzaldehyde	12		U
92-52-4	1,1'-Biphenyl	12		U
111-91-1	bis(2-Chloroethoxy)methane	12		U
111-44-4	bis(2-Chloroethyl) ether	12		U
117-81-7	bis(2-Ethylhexyl) phthalate	12		U
101-55-3	4-Bromophenyl phenyl ether	12		U
85-68-7	Butyl benzyl phthalate	12		U
105-60-2	Caprolactam	12		U
86-74-8	Carbazole	12		U
106-47-8	4-Chloroaniline	12		U
59-50-7	4-Chloro-3-methylphenol	12		U
91-58-7	2-Chloronaphthalene	12		U
95-57-8	2-Chlorophenol	12		U
7005-72-3	4-Chlorophenyl phenyl ether	12		U
218-01-9	Chrysene	12		U
53-70-3	Dibenz(a,h)anthracene	12		U
132-64-9	Dibenzofuran	12		U
91-94-1	3,3'-Dichlorobenzidine	12		U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 006
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 800 / mL Date Received: 07/01/04
Work Order: GKD451AF Date Extracted:07/02/04
Dilution factor: 1.25 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW06-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
120-83-2	2,4-Dichlorophenol	12	U
84-66-2	Diethyl phthalate	12	U
105-67-9	2,4-Dimethylphenol	12	U
131-11-3	Dimethyl phthalate	12	U
84-74-2	Di-n-butyl phthalate	12	U
534-52-1	4,6-Dinitro-2-methylphenol	31	U
51-28-5	2,4-Dinitrophenol	31	U
121-14-2	2,4-Dinitrotoluene	12	U
606-20-2	2,6-Dinitrotoluene	12	U
117-84-0	Di-n-octyl phthalate	12	U
206-44-0	Fluoranthene	12	U
86-73-7	Fluorene	12	U
118-74-1	Hexachlorobenzene	12	U
87-68-3	Hexachlorobutadiene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
67-72-1	Hexachloroethane	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
78-59-1	Isophorone	12	U
91-57-6	2-Methylnaphthalene	12	U
95-48-7	2-Methylphenol	12	U
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
88-74-4	2-Nitroaniline	31	U
99-09-2	3-Nitroaniline	31	U
100-01-6	4-Nitroaniline	31	U
98-95-3	Nitrobenzene	12	U
88-75-5	2-Nitrophenol	12	U
100-02-7	4-Nitrophenol	31	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 006
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 800 / mL Date Received: 07/01/04
Work Order: GKD451AF Date Extracted:07/02/04
Dilution factor: 1.25 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-MW06-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
621-64-7	N-Nitrosodi-n-propylamine	12	U
86-30-6	N-Nitrosodiphenylamine	12	U
108-60-1	2,2'-oxybis(1-Chloropropane)	12	U
87-86-5	Pentachlorophenol	31	U
85-01-8	Phenanthrene	12	U
108-95-2	Phenol	12	U
129-00-0	Pyrene	12	U
95-95-4	2,4,5-Trichlorophenol	31	U
88-06-2	2,4,6-Trichlorophenol	12	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 006
Method: OCLP OLM04.2
Pesticide/PCBs Compounds - CLP (OLM04.2)

Sample WT/Vol: 1060 / mL
Work Order: GKD451AG
Dilution factor: 0.94
Moisture %:NA

Date Received: 07/01/04
Date Extracted:07/02/04
Date Analyzed: 07/24/04

QC Batch: 4184418

Client Sample Id: NP-MW06-0604

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.047	U
319-85-7	beta-BHC	0.047	U
319-86-8	delta-BHC	0.047	U
58-89-9	gamma-BHC (Lindane)	0.047	U
76-44-8	Heptachlor	0.047	U
309-00-2	Aldrin	0.047	U
1024-57-3	Heptachlor epoxide	0.047	U
959-98-8	Endosulfan I	0.047	U
60-57-1	Dieldrin	0.094	U
72-55-9	4,4'-DDE	0.094	U
72-20-8	Endrin	0.094	U
33213-65-9	Endosulfan II	0.094	U
72-54-8	4,4'-DDD	0.094	U
1031-07-8	Endosulfan sulfate	0.094	U
50-29-3	4,4'-DDT	0.094	U
72-43-5	Methoxychlor	0.47	U
53494-70-5	Endrin ketone	0.094	U
7421-93-4	Endrin aldehyde	0.094	U
5103-71-9	alpha-Chlordane	0.047	U
5103-74-2	gamma-Chlordane	0.047	U
8001-35-2	Toxaphene	4.7	U
12674-11-2	Aroclor 1016	0.94	U
11104-28-2	Aroclor 1221	1.9	U
11141-16-5	Aroclor 1232	0.94	U
53469-21-9	Aroclor 1242	0.94	U
12672-29-6	Aroclor 1248	0.94	U
11097-69-1	Aroclor 1254	0.94	U
11096-82-5	Aroclor 1260	0.94	U

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD45 **Client ID:** NP-MW06-0604

Matrix: Water **Units:** ug/L **Prep Date:** 7/6/2004 **Prep Batch:** 4188022

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	**308.22**	**13.0**	**200**	**320**		**1**	**ICPST**	**7/19/2004**	**9:49**
Antimony	206.84	2.2	60.0	2.2	U	1	ICPST	7/19/2004	9:49
Arsenic	189.04	2.0	10.0	2.0	U	1	ICPST	7/19/2004	9:49
Barium	**493.41**	**0.18**	**200**	**2.6**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Beryllium	313.04	0.14	5.0	0.14	U	1	ICPST	7/19/2004	9:49
Cadmium	**226.50**	**0.29**	**5.0**	**0.99**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Calcium	**317.93**	**12.8**	**5000**	**6060**		**1**	**ICPST**	**7/19/2004**	**9:49**
Chromium	**267.72**	**0.55**	**10.0**	**1.4**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Cobalt	228.62	0.30	50.0	0.30	U	1	ICPST	7/19/2004	9:49
Copper	**324.75**	**0.51**	**25.0**	**1.4**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Iron	**271.44**	**13.2**	**100**	**2420**		**1**	**ICPST**	**7/19/2004**	**9:49**
Lead	220.35	1.5	3.0	1.5	U	1	ICPST	7/19/2004	9:49
Magnesium	**279.08**	**12.9**	**5000**	**1220**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Manganese	**257.61**	**0.19**	**15.0**	**55.3**		**1**	**ICPST**	**7/19/2004**	**9:49**
Nickel	**231.60**	**0.63**	**40.0**	**1.1**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Potassium	**766.49**	**8.0**	**5000**	**124**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Selenium	220.35	1.7	5.0	1.7	U	1	ICPST	7/19/2004	9:49
Silver	328.07	0.36	10.0	0.36	U	1	ICPST	7/19/2004	9:49
Sodium	**330.23**	**103**	**5000**	**3980**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Thallium	**190.86**	**2.8**	**10.0**	**3.4**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Vanadium	**292.40**	**0.44**	**50.0**	**2.1**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**
Zinc	**206.2**	**0.44**	**20.0**	**9.5**	**B**	**1**	**ICPST**	**7/19/2004**	**9:49**

Comments: Lot #: C4G010284 Sample #: 6Color: pre-colorless, post- colorless. Clarity: pre clear, post- clear.

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD45 **Client ID:** NP-MW06-0604

Matrix: Water **Units:** ug/L **Prep Date:** 7/19/2004 **Prep Batch:** 4201034

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.047	0.20	0.047	U	1	CVAA	7/19/2004	10:34

Comments: Lot #: C4G010284 Sample #: 6

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 004
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD421AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-DUP-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 004
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD421AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: NP-DUP-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
108-87-2	Methylcyclohexane	10	U
108-10-1	4-Methyl-2-pentanone	10	U
1634-04-4	Methyl tert-butyl ether	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
127-18-4	Tetrachloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-triflu	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	92	(88 - 110)
Bromofluorobenzene	94	(86 - 115)
1,2-Dichloroethane-d4	108	(76 - 114)

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 004
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD421AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-DUP-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	9.5	U
208-96-8	Acenaphthylene	9.5	U
98-86-2	Acetophenone	9.5	U
120-12-7	Anthracene	9.5	U
1912-24-9	Atrazine	9.5	U
56-55-3	Benzo(a)anthracene	9.5	U
50-32-8	Benzo(a)pyrene	9.5	U
205-99-2	Benzo(b)fluoranthene	9.5	U
191-24-2	Benzo(ghi)perylene	9.5	U
207-08-9	Benzo(k)fluoranthene	9.5	U
100-52-7	Benzaldehyde	9.5	U
92-52-4	1,1'-Biphenyl	9.5	U
111-91-1	bis(2-Chloroethoxy)methane	9.5	U
111-44-4	bis(2-Chloroethyl) ether	9.5	U
117-81-7	bis(2-Ethylhexyl) phthalate	11	
101-55-3	4-Bromophenyl phenyl ether	9.5	U
85-68-7	Butyl benzyl phthalate	9.5	U
105-60-2	Caprolactam	9.5	U
86-74-8	Carbazole	9.5	U
106-47-8	4-Chloroaniline	9.5	U
59-50-7	4-Chloro-3-methylphenol	9.5	U
91-58-7	2-Chloronaphthalene	9.5	U
95-57-8	2-Chlorophenol	9.5	U
7005-72-3	4-Chlorophenyl phenyl ether	9.5	U
218-01-9	Chrysene	9.5	U
53-70-3	Dibenz(a,h)anthracene	9.5	U
132-64-9	Dibenzofuran	9.5	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 004
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD421AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-DUP-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
120-83-2	2,4-Dichlorophenol	9.5	U
84-66-2	Diethyl phthalate	9.5	U
105-67-9	2,4-Dimethylphenol	9.5	U
131-11-3	Dimethyl phthalate	9.5	U
84-74-2	Di-n-butyl phthalate	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	24	U
51-28-5	2,4-Dinitrophenol	24	U
121-14-2	2,4-Dinitrotoluene	9.5	U
606-20-2	2,6-Dinitrotoluene	9.5	U
117-84-0	Di-n-octyl phthalate	9.5	U
206-44-0	Fluoranthene	9.5	U
86-73-7	Fluorene	9.5	U
118-74-1	Hexachlorobenzene	9.5	U
87-68-3	Hexachlorobutadiene	9.5	U
77-47-4	Hexachlorocyclopentadiene	9.5	U
67-72-1	Hexachloroethane	9.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.5	U
78-59-1	Isophorone	9.5	U
91-57-6	2-Methylnaphthalene	9.5	U
95-48-7	2-Methylphenol	9.5	U
106-44-5	4-Methylphenol	9.5	U
91-20-3	Naphthalene	9.5	U
88-74-4	2-Nitroaniline	24	U
99-09-2	3-Nitroaniline	24	U
100-01-6	4-Nitroaniline	24	U
98-95-3	Nitrobenzene	9.5	U
88-75-5	2-Nitrophenol	9.5	U
100-02-7	4-Nitrophenol	24	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 004
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD421AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: NP-DUP-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
621-64-7	N-Nitrosodi-n-propylamine	9.5	U
86-30-6	N-Nitrosodiphenylamine	9.5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9.5	U
87-86-5	Pentachlorophenol	24	U
85-01-8	Phenanthrene	9.5	U
108-95-2	Phenol	9.5	U
129-00-0	Pyrene	9.5	U
95-95-4	2,4,5-Trichlorophenol	24	U
88-06-2	2,4,6-Trichlorophenol	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 004
Method: OCLP OLM04.2
Pesticide/PCBs Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD421AG Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/24/04
Moisture %:NA

QC Batch: 4184418

Client Sample Id: NP-DUP-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.082	J
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor 1016	0.95	U
11104-28-2	Aroclor 1221	1.9	U
11141-16-5	Aroclor 1232	0.95	U
53469-21-9	Aroclor 1242	0.95	U
12672-29-6	Aroclor 1248	0.95	U
11097-69-1	Aroclor 1254	0.95	U
11096-82-5	Aroclor 1260	0.95	U

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD42 **Client ID:** NP-DUP-01

Matrix: Water **Units:** ug/L **Prep Date:** 7/6/2004 **Prep Batch:** 4188022

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	**308.22**	**13.0**	**200**	**209**		**1**	**ICPST**	**7/19/2004**	**9:38**
Antimony	206.84	2.2	60.0	2.2	U	1	ICPST	7/19/2004	9:38
Arsenic	189.04	2.0	10.0	2.0	U	1	ICPST	7/19/2004	9:38
Barium	**493.41**	**0.18**	**200**	**22.2**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Beryllium	**313.04**	**0.14**	**5.0**	**0.68**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Cadmium	226.50	0.29	5.0	0.29	U	1	ICPST	7/19/2004	9:38
Calcium	**317.93**	**12.8**	**5000**	**948**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Chromium	**267.72**	**0.55**	**10.0**	**2.0**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Cobalt	228.62	0.30	50.0	0.30	U	1	ICPST	7/19/2004	9:38
Copper	**324.75**	**0.51**	**25.0**	**3.0**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Iron	**271.44**	**13.2**	**100**	**21.3**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Lead	220.35	1.5	3.0	1.5	U	1	ICPST	7/19/2004	9:38
Magnesium	**279.08**	**12.9**	**5000**	**1210**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Manganese	**257.61**	**0.19**	**15.0**	**33.7**		**1**	**ICPST**	**7/19/2004**	**9:38**
Nickel	**231.60**	**0.63**	**40.0**	**1.6**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Potassium	**766.49**	**8.0**	**5000**	**379**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Selenium	220.35	1.7	5.0	1.7	U	1	ICPST	7/19/2004	9:38
Silver	328.07	0.36	10.0	0.36	U	1	ICPST	7/19/2004	9:38
Sodium	**330.23**	**103**	**5000**	**4720**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Thallium	**190.86**	**2.8**	**10.0**	**5.5**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**
Vanadium	292.40	0.44	50.0	0.44	U	1	ICPST	7/19/2004	9:38
Zinc	**206.2**	**0.44**	**20.0**	**7.0**	**B**	**1**	**ICPST**	**7/19/2004**	**9:38**

Comments: Lot #: C4G010284 Sample #: 4Color: pre-colorless, post- colorless. Clarity: pre clear, post- clear.

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD42 **Client ID:** NP-DUP-01

Matrix: Water **Units:** ug/L **Prep Date:** 7/19/2004 **Prep Batch:** 4201034

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.047	0.20	0.071	B	1	CVAA	7/19/2004	10:31

Comments: Lot #: C4G010284 Sample #: 4

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 008
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD481AA Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: TB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 008
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD481AA Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: TB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
108-87-2	Methylcyclohexane	10	U
108-10-1	4-Methyl-2-pentanone	10	U
1634-04-4	Methyl tert-butyl ether	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
127-18-4	Tetrachloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-triflu	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	94	(88 - 110)
Bromofluorobenzene	92	(86 - 115)
1,2-Dichloroethane-d4	108	(76 - 114)

FORM I

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 002
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD4T1AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: RB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 002
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD4T1AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: RB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
108-87-2	Methylcyclohexane	10	U
108-10-1	4-Methyl-2-pentanone	10	U
1634-04-4	Methyl tert-butyl ether	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
127-18-4	Tetrachloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-triflu	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	99	(88 - 110)
Bromofluorobenzene	96	(86 - 115)
1,2-Dichloroethane-d4	114	(76 - 114)

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 002
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD4T1AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: RB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	9.5	U
208-96-8	Acenaphthylene	9.5	U
98-86-2	Acetophenone	9.5	U
120-12-7	Anthracene	9.5	U
1912-24-9	Atrazine	9.5	U
56-55-3	Benzo(a)anthracene	9.5	U
50-32-8	Benzo(a)pyrene	9.5	U
205-99-2	Benzo(b)fluoranthene	9.5	U
191-24-2	Benzo(ghi)perylene	9.5	U
207-08-9	Benzo(k)fluoranthene	9.5	U
100-52-7	Benzaldehyde	9.5	U
92-52-4	1,1'-Biphenyl	9.5	U
111-91-1	bis(2-Chloroethoxy)methane	9.5	U
111-44-4	bis(2-Chloroethyl) ether	9.5	U
117-81-7	bis(2-Ethylhexyl) phthalate	3.3	J
101-55-3	4-Bromophenyl phenyl ether	9.5	U
85-68-7	Butyl benzyl phthalate	9.5	U
105-60-2	Caprolactam	9.5	U
86-74-8	Carbazole	9.5	U
106-47-8	4-Chloroaniline	9.5	U
59-50-7	4-Chloro-3-methylphenol	9.5	U
91-58-7	2-Chloronaphthalene	9.5	U
95-57-8	2-Chlorophenol	9.5	U
7005-72-3	4-Chlorophenyl phenyl ether	9.5	U
218-01-9	Chrysene	9.5	U
53-70-3	Dibenz(a,h)anthracene	9.5	U
132-64-9	Dibenzofuran	9.5	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 002
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD4T1AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: RB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
120-83-2	2,4-Dichlorophenol	9.5	U
84-66-2	Diethyl phthalate	9.5	U
105-67-9	2,4-Dimethylphenol	9.5	U
131-11-3	Dimethyl phthalate	9.5	U
84-74-2	Di-n-butyl phthalate	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	24	U
51-28-5	2,4-Dinitrophenol	24	U
121-14-2	2,4-Dinitrotoluene	9.5	U
606-20-2	2,6-Dinitrotoluene	9.5	U
117-84-0	Di-n-octyl phthalate	9.5	U
206-44-0	Fluoranthene	9.5	U
86-73-7	Fluorene	9.5	U
118-74-1	Hexachlorobenzene	9.5	U
87-68-3	Hexachlorobutadiene	9.5	U
77-47-4	Hexachlorocyclopentadiene	9.5	U
67-72-1	Hexachloroethane	9.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.5	U
78-59-1	Isophorone	9.5	U
91-57-6	2-Methylnaphthalene	9.5	U
95-48-7	2-Methylphenol	9.5	U
106-44-5	4-Methylphenol	9.5	U
91-20-3	Naphthalene	9.5	U
88-74-4	2-Nitroaniline	24	U
99-09-2	3-Nitroaniline	24	U
100-01-6	4-Nitroaniline	24	U
98-95-3	Nitrobenzene	9.5	U
88-75-5	2-Nitrophenol	9.5	U
100-02-7	4-Nitrophenol	24	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 002
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD4T1AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: RB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
621-64-7	N-Nitrosodi-n-propylamine	9.5	U
86-30-6	N-Nitrosodiphenylamine	9.5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9.5	U
87-86-5	Pentachlorophenol	24	U
85-01-8	Phenanthrene	9.5	U
108-95-2	Phenol	9.5	U
129-00-0	Pyrene	9.5	U
95-95-4	2,4,5-Trichlorophenol	24	U
88-06-2	2,4,6-Trichlorophenol	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID: C4G010284 002
Method: OCLP OLM04.2
Pesticide/PCBs Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL
Work Order: GKD4T1AG
Dilution factor: 0.95
Moisture %: NA

Date Received: 07/01/04
Date Extracted: 07/02/04
Date Analyzed: 07/24/04

QC Batch: 4184418

Client Sample Id: RB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor 1016	0.95	U
11104-28-2	Aroclor 1221	1.9	U
11141-16-5	Aroclor 1232	0.95	U
53469-21-9	Aroclor 1242	0.95	U
12672-29-6	Aroclor 1248	0.95	U
11097-69-1	Aroclor 1254	0.95	U
11096-82-5	Aroclor 1260	0.95	U

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD4T **Client ID:** RB-062904

Matrix: Water **Units:** ug/L **Prep Date:** 7/6/2004 **Prep Batch:** 4188022

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	13.0	200	13.0	U	1	ICPST	7/19/2004	10:00
Antimony	206.84	2.2	60.0	2.2	U	1	ICPST	7/19/2004	10:00
Arsenic	189.04	2.0	10.0	2.0	U	1	ICPST	7/19/2004	10:00
Barium	493.41	0.18	200	0.18	U	1	ICPST	7/19/2004	10:00
Beryllium	313.04	0.14	5.0	0.14	U	1	ICPST	7/19/2004	10:00
Cadmium	226.50	0.29	5.0	0.29	U	1	ICPST	7/19/2004	10:00
Calcium	317.93	12.8	5000	12.8	U	1	ICPST	7/19/2004	10:00
Chromium	267.72	0.55	10.0	0.55	U	1	ICPST	7/19/2004	10:00
Cobalt	228.62	0.30	50.0	0.30	U	1	ICPST	7/19/2004	10:00
Copper	324.75	0.51	25.0	0.51	U	1	ICPST	7/19/2004	10:00
Iron	271.44	13.2	100	13.2	U	1	ICPST	7/19/2004	10:00
Lead	220.35	1.5	3.0	1.5	U	1	ICPST	7/19/2004	10:00
Magnesium	279.08	12.9	5000	12.9	U	1	ICPST	7/19/2004	10:00
Manganese	257.61	0.19	15.0	0.19	U	1	ICPST	7/19/2004	10:00
Nickel	231.60	0.63	40.0	0.63	U	1	ICPST	7/19/2004	10:00
Potassium	**766.49**	**8.0**	**5000**	**38.8**	**B**	**1**	**ICPST**	**7/19/2004**	**10:00**
Selenium	220.35	1.7	5.0	1.7	U	1	ICPST	7/19/2004	10:00
Silver	328.07	0.36	10.0	0.36	U	1	ICPST	7/19/2004	10:00
Sodium	330.23	103	5000	103	U	1	ICPST	7/19/2004	10:00
Thallium	190.86	2.8	10.0	2.8	U	1	ICPST	7/19/2004	10:00
Vanadium	292.40	0.44	50.0	0.44	U	1	ICPST	7/19/2004	10:00
Zinc	**206.2**	**0.44**	**20.0**	**2.5**	**B**	**1**	**ICPST**	**7/19/2004**	**10:00**

Comments: Lot #: C4G010284 Sample #: 2Color: pre-colorless, post- colorless. Clarity: pre clear, post- clear.

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD4T **Client ID:** RB-062904

Matrix: Water **Units:** ug/L **Prep Date:** 7/19/2004 **Prep Batch:** 4201034

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.047	0.20	0.047	U	1	CVAA	7/19/2004	10:25

Comments: Lot #: C4G010284 Sample #: 2

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 005
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD431AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: FB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 005
Method: OCLP OLM04.2
Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 5 / mL Date Received: 07/01/04
Work Order: GKD431AE Date Extracted:07/07/04
Dilution factor: 1 Date Analyzed: 07/07/04

QC Batch: 4189526

Client Sample Id: FB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
108-87-2	Methylcyclohexane	10	U
108-10-1	4-Methyl-2-pentanone	10	U
1634-04-4	Methyl tert-butyl ether	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
127-18-4	Tetrachloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-triflu	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	97	(88 - 110)
Bromofluorobenzene	94	(86 - 115)
1,2-Dichloroethane-d4	112	(76 - 114)

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 005
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD431AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: FB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	9.5	U
208-96-8	Acenaphthylene	9.5	U
98-86-2	Acetophenone	9.5	U
120-12-7	Anthracene	9.5	U
1912-24-9	Atrazine	9.5	U
56-55-3	Benzo(a)anthracene	9.5	U
50-32-8	Benzo(a)pyrene	9.5	U
205-99-2	Benzo(b)fluoranthene	9.5	U
191-24-2	Benzo(ghi)perylene	9.5	U
207-08-9	Benzo(k)fluoranthene	9.5	U
100-52-7	Benzaldehyde	2.3	J
92-52-4	1,1'-Biphenyl	9.5	U
111-91-1	bis(2-Chloroethoxy)methane	9.5	U
111-44-4	bis(2-Chloroethyl) ether	9.5	U
117-81-7	bis(2-Ethylhexyl) phthalate	2.9	J
101-55-3	4-Bromophenyl phenyl ether	9.5	U
85-68-7	Butyl benzyl phthalate	9.5	U
105-60-2	Caprolactam	9.5	U
86-74-8	Carbazole	9.5	U
106-47-8	4-Chloroaniline	9.5	U
59-50-7	4-Chloro-3-methylphenol	9.5	U
91-58-7	2-Chloronaphthalene	9.5	U
95-57-8	2-Chlorophenol	9.5	U
7005-72-3	4-Chlorophenyl phenyl ether	9.5	U
218-01-9	Chrysene	9.5	U
53-70-3	Dibenz(a,h)anthracene	9.5	U
132-64-9	Dibenzofuran	9.5	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 005
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD431AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: FB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
120-83-2	2,4-Dichlorophenol	9.5	U
84-66-2	Diethyl phthalate	9.5	U
105-67-9	2,4-Dimethylphenol	9.5	U
131-11-3	Dimethyl phthalate	9.5	U
84-74-2	Di-n-butyl phthalate	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	24	U
51-28-5	2,4-Dinitrophenol	24	U
121-14-2	2,4-Dinitrotoluene	9.5	U
606-20-2	2,6-Dinitrotoluene	9.5	U
117-84-0	Di-n-octyl phthalate	9.5	U
206-44-0	Fluoranthene	9.5	U
86-73-7	Fluorene	9.5	U
118-74-1	Hexachlorobenzene	9.5	U
87-68-3	Hexachlorobutadiene	9.5	U
77-47-4	Hexachlorocyclopentadiene	9.5	U
67-72-1	Hexachloroethane	9.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.5	U
78-59-1	Isophorone	9.5	U
91-57-6	2-Methylnaphthalene	9.5	U
95-48-7	2-Methylphenol	9.5	U
106-44-5	4-Methylphenol	9.5	U
91-20-3	Naphthalene	9.5	U
88-74-4	2-Nitroaniline	24	U
99-09-2	3-Nitroaniline	24	U
100-01-6	4-Nitroaniline	24	U
98-95-3	Nitrobenzene	9.5	U
88-75-5	2-Nitrophenol	9.5	U
100-02-7	4-Nitrophenol	24	U

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

Matrix: (soil/water) WATER Lab Sample ID:C4G010284 005
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL Date Received: 07/01/04
Work Order: GKD431AF Date Extracted:07/02/04
Dilution factor: 0.95 Date Analyzed: 07/12/04
Moisture %:NA

QC Batch: 4184098

Client Sample Id: FB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
621-64-7	N-Nitrosodi-n-propylamine	9.5	U
86-30-6	N-Nitrosodiphenylamine	9.5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9.5	U
87-86-5	Pentachlorophenol	24	U
85-01-8	Phenanthrene	9.5	U
108-95-2	Phenol	9.5	U
129-00-0	Pyrene	9.5	U
95-95-4	2,4,5-Trichlorophenol	24	U
88-06-2	2,4,6-Trichlorophenol	9.5	U

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

Matrix: (soil/water) WATER Lab Sample ID: C4G010284 005
Method: OCLP OLM04.2
Pesticide/PCBs Compounds - CLP (OLM04.2)

Sample WT/Vol: 1050 / mL
Work Order: GKD431AG
Dilution factor: 0.95
Moisture %: NA

Date Received: 07/01/04
Date Extracted: 07/02/04
Date Analyzed: 07/24/04

QC Batch: 4184418

Client Sample Id: FB-062904

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor 1016	0.95	U
11104-28-2	Aroclor 1221	1.9	U
11141-16-5	Aroclor 1232	0.95	U
53469-21-9	Aroclor 1242	0.95	U
12672-29-6	Aroclor 1248	0.95	U
11097-69-1	Aroclor 1254	0.95	U
11096-82-5	Aroclor 1260	0.95	U

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD43 **Client ID:** FB-062904

Matrix: Water **Units:** ug/L **Prep Date:** 7/6/2004 **Prep Batch:** 4188022

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	13.0	200	13.0	U	1	ICPST	7/19/2004	9:43
Antimony	206.84	2.2	60.0	2.2	U	1	ICPST	7/19/2004	9:43
Arsenic	189.04	2.0	10.0	2.0	U	1	ICPST	7/19/2004	9:43
Barium	493.41	0.18	200	0.18	U	1	ICPST	7/19/2004	9:43
Beryllium	313.04	0.14	5.0	0.14	U	1	ICPST	7/19/2004	9:43
Cadmium	226.50	0.29	5.0	0.29	U	1	ICPST	7/19/2004	9:43
Calcium	317.93	12.8	5000	12.8	U	1	ICPST	7/19/2004	9:43
Chromium	267.72	0.55	10.0	0.55	U	1	ICPST	7/19/2004	9:43
Cobalt	228.62	0.30	50.0	0.30	U	1	ICPST	7/19/2004	9:43
Copper	324.75	0.51	25.0	0.51	U	1	ICPST	7/19/2004	9:43
Iron	271.44	13.2	100	13.2	U	1	ICPST	7/19/2004	9:43
Lead	220.35	1.5	3.0	1.5	U	1	ICPST	7/19/2004	9:43
Magnesium	**279.08**	**12.9**	**5000**	**13.6**	**B**	**1**	**ICPST**	**7/19/2004**	**9:43**
Manganese	257.61	0.19	15.0	0.19	U	1	ICPST	7/19/2004	9:43
Nickel	231.60	0.63	40.0	0.63	U	1	ICPST	7/19/2004	9:43
Potassium	**766.49**	**8.0**	**5000**	**40.5**	**B**	**1**	**ICPST**	**7/19/2004**	**9:43**
Selenium	220.35	1.7	5.0	1.7	U	1	ICPST	7/19/2004	9:43
Silver	328.07	0.36	10.0	0.36	U	1	ICPST	7/19/2004	9:43
Sodium	330.23	103	5000	103	U	1	ICPST	7/19/2004	9:43
Thallium	190.86	2.8	10.0	2.8	U	1	ICPST	7/19/2004	9:43
Vanadium	292.40	0.44	50.0	0.44	U	1	ICPST	7/19/2004	9:43
Zinc	**206.2**	**0.44**	**20.0**	**1.0**	**B**	**1**	**ICPST**	**7/19/2004**	**9:43**

Comments: Lot #: C4G010284 Sample #: 5Color: pre-colorless, post- colorless. Clarity: pre clear, post- clear.

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: GKD43 **Client ID:** FB-062904

Matrix: Water **Units:** ug/L **Prep Date:** 7/19/2004 **Prep Batch:** 4201034

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.047	0.20	0.047	U	1	CVAA	7/19/2004	10:33

Comments: Lot #: C4G010284 Sample #: 5

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: M

nsample	FB-062904	nsample	NP-DUP-01	nsample	NP-MW01-0604
samp_date	6/29/2004	samp_date	6/29/2004	samp_date	6/29/2004
lab_id	C4G010284005	lab_id	C4G010284004	lab_id	C4G010284007
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	NP-MW04-0604	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	13.0	U	
ANTIMONY	2.2	U	
ARSENIC	2.0	U	
BARIUM	0.18	U	
BERYLLIUM	0.14	U	
CADMIUM	0.29	U	
CALCIUM	12.8	U	
CHROMIUM	0.55	U	
COBALT	0.30	U	
COPPER	0.51	U	
IRON	13.2	U	
LEAD	1.5	UJ	C
MAGNESIUM	13.6		
MANGANESE	0.19	U	
MERCURY	0.047	U	
NICKEL	0.63	U	
POTASSIUM	40.5		
SELENIUM	1.7	U	
SILVER	0.36	U	
SODIUM	103	U	
THALLIUM	2.8	U	
VANADIUM	0.44	U	
ZINC	1.0		

Parameter	Result	Val Qual	Qual Code
ALUMINUM	209		
ANTIMONY	2.2	U	
ARSENIC	2.0	U	
BARIUM	22.2		
BERYLLIUM	0.68		
CADMIUM	0.29	U	
CALCIUM	948		
CHROMIUM	2.0		
COBALT	0.30	U	
COPPER	3.0		
IRON	21.3		
LEAD	1.5	UJ	C
MAGNESIUM	1210		
MANGANESE	33.7		
MERCURY	0.071		
NICKEL	1.6		
POTASSIUM	379		
SELENIUM	1.7	U	
SILVER	0.36	U	
SODIUM	4720		
THALLIUM	5.5		
VANADIUM	0.44	U	
ZINC	7.0		

Parameter	Result	Val Qual	Qual Code
ALUMINUM	236		
ANTIMONY	2.2	U	
ARSENIC	2.0	U	
BARIUM	29.1		
BERYLLIUM	0.32		
CADMIUM	0.71		
CALCIUM	4520		
CHROMIUM	26.9		
COBALT	11.8		
COPPER	40.7		
IRON	261		
LEAD	1.9	J	C
MAGNESIUM	1310		
MANGANESE	99.5		
MERCURY	0.047		
NICKEL	19.5		
POTASSIUM	641		
SELENIUM	1.7	U	
SILVER	0.62		
SODIUM	3350		
THALLIUM	2.8	U	
VANADIUM	0.44	U	
ZINC	51.1		

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: M

nsample	NP-MW04-0604
samp_date	6/29/2004
lab_id	C4G010284001
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	222		
ANTIMONY	2.2	U	
ARSENIC	2.0	U	
BARIUM	22.5		
BERYLLIUM	0.64		
CADMIUM	0.29	U	
CALCIUM	961		
CHROMIUM	2.1		
COBALT	0.34		
COPPER	3.2		
IRON	30.6		
LEAD	1.5	UJ	C
MAGNESIUM	1230		
MANGANESE	34.1		
MERCURY	0.047	U	
NICKEL	2.6		
POTASSIUM	379		
SELENIUM	1.7	U	
SILVER	0.37		
SODIUM	4770		
THALLIUM	2.8	U	
VANADIUM	0.44	U	
ZINC	7.8		

nsample	NP-MW05-0604
samp_date	6/29/2004
lab_id	C4G010284003
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	537		
ANTIMONY	2.2	U	
ARSENIC	2.0	U	
BARIUM	15.3		
BERYLLIUM	0.21		
CADMIUM	0.29	U	
CALCIUM	11100		
CHROMIUM	2.3		
COBALT	1.2		
COPPER	1.1		
IRON	865		
LEAD	1.5	UJ	C
MAGNESIUM	1190		
MANGANESE	38.2		
MERCURY	0.047	U	
NICKEL	1.2		
POTASSIUM	290		
SELENIUM	1.7	U	
SILVER	0.36	U	
SODIUM	4110		
THALLIUM	2.8	U	
VANADIUM	4.0		
ZINC	4.1		

nsample	NP-MW06-0604
samp_date	6/29/2004
lab_id	C4G010284006
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	320		
ANTIMONY	2.2	U	
ARSENIC	2.0	U	
BARIUM	2.6		
BERYLLIUM	0.14	U	
CADMIUM	0.99		
CALCIUM	6060		
CHROMIUM	1.4		
COBALT	0.30	U	
COPPER	1.4		
IRON	2420		
LEAD	1.5	UJ	C
MAGNESIUM	1220		
MANGANESE	55.3		
MERCURY	0.047	U	
NICKEL	1.1		
POTASSIUM	124		
SELENIUM	1.7	U	
SILVER	0.36	U	
SODIUM	3980		
THALLIUM	3.4		
VANADIUM	2.1		
ZINC	9.5		

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: M

nsample	RB-062904
samp_date	6/29/2004
lab_id	C4G010284002
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	13.0	U	
ANTIMONY	2.2	U	
ARSENIC	2.0	U	
BARIUM	0.18	U	
BERYLLIUM	0.14	U	
CADMIUM	0.29	U	
CALCIUM	12.8	U	
CHROMIUM	0.55	U	
COBALT	0.30	U	
COPPER	0.51	U	
IRON	13.2	U	
LEAD	1.5	UJ	C
MAGNESIUM	12.9	U	
MANGANESE	0.19	U	
MERCURY	0.047	U	
NICKEL	0.63	U	
POTASSIUM	38.8		
SELENIUM	1.7	U	
SILVER	0.36	U	
SODIUM	103	U	
THALLIUM	2.8	U	
VANADIUM	0.44	U	
ZINC	2.5		

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: MISC

nsample	FB-062904	nsample	NP-DUP-01	nsample	NP-MW01-0604
samp_date	6/29/2004	samp_date	6/29/2004	samp_date	6/29/2004
lab_id	C4G010284005	lab_id	C4G010284004	lab_id	C4G010284007
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	NP-MW04-0604	DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	UG/L	7.0		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	UG/L	4.0		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	UG/L	3.0		

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: MISC

nsample	NP-MW04-0604	nsample	NP-MW05-0604	nsample	NP-MW06-0604
samp_date	6/29/2004	samp_date	6/29/2004	samp_date	6/29/2004
lab_id	C4G010284001	lab_id	C4G010284003	lab_id	C4G010284006
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	UG/L	5.0		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	UG/L	3.0		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	UG/L	3.0		

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: MISC

nsample	RB-062904
samp_date	6/29/2004
lab_id	C4G010284002
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	UG/L	4.0		

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OV

nsample	FB-062904
samp_date	6/29/2004
lab_id	C4G010284005
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	10	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	10	UR	C
1,2-DIBROMOETHANE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	10	U	
1,2-DICHLOROPROPANE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2-BUTANONE	10	UJ	C
2-HEXANONE	10	UJ	C
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UJ	C
BENZENE	10	U	
BROMODICHLOROMETHANE	10	U	
BROMOFORM	10	U	
BROMOMETHANE	10	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	10	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	10	U	
CHLOROETHANE	10	U	
CHLOROFORM	10	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

nsample	FB-062904
samp_date	6/29/2004
lab_id	C4G010284005
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	10	U	
STYRENE	10	U	
TETRACHLOROETHENE	10	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	10	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

nsample	NP-DUP-01
samp_date	6/29/2004
lab_id	C4G010284004
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	NP-MW04-0604

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	10	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	10	UR	C
1,2-DIBROMOETHANE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	10	U	
1,2-DICHLOROPROPANE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2-BUTANONE	10	UJ	C
2-HEXANONE	10	UJ	C
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UJ	C
BENZENE	10	U	
BROMODICHLOROMETHANE	10	U	
BROMOFORM	10	U	
BROMOMETHANE	10	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	10	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	10	U	
CHLOROETHANE	10	U	
CHLOROFORM	10	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OV

nsample	NP-DUP-01
samp_date	6/29/2004
lab_id	C4G010284004
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	NP-MW04-0604

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	10	U	
STYRENE	10	U	
TETRACHLOROETHENE	10	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	10	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

nsample	NP-MW01-0604
samp_date	6/29/2004
lab_id	C4G010284007
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	10	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	10	UR	C
1,2-DIBROMOETHANE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	10	U	
1,2-DICHLOROPROPANE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2-BUTANONE	10	UJ	C
2-HEXANONE	10	UJ	C
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UJ	C
BENZENE	10	U	
BROMODICHLOROMETHANE	10	U	
BROMOFORM	10	U	
BROMOMETHANE	10	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	10	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	10	U	
CHLOROETHANE	10	U	
CHLOROFORM	10	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

nsample	NP-MW01-0604
samp_date	6/29/2004
lab_id	C4G010284007
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	10	U	
STYRENE	10	U	
TETRACHLOROETHENE	10	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	10	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OV

nsample	NP-MW04-0604
samp_date	6/29/2004
lab_id	C4G010284001
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	10	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	10	UR	C
1,2-DIBROMOETHANE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	10	U	
1,2-DICHLOROPROPANE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2-BUTANONE	10	UJ	C
2-HEXANONE	10	UJ	C
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UJ	C
BENZENE	10	U	
BROMODICHLOROMETHANE	10	U	
BROMOFORM	10	U	
BROMOMETHANE	10	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	10	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	10	U	
CHLOROETHANE	10	U	
CHLOROFORM	10	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

nsample	NP-MW04-0604
samp_date	6/29/2004
lab_id	C4G010284001
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	10	U	
STYRENE	10	U	
TETRACHLOROETHENE	10	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	10	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

nsample	NP-MW05-0604
samp_date	6/29/2004
lab_id	C4G010284003
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	10	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	10	UR	C
1,2-DIBROMOETHANE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	10	U	
1,2-DICHLOROPROPANE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2-BUTANONE	10	UJ	C
2-HEXANONE	10	UJ	C
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UJ	C
BENZENE	10	U	
BROMODICHLOROMETHANE	10	U	
BROMOFORM	10	U	
BROMOMETHANE	10	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	10	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	10	U	
CHLOROETHANE	10	U	
CHLOROFORM	10	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OV

nsample	NP-MW05-0604	nsample	NP-MW06-0604	nsample	NP-MW06-0604
samp_date	6/29/2004	samp_date	6/29/2004	samp_date	6/29/2004
lab_id	C4G010284003	lab_id	C4G010284006	lab_id	C4G010284006
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0.0	Pct_Solids	0.0	Pct_Solids	0.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	10	U	
STYRENE	10	U	
TETRACHLOROETHENE	10	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	10	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	10	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	10	UR	C
1,2-DIBROMOETHANE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	10	U	
1,2-DICHLOROPROPANE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2-BUTANONE	10	UJ	C
2-HEXANONE	10	UJ	C
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UJ	C
BENZENE	10	U	
BROMODICHLOROMETHANE	10	U	
BROMOFORM	10	U	
BROMOMETHANE	10	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	10	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	10	U	
CHLOROETHANE	10	U	
CHLOROFORM	10	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	10	U	
STYRENE	10	U	
TETRACHLOROETHENE	10	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	10	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OV

nsample	RB-062904	nsample	RB-062904	nsample	TB-062904
samp_date	6/29/2004	samp_date	6/29/2004	samp_date	6/29/2004
lab_id	C4G010284002	lab_id	C4G010284002	lab_id	C4G010284008
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0.0	Pct_Solids	0.0	Pct_Solids	0.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	10	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	10	UR	C
1,2-DIBROMOETHANE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	10	U	
1,2-DICHLOROPROPANE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2-BUTANONE	10	UJ	C
2-HEXANONE	10	UJ	C
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UJ	C
BENZENE	10	U	
BROMODICHLOROMETHANE	10	U	
BROMOFORM	10	U	
BROMOMETHANE	10	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	10	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	10	U	
CHLOROETHANE	10	U	
CHLOROFORM	10	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	10	U	
STYRENE	10	U	
TETRACHLOROETHENE	10	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	10	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	
1,1,1-TRICHLOROETHANE	10	U	
1,1,2,2-TETRACHLOROETHANE	10	U	
1,1,2-TRICHLOROETHANE	10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	10	U	
1,1-DICHLOROETHANE	10	U	
1,1-DICHLOROETHENE	10	U	
1,2,4-TRICHLOROBENZENE	10	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	10	UR	C
1,2-DIBROMOETHANE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DICHLOROETHANE	10	U	
1,2-DICHLOROPROPANE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2-BUTANONE	10	UJ	C
2-HEXANONE	10	UJ	C
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UJ	C
BENZENE	10	U	
BROMODICHLOROMETHANE	10	U	
BROMOFORM	10	U	
BROMOMETHANE	10	U	
CARBON DISULFIDE	10	U	
CARBON TETRACHLORIDE	10	U	
CHLOROBENZENE	10	U	
CHLORODIBROMOMETHANE	10	U	
CHLOROETHANE	10	U	
CHLOROFORM	10	U	
CHLOROMETHANE	10	U	
CIS-1,2-DICHLOROETHENE	10	U	
CIS-1,3-DICHLOROPROPENE	10	U	
CYCLOHEXANE	10	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OV

nsample	TB-062904
samp_date	6/29/2004
lab_id	C4G010284008
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	10	U	
ETHYLBENZENE	10	U	
ISOPROPYLBENZENE	10	U	
METHYL ACETATE	10	U	
METHYL CYCLOHEXANE	10	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	10	U	
STYRENE	10	U	
TETRACHLOROETHENE	10	U	
TOLUENE	10	U	
TOTAL XYLENES	10	U	
TRANS-1,2-DICHLOROETHENE	10	U	
TRANS-1,3-DICHLOROPROPENE	10	U	
TRICHLOROETHENE	10	U	
TRICHLOROFLUOROMETHANE	10	U	
VINYL CHLORIDE	10	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OS

nsample	FB-062904
samp_date	6/29/2004
lab_id	C4G010284005
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	9.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	9.5	U	
2,4,5-TRICHLOROPHENOL	24	U	
2,4,6-TRICHLOROPHENOL	9.5	U	
2,4-DICHLOROPHENOL	9.5	U	
2,4-DIMETHYLPHENOL	9.5	U	
2,4-DINITROPHENOL	24	UJ	C
2,4-DINITROTOLUENE	9.5	U	
2,6-DINITROTOLUENE	9.5	U	
2-CHLORONAPHTHALENE	9.5	U	
2-CHLOROPHENOL	9.5	U	
2-METHYLNAPHTHALENE	9.5	U	
2-METHYLPHENOL	9.5	U	
2-NITROANILINE	24	U	
2-NITROPHENOL	9.5	U	
3,3'-DICHLOROBENZIDINE	9.5	U	
3-NITROANILINE	24	U	
4,6-DINITRO-2-METHYLPHENOL	24	U	
4-BROMOPHENYL PHENYL ETHER	9.5	U	
4-CHLORO-3-METHYLPHENOL	9.5	U	
4-CHLOROANILINE	9.5	U	
4-CHLOROPHENYL PHENYL ETHER	9.5	U	
4-METHYLPHENOL	9.5	U	
4-NITROANILINE	24	U	
4-NITROPHENOL	24	U	
ACENAPHTHENE	9.5	U	
ACENAPHTHYLENE	9.5	U	
ACETOPHENONE	9.5	U	
ANTHRACENE	9.5	U	
ATRAZINE	9.5	U	
BENZALDEHYDE	2.3	J	CP
BENZO(A)ANTHRACENE	9.5	U	

nsample	FB-062904
samp_date	6/29/2004
lab_id	C4G010284005
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	9.5	U	
BENZO(B)FLUORANTHENE	9.5	U	
BENZO(G,H,I)PERYLENE	9.5	U	
BENZO(K)FLUORANTHENE	9.5	U	
BIS(2-CHLOROETHOXY)METHANE	9.5	U	
BIS(2-CHLOROETHYL)ETHER	9.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2.9	J	P
BUTYL BENZYL PHTHALATE	9.5	U	
CAPROLACTAM	9.5	U	
CARBAZOLE	9.5	U	
CHRYSENE	9.5	U	
DIBENZO(A,H)ANTHRACENE	9.5	U	
DIBENZOFURAN	9.5	U	
DIETHYL PHTHALATE	9.5	U	
DIMETHYL PHTHALATE	9.5	U	
DI-N-BUTYL PHTHALATE	9.5	U	
DI-N-OCTYL PHTHALATE	9.5	U	
FLUORANTHENE	9.5	U	
FLUORENE	9.5	U	
HEXACHLOROBENZENE	9.5	U	
HEXACHLOROBUTADIENE	9.5	U	
HEXACHLOROCYCLOPENTADIENE	9.5	UJ	C
HEXACHLOROETHANE	9.5	U	
INDENO(1,2,3-CD)PYRENE	9.5	U	
ISOPHORONE	9.5	U	
NAPHTHALENE	9.5	U	
NITROBENZENE	9.5	U	
N-NITROSO-DI-N-PROPYLAMINE	9.5	U	
N-NITROSODIPHENYLAMINE	9.5	U	
PENTACHLOROPHENOL	24	U	
PHENANTHRENE	9.5	U	
PHENOL	9.5	U	

nsample	FB-062904
samp_date	6/29/2004
lab_id	C4G010284005
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PYRENE	9.5	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OS

nsample	NP-DUP-01
samp_date	6/29/2004
lab_id	C4G010284004
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	NP-MW04-0604

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	9.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	9.5	U	
2,4,5-TRICHLOROPHENOL	24	U	
2,4,6-TRICHLOROPHENOL	9.5	U	
2,4-DICHLOROPHENOL	9.5	U	
2,4-DIMETHYLPHENOL	9.5	U	
2,4-DINITROPHENOL	24	UJ	C
2,4-DINITROTOLUENE	9.5	U	
2,6-DINITROTOLUENE	9.5	U	
2-CHLORONAPHTHALENE	9.5	U	
2-CHLOROPHENOL	9.5	U	
2-METHYLNAPHTHALENE	9.5	U	
2-METHYLPHENOL	9.5	U	
2-NITROANILINE	24	U	
2-NITROPHENOL	9.5	U	
3,3'-DICHLOROBENZIDINE	9.5	U	
3-NITROANILINE	24	U	
4,6-DINITRO-2-METHYLPHENOL	24	U	
4-BROMOPHENYL PHENYL ETHER	9.5	U	
4-CHLORO-3-METHYLPHENOL	9.5	U	
4-CHLOROANILINE	9.5	U	
4-CHLOROPHENYL PHENYL ETHER	9.5	U	
4-METHYLPHENOL	9.5	U	
4-NITROANILINE	24	U	
4-NITROPHENOL	24	U	
ACENAPHTHENE	9.5	U	
ACENAPHTHYLENE	9.5	U	
ACETOPHENONE	9.5	U	
ANTHRACENE	9.5	U	
ATRAZINE	9.5	U	
BENZALDEHYDE	9.5	UJ	C
BENZO(A)ANTHRACENE	9.5	U	

nsample	NP-DUP-01
samp_date	6/29/2004
lab_id	C4G010284004
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	NP-MW04-0604

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	9.5	U	
BENZO(B)FLUORANTHENE	9.5	U	
BENZO(G,H,I)PERYLENE	9.5	U	
BENZO(K)FLUORANTHENE	9.5	U	
BIS(2-CHLOROETHOXY)METHANE	9.5	U	
BIS(2-CHLOROETHYL)ETHER	9.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	11	U	B
BUTYL BENZYL PHTHALATE	9.5	U	
CAPROLACTAM	9.5	U	
CARBAZOLE	9.5	U	
CHRYSENE	9.5	U	
DIBENZO(A,H)ANTHRACENE	9.5	U	
DIBENZOFURAN	9.5	U	
DIETHYL PHTHALATE	9.5	U	
DIMETHYL PHTHALATE	9.5	U	
DI-N-BUTYL PHTHALATE	9.5	U	
DI-N-OCTYL PHTHALATE	9.5	U	
FLUORANTHENE	9.5	U	
FLUORENE	9.5	U	
HEXACHLOROBENZENE	9.5	U	
HEXACHLOROBUTADIENE	9.5	U	
HEXACHLOROCYCLOPENTADIENE	9.5	UJ	C
HEXACHLOROETHANE	9.5	U	
INDENO(1,2,3-CD)PYRENE	9.5	U	
ISOPHORONE	9.5	U	
NAPHTHALENE	9.5	U	
NITROBENZENE	9.5	U	
N-NITROSO-DI-N-PROPYLAMINE	9.5	U	
N-NITROSODIPHENYLAMINE	9.5	U	
PENTACHLOROPHENOL	24	U	
PHENANTHRENE	9.5	U	
PHENOL	9.5	U	

nsample	NP-DUP-01
samp_date	6/29/2004
lab_id	C4G010284004
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	NP-MW04-0604

Parameter	Result	Val Qual	Qual Code
PYRENE	9.5	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OS

nsample	NP-MW01-0604
samp_date	6/29/2004
lab_id	C4G010284007
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	9.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	9.5	U	
2,4,5-TRICHLOROPHENOL	24	U	
2,4,6-TRICHLOROPHENOL	9.5	U	
2,4-DICHLOROPHENOL	9.5	U	
2,4-DIMETHYLPHENOL	9.5	U	
2,4-DINITROPHENOL	24	UJ	C
2,4-DINITROTOLUENE	9.5	U	
2,6-DINITROTOLUENE	9.5	U	
2-CHLORONAPHTHALENE	9.5	U	
2-CHLOROPHENOL	9.5	U	
2-METHYLNAPHTHALENE	9.5	U	
2-METHYLPHENOL	9.5	U	
2-NITROANILINE	24	U	
2-NITROPHENOL	9.5	U	
3,3'-DICHLOROBENZIDINE	9.5	U	
3-NITROANILINE	24	U	
4,6-DINITRO-2-METHYLPHENOL	24	U	
4-BROMOPHENYL PHENYL ETHER	9.5	U	
4-CHLORO-3-METHYLPHENOL	9.5	U	
4-CHLOROANILINE	9.5	U	
4-CHLOROPHENYL PHENYL ETHER	9.5	U	
4-METHYLPHENOL	9.5	U	
4-NITROANILINE	24	U	
4-NITROPHENOL	24	U	
ACENAPHTHENE	9.5	U	
ACENAPHTHYLENE	9.5	U	
ACETOPHENONE	9.5	U	
ANTHRACENE	9.5	U	
ATRAZINE	9.5	U	
BENZALDEHYDE	9.5	UJ	C
BENZO(A)ANTHRACENE	9.5	U	

nsample	NP-MW01-0604
samp_date	6/29/2004
lab_id	C4G010284007
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	9.5	U	
BENZO(B)FLUORANTHENE	9.5	U	
BENZO(G,H,I)PERYLENE	9.5	U	
BENZO(K)FLUORANTHENE	9.5	U	
BIS(2-CHLOROETHOXY)METHANE	9.5	U	
BIS(2-CHLOROETHYL)ETHER	9.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	9.5	U	B
BUTYL BENZYL PHTHALATE	9.5	U	
CAPROLACTAM	9.5	U	
CARBAZOLE	9.5	U	
CHRYSENE	9.5	U	
DIBENZO(A,H)ANTHRACENE	9.5	U	
DIBENZOFURAN	9.5	U	
DIETHYL PHTHALATE	9.5	U	
DIMETHYL PHTHALATE	9.5	U	
DI-N-BUTYL PHTHALATE	9.5	U	
DI-N-OCTYL PHTHALATE	9.5	U	
FLUORANTHENE	9.5	U	
FLUORENE	9.5	U	
HEXACHLOROBENZENE	9.5	U	
HEXACHLOROBUTADIENE	9.5	U	
HEXACHLOROCYCLOPENTADIENE	9.5	UJ	C
HEXACHLOROETHANE	9.5	U	
INDENO(1,2,3-CD)PYRENE	9.5	U	
ISOPHORONE	9.5	U	
NAPHTHALENE	9.5	U	
NITROBENZENE	9.5	U	
N-NITROSO-DI-N-PROPYLAMINE	9.5	U	
N-NITROSODIPHENYLAMINE	9.5	U	
PENTACHLOROPHENOL	24	U	
PHENANTHRENE	9.5	U	
PHENOL	9.5	U	

nsample	NP-MW01-0604
samp_date	6/29/2004
lab_id	C4G010284007
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PYRENE	9.5	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OS

nsample	NP-MW04-0604
samp_date	6/29/2004
lab_id	C4G010284001
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	9.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	9.5	U	
2,4,5-TRICHLOROPHENOL	24	U	
2,4,6-TRICHLOROPHENOL	9.5	U	
2,4-DICHLOROPHENOL	9.5	U	
2,4-DIMETHYLPHENOL	9.5	U	
2,4-DINITROPHENOL	24	UJ	C
2,4-DINITROTOLUENE	9.5	U	
2,6-DINITROTOLUENE	9.5	U	
2-CHLORONAPHTHALENE	9.5	U	
2-CHLOROPHENOL	9.5	U	
2-METHYLNAPHTHALENE	9.5	U	
2-METHYLPHENOL	9.5	U	
2-NITROANILINE	24	U	
2-NITROPHENOL	9.5	U	
3,3'-DICHLOROBENZIDINE	9.5	U	
3-NITROANILINE	24	U	
4,6-DINITRO-2-METHYLPHENOL	24	U	
4-BROMOPHENYL PHENYL ETHER	9.5	U	
4-CHLORO-3-METHYLPHENOL	9.5	U	
4-CHLOROANILINE	9.5	U	
4-CHLOROPHENYL PHENYL ETHER	9.5	U	
4-METHYLPHENOL	9.5	U	
4-NITROANILINE	24	U	
4-NITROPHENOL	24	U	
ACENAPHTHENE	9.5	U	
ACENAPHTHYLENE	9.5	U	
ACETOPHENONE	9.5	U	
ANTHRACENE	9.5	U	
ATRAZINE	9.5	U	
BENZALDEHYDE	9.5	UJ	C
BENZO(A)ANTHRACENE	9.5	U	

nsample	NP-MW04-0604
samp_date	6/29/2004
lab_id	C4G010284001
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	9.5	U	
BENZO(B)FLUORANTHENE	9.5	U	
BENZO(G,H,I)PERYLENE	9.5	U	
BENZO(K)FLUORANTHENE	9.5	U	
BIS(2-CHLOROETHOXY)METHANE	9.5	U	
BIS(2-CHLOROETHYL)ETHER	9.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	9.5	U	B
BUTYL BENZYL PHTHALATE	9.5	U	
CAPROLACTAM	9.5	U	
CARBAZOLE	9.5	U	
CHRYSENE	9.5	U	
DIBENZO(A,H)ANTHRACENE	9.5	U	
DIBENZOFURAN	9.5	U	
DIETHYL PHTHALATE	9.5	U	
DIMETHYL PHTHALATE	9.5	U	
DI-N-BUTYL PHTHALATE	9.5	U	
DI-N-OCTYL PHTHALATE	9.5	U	
FLUORANTHENE	9.5	U	
FLUORENE	9.5	U	
HEXACHLOROBENZENE	9.5	U	
HEXACHLOROBUTADIENE	9.5	U	
HEXACHLOROCYCLOPENTADIENE	9.5	UJ	C
HEXACHLOROETHANE	9.5	U	
INDENO(1,2,3-CD)PYRENE	9.5	U	
ISOPHORONE	9.5	U	
NAPHTHALENE	9.5	U	
NITROBENZENE	9.5	U	
N-NITROSO-DI-N-PROPYLAMINE	9.5	U	
N-NITROSODIPHENYLAMINE	9.5	U	
PENTACHLOROPHENOL	24	U	
PHENANTHRENE	9.5	U	
PHENOL	9.5	U	

nsample	NP-MW04-0604
samp_date	6/29/2004
lab_id	C4G010284001
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PYRENE	9.5	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OS

nsample	NP-MW05-0604	nsample	NP-MW05-0604	nsample	NP-MW05-0604
samp_date	6/29/2004	samp_date	6/29/2004	samp_date	6/29/2004
lab_id	C4G010284003	lab_id	C4G010284003	lab_id	C4G010284003
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0.0	Pct_Solids	0.0	Pct_Solids	0.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	26	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	26	UJ	C
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	26	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	26	U	
4,6-DINITRO-2-METHYLPHENOL	26	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	26	U	
4-NITROPHENOL	26	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANTHRACENE	10	U	
ATRAZINE	10	U	
BENZALDEHYDE	10	UJ	C
BENZO(A)ANTHRACENE	10	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	B
BUTYL BENZYL PHTHALATE	10	U	
CAPROLACTAM	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	UJ	C
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
NAPHTHALENE	10	U	
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	26	U	
PHENANTHRENE	10	U	
PHENOL	10	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	10	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OS

nsample	NP-MW06-0604
samp_date	6/29/2004
lab_id	C4G010284006
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	12	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	12	U	
2,4,5-TRICHLOROPHENOL	31	U	
2,4,6-TRICHLOROPHENOL	12	U	
2,4-DICHLOROPHENOL	12	U	
2,4-DIMETHYLPHENOL	12	U	
2,4-DINITROPHENOL	31	UJ	C
2,4-DINITROTOLUENE	12	U	
2,6-DINITROTOLUENE	12	U	
2-CHLORONAPHTHALENE	12	U	
2-CHLOROPHENOL	12	U	
2-METHYLNAPHTHALENE	12	U	
2-METHYLPHENOL	12	U	
2-NITROANILINE	31	U	
2-NITROPHENOL	12	U	
3,3'-DICHLOROBENZIDINE	12	U	
3-NITROANILINE	31	U	
4,6-DINITRO-2-METHYLPHENOL	31	U	
4-BROMOPHENYL PHENYL ETHER	12	U	
4-CHLORO-3-METHYLPHENOL	12	U	
4-CHLOROANILINE	12	U	
4-CHLOROPHENYL PHENYL ETHER	12	U	
4-METHYLPHENOL	12	U	
4-NITROANILINE	31	U	
4-NITROPHENOL	31	U	
ACENAPHTHENE	12	U	
ACENAPHTHYLENE	12	U	
ACETOPHENONE	12	U	
ANTHRACENE	12	U	
ATRAZINE	12	U	
BENZALDEHYDE	12	UJ	C
BENZO(A)ANTHRACENE	12	U	

nsample	NP-MW06-0604
samp_date	6/29/2004
lab_id	C4G010284006
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	12	U	
BENZO(B)FLUORANTHENE	12	U	
BENZO(G,H,I)PERYLENE	12	U	
BENZO(K)FLUORANTHENE	12	U	
BIS(2-CHLOROETHOXY)METHANE	12	U	
BIS(2-CHLOROETHYL)ETHER	12	U	
BIS(2-ETHYLHEXYL)PHTHALATE	12	U	
BUTYL BENZYL PHTHALATE	12	U	
CAPROLACTAM	12	U	
CARBAZOLE	12	U	
CHRYSENE	12	U	
DIBENZO(A,H)ANTHRACENE	12	U	
DIBENZOFURAN	12	U	
DIETHYL PHTHALATE	12	U	
DIMETHYL PHTHALATE	12	U	
DI-N-BUTYL PHTHALATE	12	U	
DI-N-OCTYL PHTHALATE	12	U	
FLUORANTHENE	12	U	
FLUORENE	12	U	
HEXACHLOROBENZENE	12	U	
HEXACHLOROBUTADIENE	12	U	
HEXACHLOROCYCLOPENTADIENE	12	UJ	C
HEXACHLOROETHANE	12	U	
INDENO(1,2,3-CD)PYRENE	12	U	
ISOPHORONE	12	U	
NAPHTHALENE	12	U	
NITROBENZENE	12	U	
N-NITROSO-DI-N-PROPYLAMINE	12	U	
N-NITROSODIPHENYLAMINE	12	U	
PENTACHLOROPHENOL	31	U	
PHENANTHRENE	12	U	
PHENOL	12	U	

nsample	NP-MW06-0604
samp_date	6/29/2004
lab_id	C4G010284006
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PYRENE	12	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: OS

nsample	RB-062904	nsample	RB-062904	nsample	RB-062904
samp_date	6/29/2004	samp_date	6/29/2004	samp_date	6/29/2004
lab_id	C4G010284002	lab_id	C4G010284002	lab_id	C4G010284002
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0.0	Pct_Solids	0.0	Pct_Solids	0.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	9.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	9.5	U	
2,4,5-TRICHLOROPHENOL	24	U	
2,4,6-TRICHLOROPHENOL	9.5	U	
2,4-DICHLOROPHENOL	9.5	U	
2,4-DIMETHYLPHENOL	9.5	U	
2,4-DINITROPHENOL	24	UJ	C
2,4-DINITROTOLUENE	9.5	U	
2,6-DINITROTOLUENE	9.5	U	
2-CHLORONAPHTHALENE	9.5	U	
2-CHLOROPHENOL	9.5	U	
2-METHYLNAPHTHALENE	9.5	U	
2-METHYLPHENOL	9.5	U	
2-NITROANILINE	24	U	
2-NITROPHENOL	9.5	U	
3,3'-DICHLOROBENZIDINE	9.5	U	
3-NITROANILINE	24	U	
4,6-DINITRO-2-METHYLPHENOL	24	U	
4-BROMOPHENYL PHENYL ETHER	9.5	U	
4-CHLORO-3-METHYLPHENOL	9.5	U	
4-CHLOROANILINE	9.5	U	
4-CHLOROPHENYL PHENYL ETHER	9.5	U	
4-METHYLPHENOL	9.5	U	
4-NITROANILINE	24	U	
4-NITROPHENOL	24	U	
ACENAPHTHENE	9.5	U	
ACENAPHTHYLENE	9.5	U	
ACETOPHENONE	9.5	U	
ANTHRACENE	9.5	U	
ATRAZINE	9.5	U	
BENZALDEHYDE	9.5	UJ	C
BENZO(A)ANTHRACENE	9.5	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	9.5	U	
BENZO(B)FLUORANTHENE	9.5	U	
BENZO(G,H,I)PERYLENE	9.5	U	
BENZO(K)FLUORANTHENE	9.5	U	
BIS(2-CHLOROETHOXY)METHANE	9.5	U	
BIS(2-CHLOROETHYL)ETHER	9.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	3.3	J	P
BUTYL BENZYL PHTHALATE	9.5	U	
CAPROLACTAM	9.5	U	
CARBAZOLE	9.5	U	
CHRYSENE	9.5	U	
DIBENZO(A,H)ANTHRACENE	9.5	U	
DIBENZOFURAN	9.5	U	
DIETHYL PHTHALATE	9.5	U	
DIMETHYL PHTHALATE	9.5	U	
DI-N-BUTYL PHTHALATE	9.5	U	
DI-N-OCTYL PHTHALATE	9.5	U	
FLUORANTHENE	9.5	U	
FLUORENE	9.5	U	
HEXACHLOROBENZENE	9.5	U	
HEXACHLOROBUTADIENE	9.5	U	
HEXACHLOROCYCLOPENTADIENE	9.5	UJ	C
HEXACHLOROETHANE	9.5	U	
INDENO(1,2,3-CD)PYRENE	9.5	U	
ISOPHORONE	9.5	U	
NAPHTHALENE	9.5	U	
NITROBENZENE	9.5	U	
N-NITROSO-DI-N-PROPYLAMINE	9.5	U	
N-NITROSODIPHENYLAMINE	9.5	U	
PENTACHLOROPHENOL	24	U	
PHENANTHRENE	9.5	U	
PHENOL	9.5	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	9.5	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	FB-062904	nsample	NP-DUP-01	nsample	NP-MW01-0604
samp_date	6/29/2004	samp_date	6/29/2004	samp_date	6/29/2004
lab_id	C4G010284005	lab_id	C4G010284004	lab_id	C4G010284007
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0.0	Pct_Solids	0.0	Pct_Solids	0.0
DUP_OF:		DUP_OF:	NP-MW04-0604	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.095	U	
4,4'-DDE	0.095	U	
4,4'-DDT	0.095	U	
ALDRIN	0.048	U	
ALPHA-BHC	0.048	U	
ALPHA-CHLORDANE	0.048	U	
AROCLOR-1016	0.95	U	
AROCLOR-1221	1.9	U	
AROCLOR-1232	0.95	U	
AROCLOR-1242	0.95	U	
AROCLOR-1248	0.95	U	
AROCLOR-1254	0.95	U	
AROCLOR-1260	0.95	U	
BETA-BHC	0.048	U	
DELTA-BHC	0.048	U	
DIELDRIN	0.095	U	
ENDOSULFAN I	0.048	U	
ENDOSULFAN II	0.095	U	
ENDOSULFAN SULFATE	0.095	U	
ENDRIN	0.095	U	
ENDRIN ALDEHYDE	0.095	U	
ENDRIN KETONE	0.095	U	
GAMMA-BHC (LINDANE)	0.048	U	
GAMMA-CHLORDANE	0.048	U	
HEPTACHLOR	0.048	U	
HEPTACHLOR EPOXIDE	0.048	U	
METHOXYCHLOR	0.48	U	
TOXAPHENE	4.8	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.095	U	
4,4'-DDE	0.095	U	
4,4'-DDT	0.082	J	PQ
ALDRIN	0.048	U	
ALPHA-BHC	0.048	U	
ALPHA-CHLORDANE	0.048	U	
AROCLOR-1016	0.95	U	
AROCLOR-1221	1.9	U	
AROCLOR-1232	0.95	U	
AROCLOR-1242	0.95	U	
AROCLOR-1248	0.95	U	
AROCLOR-1254	0.95	U	
AROCLOR-1260	0.95	U	
BETA-BHC	0.048	U	
DELTA-BHC	0.048	U	
DIELDRIN	0.095	U	
ENDOSULFAN I	0.048	U	
ENDOSULFAN II	0.095	U	
ENDOSULFAN SULFATE	0.095	U	
ENDRIN	0.095	U	
ENDRIN ALDEHYDE	0.095	U	
ENDRIN KETONE	0.095	U	
GAMMA-BHC (LINDANE)	0.048	U	
GAMMA-CHLORDANE	0.048	U	
HEPTACHLOR	0.048	U	
HEPTACHLOR EPOXIDE	0.048	U	
METHOXYCHLOR	0.48	U	
TOXAPHENE	4.8	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.094	U	
4,4'-DDE	0.094	U	
4,4'-DDT	0.094	U	
ALDRIN	0.047	U	
ALPHA-BHC	0.047	U	
ALPHA-CHLORDANE	0.047	U	
AROCLOR-1016	0.94	U	
AROCLOR-1221	1.9	U	
AROCLOR-1232	0.94	U	
AROCLOR-1242	0.94	U	
AROCLOR-1248	0.94	U	
AROCLOR-1254	0.94	U	
AROCLOR-1260	0.94	U	
BETA-BHC	0.047	U	
DELTA-BHC	0.047	U	
DIELDRIN	0.094	U	
ENDOSULFAN I	0.047	U	
ENDOSULFAN II	0.094	U	
ENDOSULFAN SULFATE	0.094	U	
ENDRIN	0.094	U	
ENDRIN ALDEHYDE	0.094	U	
ENDRIN KETONE	0.094	U	
GAMMA-BHC (LINDANE)	0.047	U	
GAMMA-CHLORDANE	0.047	U	
HEPTACHLOR	0.047	U	
HEPTACHLOR EPOXIDE	0.047	U	
METHOXYCHLOR	0.47	U	
TOXAPHENE	4.7	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	NP-MW04-0604	nsample	NP-MW05-0604	nsample	NP-MW06-0604
samp_date	6/29/2004	samp_date	6/29/2004	samp_date	6/29/2004
lab_id	C4G010284001	lab_id	C4G010284003	lab_id	C4G010284006
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0.0	Pct_Solids	0.0	Pct_Solids	0.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.095	U	
4,4'-DDE	0.095	U	
4,4'-DDT	0.095	U	
ALDRIN	0.048	U	
ALPHA-BHC	0.048	U	
ALPHA-CHLORDANE	0.048	U	
AROCLOR-1016	0.95	U	
AROCLOR-1221	1.9	U	
AROCLOR-1232	0.95	U	
AROCLOR-1242	0.95	U	
AROCLOR-1248	0.95	U	
AROCLOR-1254	0.95	U	
AROCLOR-1260	0.95	U	
BETA-BHC	0.048	U	
DELTA-BHC	0.048	U	
DIELDRIN	0.095	U	
ENDOSULFAN I	0.048	U	
ENDOSULFAN II	0.095	U	
ENDOSULFAN SULFATE	0.095	U	
ENDRIN	0.095	U	
ENDRIN ALDEHYDE	0.095	U	
ENDRIN KETONE	0.095	U	
GAMMA-BHC (LINDANE)	0.048	U	
GAMMA-CHLORDANE	0.048	U	
HEPTACHLOR	0.048	U	
HEPTACHLOR EPOXIDE	0.048	U	
METHOXYCHLOR	0.48	U	
TOXAPHENE	4.8	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.1	U	
4,4'-DDE	0.1	U	
4,4'-DDT	0.1	U	
ALDRIN	0.05	U	
ALPHA-BHC	0.05	U	
ALPHA-CHLORDANE	0.05	U	
AROCLOR-1016	1	U	
AROCLOR-1221	2	U	
AROCLOR-1232	1	U	
AROCLOR-1242	1	U	
AROCLOR-1248	1	U	
AROCLOR-1254	1	U	
AROCLOR-1260	1	U	
BETA-BHC	0.05	U	
DELTA-BHC	0.05	U	
DIELDRIN	0.1	U	
ENDOSULFAN I	0.05	U	
ENDOSULFAN II	0.1	U	
ENDOSULFAN SULFATE	0.1	U	
ENDRIN	0.1	U	
ENDRIN ALDEHYDE	0.1	U	
ENDRIN KETONE	0.1	U	
GAMMA-BHC (LINDANE)	0.05	U	
GAMMA-CHLORDANE	0.05	U	
HEPTACHLOR	0.05	U	
HEPTACHLOR EPOXIDE	0.05	U	
METHOXYCHLOR	0.5	U	
TOXAPHENE	5	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.094	U	
4,4'-DDE	0.094	U	
4,4'-DDT	0.094	U	
ALDRIN	0.047	U	
ALPHA-BHC	0.047	U	
ALPHA-CHLORDANE	0.047	U	
AROCLOR-1016	0.94	U	
AROCLOR-1221	1.9	U	
AROCLOR-1232	0.94	U	
AROCLOR-1242	0.94	U	
AROCLOR-1248	0.94	U	
AROCLOR-1254	0.94	U	
AROCLOR-1260	0.94	U	
BETA-BHC	0.047	U	
DELTA-BHC	0.047	U	
DIELDRIN	0.094	U	
ENDOSULFAN I	0.047	U	
ENDOSULFAN II	0.094	U	
ENDOSULFAN SULFATE	0.094	U	
ENDRIN	0.094	U	
ENDRIN ALDEHYDE	0.094	U	
ENDRIN KETONE	0.094	U	
GAMMA-BHC (LINDANE)	0.047	U	
GAMMA-CHLORDANE	0.047	U	
HEPTACHLOR	0.047	U	
HEPTACHLOR EPOXIDE	0.047	U	
METHOXYCHLOR	0.47	U	
TOXAPHENE	4.7	U	

PROJ_NO: 1610

SDG: C4G010284 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	RB-062904
samp_date	6/29/2004
lab_id	C4G010284002
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.095	U	
4,4'-DDE	0.095	U	
4,4'-DDT	0.095	U	
ALDRIN	0.048	U	
ALPHA-BHC	0.048	U	
ALPHA-CHLORDANE	0.048	U	
AROCLOR-1016	0.95	U	
AROCLOR-1221	1.9	U	
AROCLOR-1232	0.95	U	
AROCLOR-1242	0.95	U	
AROCLOR-1248	0.95	U	
AROCLOR-1254	0.95	U	
AROCLOR-1260	0.95	U	
BETA-BHC	0.048	U	
DELTA-BHC	0.048	U	
DIELDRIN	0.095	U	
ENDOSULFAN I	0.048	U	
ENDOSULFAN II	0.095	U	
ENDOSULFAN SULFATE	0.095	U	
ENDRIN	0.095	U	
ENDRIN ALDEHYDE	0.095	U	
ENDRIN KETONE	0.095	U	
GAMMA-BHC (LINDANE)	0.048	U	
GAMMA-CHLORDANE	0.048	U	
HEPTACHLOR	0.048	U	
HEPTACHLOR EPOXIDE	0.048	U	
METHOXYCHLOR	0.48	U	
TOXAPHENE	4.8	U	

APPENDIX C
VALIDATION LETTERS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **D. BRAYACK** **DATE: OCTOBER 8, 2004**

FROM: **D. SCHLOER** **CC: DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC/SVOC/PEST/PCB**
CTO 004, NWIRP CALVERTON
SDG: C4G010284

SAMPLES: 1/Aqueous/VOC

TB-062904

7/Aqueous/VOC/SVOC/PEST/PCB

FB-062904	RB-062904	NP-DUP-01	NP-MW01-0604
NP-MW04-0604	NP-MW05-0604	NP-MW06-0604	

Overview

The sample set for CTO 004; NWIRP Calverton; SDG C4G010284 consists of one (1) aqueous trip blank, one (1) aqueous field blank, one (1) aqueous rinse blank, one (1) field duplicate and (4) aqueous groundwater environmental samples. As listed above, the samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), Organochlorine Pesticides (PEST) and Polychlorinated Biphenyls (PCBs). One field duplicate pair was included in this SDG: NP-MW04-0604 and NP-DUP-01.

The samples were collected by Tetra Tech NUS on June 29th, 2004 and analyzed by Severn Trent Laboratories, Inc. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using Contract Laboratory Program (CLP), Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration (OLM04.2) analytical and reporting protocol.

The data contained in this SDG were validated with regard to the following parameters:

	• Data completeness
*	• Holding times
*	• GC/MS Tuning
	• Initial and continuing calibration
*	• Blank results
*	• Surrogate spike recoveries
*	• Internal standard recoveries
*	• Blank Spike/Blank Spike Duplicate Results
	• Matrix Spike/Matrix Spike Duplicate Results
	• Field Duplicate Results
*	• Detection Limits
*	• Compound Quantitation

- Compound Identification

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix D. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B. The Region II data validation forms are presented in Appendix C.

VOC

An initial calibration Relative Response Factor (RRF) fell below the 0.05 quality control limit for 1,2-dibromo-3-chloropropane on instrument HP3, on 04/27/04. Only nondetected results were reported for 1,2-dibromo-3-chloropropane and these were rejected (UR) in the affected samples.

Initial calibration percent Relative Standard Deviations (%RSDs) exceeded the 30% quality control limit for 2-butanone, 2-hexanone and 1,2,4-trichlorobenzene on instrument HP3, on 04/27/04. Only nondetected results were reported for the 2-butanone, 2-hexanone and 1,2,4-trichlorobenzene and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration RRF fell below the 0.05 quality control limit for 1,2-dibromo-3-chloropropane on instrument HP3, on 07/07/04, at 13:25. Only nondetected results were reported for 1,2-dibromo-3-chloropropane and these were rejected (UR) in the affected samples.

A continuing calibration percent Difference (%D) exceeded the 25% quality control limit for acetone on instrument HP3, on 07/07/04, at 13:25. Only nondetected results were reported for acetone and these were qualified as estimated (UJ) in the affected samples.

As requested on the Chain of Custody documentation, the laboratory prepared and analyzed a Matrix Spike/Matrix Spike Duplicate (MS/MSD) for the VOC fraction of sample NP-MW05-0604. All target VOC recoveries and Relative Percent Differences (RPDs) were acceptable.

SVOC

The following target SVOCs were detected in the field and/or rinse blanks at the maximum concentrations indicated below:

Compound	Maximum Concentration	Action Level
Bis(2-ethylhexyl)phthalate	3.3 µg/L	33 µg/L
Benzaldehyde	2.3 µg/L	11.5 µg/L

Blank Actions

Value < Contract Required Quantitation Limit (CRQL) and < Action Level; report CRQL followed by a U.
Value > CRQL and < Action Level; report value followed by a U.
Value > CRQL and > Action Level; report value unqualified.

An action level of 10X the maximum contaminant concentration was established to evaluate blank contamination for bis(2-ethylhexyl)phthalate). An action level of 5X the maximum contaminant concentration was established to evaluate blank contamination for benzaldehyde. Positive results for bis(2-ethylhexyl)phthalate were qualified as nondetected (U), due to field blank contamination. The laboratory method blank was free from contamination.

An initial calibration %RSD exceeded the 30% quality control limit for hexachlorocyclopentadiene and

benzaldehyde on instrument 71, on 07/02/04. Only nondetected results were reported for hexachlorocyclopentadiene and these were qualified as estimated (UJ) in the affected samples. Positive and nondetected results were reported for benzaldehyde and these were qualified as estimated (J) and (UJ), respectively, in the affected samples.

Continuing calibration percent %Ds exceeded the 25% quality control limit for 2,4-dinitrophenol and benzaldehyde on instrument 71, on 07/12/04, at 07:20. Only nondetected results were reported for 2,4-dinitrophenol and benzaldehyde and these were qualified as estimated (UJ) in the affected samples.

As requested on the Chain of Custody documentation, the laboratory prepared and analyzed a MS/MSD for the SVOC fraction of sample NP-MW05-0604. Pentachlorophenol and pyrene recoveries exceeded their respective quality control limits for the MS and MSD analysis. Only nondetected results were reported for pentachlorophenol and pyrene and these were not qualified on this basis.

PEST/PCB

Initial calibration %RSDs exceeded the 20% quality control limit on one analytical column for 4.4'-DDT and methoxychlor on instrument GC4, on 06/22/04. No data validation action was taken based on these noncompliances.

One target pesticide was positively identified and reported for the analysis of sample NP-DUP-01. The %D between positive pesticide results reported from both analytical columns exceeded the 25% quality control limit for the following samples:

Sample	Compound	%D
NP-DUP-01	4,4'-DDT	28.9

Positive pesticide results with a %D greater than the 25% quality control limit were qualified as estimated, due to variance between analytical columns.

As indicated on the COC documentation, the laboratory prepared and analyzed a MS/MSD for the PEST/PCB fraction of sample NP-MW05-0604. All spiked target compound recoveries and RPD were acceptable.

The target pesticide 4,4'-DDT was detected in the field duplicate sample NP-DUP-01, at an estimated concentration of 0.08 µg/L. However, 4,4'-DDT was not detected in the original sample NP-MW04-0604. Review of the analytical sequence indicated that the presence of 4,4'-DDT may be the result of potential carryover from the previous MS/MSD analyses. Chromatography from both the original and duplicate samples were reviewed and found to be very similar with the exception of the peak representing 4,4'-DDT. Based on the review of the sample chromatography, the analytical sequence and the presence of 4,4'-DDT in only one of the field duplicate pair, it is the professional opinion of the reviewer that the 4,4'-DDT result in sample NP-DUP-01 is most likely the result of carryover from the previous MS/MSD analysis. Therefore, the 4,4'-DDT result was qualified as estimated (J) in sample NP-DUP-01.

Additional Comments

Field duplicate precision was evaluated for the field duplicate pair: NP-MW04-0604 and NP-DUP-01. No target VOC or SVOC compounds were detected in the field duplicate pair. The target pesticide 4,4'-DDT was detected in the field duplicate sample NP-DUP-01 but not in the original sample NP-MW04-0604, resulting in a RPD of 200%. However, no data validation action was taken because the positive pesticide result was <2X the reporting limit.

Positively detected and nondetected organic compounds less than the Contract Required Reporting Limit (CRQL) and greater than the method detection limit (MDL) were qualified as estimated (J) due to uncertainty near the detection limit.
The laboratory did not provide sample result summary Form I TICs for the VOC and SVOC analytical fractions. This is noted as a data completeness issue.

EXECUTIVE SUMMARY

Laboratory Performance Issues: One VOC failed Initial Calibration (ICAL) and Continuing Calibration (CCAL) response factor criteria, resulting in the rejection of analytical data. Three VOCs and 2 SVOCs failed ICAL %RSD criteria resulting in the qualification of data as estimated. One VOC and 2 SVOCs failed CCAL %D criteria, resulting in the qualification of analytical data as estimated. One pesticide compound exceeded the criteria for %D between analytical columns, resulting in the qualification of the data point as estimated.

Other Factors Affecting Data Quality: Two SVOCs were detected in the field quality control blanks. Two SVOCs exceeded MS/MSD recovery limits. One SVOC and one PEST target compound were detected in the field duplicate pair resulting in RPD criteria exceedances. No data were qualified based on these noncompliances.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Standard Operating Procedures for the Validation of Organic Data (January, 1992) and the NFESC guidelines entitled "Navy IRCDQM" (September, 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Douglas Schloer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Regional Worksheets
3. Appendix D - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**D. BRAYACK**	**DATE:**	**SEPTEMBER 10, 2004**
FROM:	**ERIN M. FAUST**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – TAL METALS AND CYANIDE**
CTO 004 NWIRP CALVERTON, NY
SAMPLE DELIVERY GROUP (SDG) – C4G010284

SAMPLES: 7/Aqueous/

FB-062904	NP-DUP-01	NP-MW01-0604
NP-MW04-0604	NP-MW05-0604	NP-MW06-0604
RB-062904		

Overview

The sample set for CTO 004, NWIRP Calverton, SDG C4G010284, consists of five (5) groundwater environmental samples, one (1) aqueous field blank, FB-062904, and one (1) aqueous rinsate blank, RB-062904. One (1) field duplicate pair (NP-DUP-01 / NP-MW04-0604) is included within this SDG.

All samples were analyzed for target analyte list (TAL) metals and cyanide. The samples were collected by Tetra Tech NUS on June 29, 2004 and analyzed by Severn Trent Laboratories (STL) Pittsburgh under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Metals and cyanide analyses were conducted using CLP method ILM04.0.

All metals analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using Cold Vapor Atomic Absorption (CVAA).

The data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
• Calibration Data
* • Laboratory Blank Analyses
* • ICP Interference Check Sample Results
* • Laboratory Control Sample Results
* • Matrix Spike Results
* • Laboratory Duplicate Results
* • Field Duplicate Results
* • ICP Serial Dilution Results
* • Sample Quanitation
* • Detection Limits

* - All quality control criteria were met for this parameter.

Calibration Data

The Contract Required Detection Limit (CRDL) percent recoveries for lead were < 80% quality control limit. Positive and nondetected results reported for lead were qualified as estimated, "J" and "UJ", respectively.

Notes

The CRDL percent recovery for selenium was >120% quality control limit. No validation action was necessary because all results for selenium were reported by the laboratory as nondetected.

The laboratory did not initially supply any hardcopy or PDF data for cyanide. The laboratory was contacted regarding this matter and forms were received the same day via e-mail.

Executive Summary

Laboratory Performance: Lead was qualified due to calibration noncompliance.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", as amended for use within EPA Region II, January 1992 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Erin M. Faust
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Control Officer

Attachments:

1. Appendix A - Qualified Analytical Data
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Regional Worksheets
4. Appendix D - Support Documentation

APPENDIX D
SITE PHOTOGRAPHS