

Table 4-1
Quarterly Groundwater Detected Concentrations, September 2002

Method (Units) Analyte	Sample ID Sample Date Sample Type Lab Package ID			CS-D 09/09/02 N D21100295				CS-G-LGR 09/11/02 N D21120190				CS-1 09/10/02 N D21110315				CS-2 09/10/02 N D21110315				CS-9 09/10/02 N D21110315							
	Water Comparison Criteria			Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL				
	Lab MDL	Lab RL	MCL																								
<i>SW6010B (ug/L)</i>																											
Barium	1.8	5	2000					21		1.8	1	36		1.8	1							35		1.8	1		
Calcium	31	1100	--					69000		31	1																
Chromium	0.74	10	100					0.74 U		0.74	1	0.74 U		0.74	1							0.74 U		0.74	1		
Copper	0.76	10	1300					0.76 U		0.76	1	4.2 F		0.76	1							2.6 F		0.76	1		
Iron	13	200	--					13 U		13	1																
Magnesium	24	100	--					13000		24	1																
Manganese	0.49	3	--					0.49 U		0.49	1																
Nickel	1.7	10	100					1.7 U		1.7	1	2.0 F		1.7	1							1.7 U		1.7	1		
Potassium	490	1000	--					750 F		490	1																
Sodium	26	1000	--					8200		26	1																
Zinc	6.8	10	11000					9.5 F		6.8	1	270		6.8	1							160 U		6.8	1		
<i>SW6020 (ug/L)</i>																											
Arsenic	0.061	5	50					0.32 F		0.061	1	0.59 F		0.061	1							0.44 F		0.061	1		
Cadmium	0.022	1	3					0.022 U		0.022	1	0.022 U		0.022	1							0.032 F		0.022	1		
Lead	0.15	2	15					0.15 U		0.15	1	3.1		0.15	1							0.65 F		0.15	1		
<i>SW8260B (ug/L)</i>																											
Chloroform	0.05	0.4	100				0.2 F	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1	0.05	1	
Chloromethane	0.06	1.3	--					0.06 U		0.06	1	0.17 F		0.06	1							0.092 F		0.06	1		
Dichloroethene, 1,1-	0.03	1.2	7				0.12 F	0.03	1	0.03 U	0.03	1	0.03 U	0.03	1	0.03 U	0.03	1	0.03 U	0.03	1	0.03 U	0.03	1	0.03	1	
Dichloroethene, cis-1,2-	0.09	1.2	70				230	1.2	13	0.09 U	0.09	1	0.09 U	0.09	1	0.09 U	0.09	1	0.09 U	0.09	1	0.09 U	0.09	1	0.09	1	
Dichloroethene, trans-1,2-	0.04	0.6	100				1.5	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04	1	
Methylene chloride	0.2	2	5				0.2 U	0.2	1	0.2 U	0.2	1	0.2 U	0.2	1	0.2 U	0.2	1	0.2 U	0.2	1	0.2 U	0.2	1	0.2	1	
Tetrachloroethene	0.05	1.4	5				170	0.67	13	0.05 U	0.05	1	0.08 F	0.05	1	0.073 F	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1	0.05	1	
Toluene	0.06	1.1	1000					0.06	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1	0.06	1
Trichloroethene	0.03	1	5				250	0.03	13	0.03 U	0.03	1	0.2 F	0.03	1	0.03 U	0.03	1	0.03 U	0.03	1	0.03 U	0.03	1	0.03	1	
Trimethylbenzene, 1,2,4-	0.05	1.3	--					0.05 U	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1	0.05	1
Trimethylbenzene, 1,3,5-	0.04	0.5	--					0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04	1
Xylene, o-	0.04	1.1	10000					0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04 U	0.04	1	0.04	1

Tables present all laboratory results for analytes detected above the method detection limit.

Results from all laboratory analysis are presented in Appendix A

All samples were analyzed by Severn Trent Laboratories (STL).

Referenced laboratory package number: D21100295, D21120190, D21110315, D21120175, D21140136, D21130209.

Abbreviations/Notes:

Bolded and shaded samples indicate results greater than MCL standards
 -- No risk reduction standard or background level available
 FD Field Duplicate
 MDL Method Detection Limit
 N Environmental Sample
 RL Reporting Limit
 SQL Sample Quantitation Limit
 MCL Maximum Contamination Level
 DL Dilution

Data Qualifiers:

F- The analyte was positively identified but the associated numerical value is below the RL.
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 U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
 M- Matrix Effect Present

Table 4-1
Quarterly Groundwater Detected Concentrations, September 2002

Method (Units) Analyte	Sample ID Sample Date Sample Type Lab Package ID			CS-10 09/10/02 N D21110315				CS-11 09/10/02 N D21110315				CS-MW1-LGR 09/10/02 N D21110315				CS-MW2-LGR 09/10/02 N D21110315				CS-MW4-LGR 09/11/02 N D21120175			
	Water Comparison Criteria			Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL
	Lab MDL	Lab RL	MCL																				
SW6010B (ug/L)																							
Barium	1.8	5	2000	39		1.8	1					36		1.8	1	44		1.8	1				
Calcium	31	1100	--									77000		31.0	1	48000		31.0	1				
Chromium	0.74	10	100	0.74	U	0.74	1					1.3	F	0.74	1	0.74	U	0.74	1				
Copper	0.76	10	1300	1.4	F	0.76	1					2.3	F	0.76	1	0.76	U	0.76	1				
Iron	13	200	--									200		13.0	1	240		13.0	1				
Magnesium	24	100	--									24000		24.0	1	47000		24.0	1				
Manganese	0.49	3	--									8.9		0.49	1	19		0.49	1				
Nickel	1.7	10	100	1.7	U	1.7	1					4.1	F	1.7	1	13		1.7	1				
Potassium	490	1000	--									1600		490.0	1	8200		490.0	1				
Sodium	26	1000	--									6500		26.0	1	11000		26.0	1				
Zinc	6.8	10	11000	16		6.8	1					81		6.8	1	7.8	F	6.8	1				
SW6020 (ug/L)																							
Arsenic	0.061	5	50	0.61	F	0.061	1					0.7	F	0.061	1	3.2	F	0.061	1				
Cadmium	0.022	1	3	0.022	U	0.022	1					0.027	F	0.022	1	0.066	F	0.022	1				
Lead	0.15	2	15	0.48	F	0.15	1					0.4	F	0.15	1	0.64	F	0.15	1				
SW8260B (ug/L)																							
Chloroform	0.05	0.4	100	0.4		0.05	1	0.05	U	0.05	1	0.085	F	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1
Chloromethane	0.06	1.3	--	0.12	F	0.06	1					0.06	U	0.06	1	0.06	U	0.06	1				
Dichloroethene, 1,1-	0.03	1.2	7	0.03	U	0.03	1	0.032	F	0.03	1	0.045	F	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1
Dichloroethene, cis-1,2-	0.09	1.2	70	0.09	U	0.09	1	0.09	U	0.09	1	17.0		0.09	1	1.1	F	0.09	1	0.14	F	0.09	1
Dichloroethene, trans-1,2-	0.04	0.6	100	0.04	U	0.04	1	0.04	U	0.04	1	0.19	F	0.04	1	0.055	F	0.04	1	0.04	U	0.04	1
Methylene chloride	0.2	2	5	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1
Tetrachloroethene	0.05	1.4	5	0.086	F	0.05	1	0.05	U	0.05	1	12.0		0.05	1	2.9		0.05	1	0.05	U	0.05	1
Toluene	0.06	1.1	1000	0.06	U	0.06	1					0.06	U	0.06	1	0.071	F	0.06	1				
Trichloroethene	0.03	1	5	0.03	U	0.03	1	0.03	U	0.03	1	25.0		0.03	1	2.0		0.03	1	0.03	U	0.03	1
Trimethylbenzene, 1,2,4-	0.05	1.3	--	0.05	U	0.05	1					0.05	U	0.05	1	0.05	U	0.05	1				
Trimethylbenzene, 1,3,5-	0.04	0.5	--	0.04	U	0.04	1					0.04	U	0.04	1	0.04	U	0.04	1				
Xylene, o-	0.04	1.1	10000	0.04	U	0.04	1					0.04	U	0.04	1	0.04	U	0.04	1				

Tables present all laboratory results for analytes detected above the method detection limit.

Results from all laboratory analysis are presented in Appendix A

All samples were analyzed by Severn Trent Laboratories (STL).

Referenced laboratory package number: D21100295, D21120190, D21110315, D21120175, D21140136, D21130209.

Abbreviations/Notes:

- No risk reduction standard or background level available
- FD Field Duplicate
- MDL Method Detection Limit
- N Environmental Sample
- RL Reporting Limit
- SQL Sample Quantitation Limit
- MCL Maximum Contamination Level
- DL Dilution

Data Qualifiers:

- F- The analyte was positively identified but the associated numerical value is below the RL.
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- M- Matrix Effect Present

Table 4-1
Quarterly Groundwater Detected Concentrations, September 2002

Method (Units) Analyte	Sample ID			CS-MW5-LGR				CS-MW7-LGR				CS-MW7-CC				CS-MW8-LGR				CS-MW8-LGR			
	Sample Date			09/11/02				09/13/02				09/13/02				09/10/02				09/10/02			
	Sample Type			N				N				N				N				FD			
Lab Package ID			D21120175				D21140136				D21140136				D21110315				D21110315				
Water Comparison Criteria																							
Lab	Lab	Lab	MCL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL
MDL	RL	RL																					
<i>SW6010B (ug/L)</i>																							
Barium	1.8	5	2000																				
Calcium	31	1100	--																				
Chromium	0.74	10	100																				
Copper	0.76	10	1300																				
Iron	13	200	--																				
Magnesium	24	100	--																				
Manganese	0.49	3	--																				
Nickel	1.7	10	100																				
Potassium	490	1000	--																				
Sodium	26	1000	--																				
Zinc	6.8	10	11000																				
<i>SW6020 (ug/L)</i>																							
Arsenic	0.061	5	50																				
Cadmium	0.022	1	3																				
Lead	0.15	2	15																				
<i>SW8260B (ug/L)</i>																							
Chloroform	0.05	0.4	100	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1
Chloromethane	0.06	1.3	--																				
Dichloroethene, 1,1-	0.03	1.2	7	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1
Dichloroethene, cis-1,2-	0.09	1.2	70	0.46	F	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1
Dichloroethene, trans-1,2-	0.04	0.6	100	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1
Methylene chloride	0.2	2	5	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1
Tetrachloroethene	0.05	1.4	5	0.32	F	0.05	1	0.073	F	0.05	1	0.13	F	0.05	1	0.59	F	0.05	1	0.57	F	0.05	1
Toluene	0.06	1.1	1000																				
Trichloroethene	0.03	1	5	0.4	F	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1
Trimethylbenzene, 1,2,4-	0.05	1.3	--																				
Trimethylbenzene, 1,3,5-	0.04	0.5	--																				
Xylene, o-	0.04	1.1	10000																				

Tables present all laboratory results for analytes detected above the method detection limit.

Results from all laboratory analysis are presented in Appendix A

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Abbreviations/Notes:

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 FD Field Duplicate
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Method (Units) Analyte	Sample ID Sample Date Sample Type Lab Package ID			CS-MW10-LGR 09/13/02 N D21140136				CS-MW10-CC 09/13/02 N D21140136				CS-MW16-LGR 09/09/02 N D21100295				CS-MW17-LGR 09/12/02 N D21130209				CS-MW18-LGR 09/12/02 N D21130209				CS-MW19-LGR 09/12/02 N D21130209							
	Water Comparison Criteria			Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL				
	Lab MDL	Lab RL	MCL																												
<i>SW6010B (ug/L)</i>																															
Barium	1.8	5	2000									35	1.8	1		37	1.8	1		39	1.8	1		38	1.8	1					
Calcium	31	1100	--									80000	31	1		82000	31	1		79000	31	1		87000	31	1					
Chromium	0.74	10	100									0.85 F	0.74	1		4.3 F	0.74	1		0.74 U	0.74	1		0.74 U	0.74	1					
Copper	0.76	10	1300									5.9 F	0.76	1		2.9 F	0.76	1		4.5 F	0.76	1		8.6 F	0.76	1					
Iron	13	200	--									34 F	13	1		270	13	1		20 F	13	1		13 U	13	1					
Magnesium	24	100	--									22000	24	1		31000	24	1		25000	24	1		21000	24	1					
Manganese	0.49	3	--									0.93 F	0.49	1		35	0.49	1		8.4	0.49	1		6.8	0.49	1					
Nickel	1.7	10	100									2.3 F	1.7	1		150	1.7	1		15	1.7	1		11	1.7	1					
Potassium	490	1000	--									1500	490	1		2000	490	1		1700	490	1		12000	490	1					
Sodium	26	1000	--									8000	26	1		9200	26	1		9100	26	1		13000	26	1					
Zinc	6.8	10	11000									260	6.8	1		270	6.8	1		44	6.8	1		390	6.8	1					
<i>SW6020 (ug/L)</i>																															
Arsenic	0.061	5	50									0.33 F	0.061	1		0.57 F	0.061	1		0.62 F	0.061	1		0.51 F	0.061	1					
Cadmium	0.022	1	3									0.1 F	0.022	1		0.023 F	0.022	1		0.022 U	0.022	1		0.028 F	0.022	1					
Lead	0.15	2	15									0.25 F	0.15	1		0.96 F	0.15	1		0.15 U	0.15	1		0.19 F	0.15	1					
<i>SW8260B (ug/L)</i>																															
Chloroform	0.05	0.4	100	0.12 F	0.05	1		0.05 U	0.05	1		0.071 F	0.05	1		0.05 U	0.05	1		0.05 U	0.05	1		0.05 U	0.05	1		0.05 U	0.05	1	
Chloromethane	0.06	1.3	--									0.06 U	0.06	1		0.06 U	0.06	1		0.06 U	0.06	1		0.06 U	0.06	1					
Dichloroethene, 1,1-	0.03	1.2	7	0.03 U	0.03	1		0.03 U	0.03	1		0.03 U	0.03	1		0.055 F	0.03	1		0.03 U	0.03	1		0.03 U	0.03	1		0.03 U	0.03	1	
Dichloroethene, cis-1,2-	0.09	1.2	70	0.09 U	0.09	1		0.09 U	0.09	1		59.0	0.18	2		0.09 U	0.09	1		0.09 U	0.09	1		0.09 U	0.09	1		0.09 U	0.09	1	
Dichloroethene, trans-1,2-	0.04	0.6	100	0.04 U	0.04	1		0.04 U	0.04	1		0.23 F	0.04	1		0.04 U	0.04	1		0.04 U	0.04	1		0.04 U	0.04	1		0.04 U	0.04	1	
Methylene chloride	0.2	2	5	0.2 U	0.2	1		0.2 U	0.2	1		0.2 U	0.2	1		0.2 U	0.2	1		0.2 U	0.2	1		0.2 U	0.2	1		0.61 F	0.2	1	
Tetrachloroethene	0.05	1.4	5	2.2	0.05	1		0.058 F	0.05	1		54.0	0.05	1		0.083 F	0.05	1		0.05 U	0.05	1		0.28 F	0.05	1		0.28 F	0.05	1	
Toluene	0.06	1.1	1000									0.45 F	0.06	1		0.14 F	0.06	1		0.75 F	0.06	1		0.22 F	0.06	1		0.22 F	0.06	1	
Trichloroethene	0.03	1	5	0.56 F	0.03	1		0.03 U	0.03	1		61.0	0.06	2		0.03 U	0.03	1		0.03 U	0.03	1		0.03 U	0.03	1		0.03 U	0.03	1	
Trimethylbenzene, 1,2,4-	0.05	1.3	--									0.05 U	0.05	1		0.097 F	0.05	1		0.35 F	0.05	1		0.067 F	0.05	1					
Trimethylbenzene, 1,3,5-	0.04	0.5	--									0.04 U	0.04	1		0.064 F	0.04	1		0.14 F	0.04	1		0.04 U	0.04	1		0.04 U	0.04	1	
Xylene, o-	0.04	1.1	10000									0.04 U	0.04	1		0.04 U	0.04	1		0.078 F	0.04	1		0.04 U	0.04	1		0.04 U	0.04	1	

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