

APPENDIX A

THREE RIVERS-SECOND NATURE  
RESULTS OF CHEMICAL FIELD MEASUREMENT AND  
LABORATORY ANALYSIS OF SAMPLES COLLECTED DURING  
THE PHASE 1 BIOASSESSMENT SURVEYS MAY/JUNE 2001

APPENDIX A  
THREE RIVERS SECOND NATURE WATER QUALITY DATA

					Water Temperature Deg C	Turbidity NTU	Color PT-CO Units	ORP MV	Sp Conductivity Field uhmos/cm	Sp Conductivity @25 C uhmos/cm	Dissolved Oxygen mg/l	Field pH pH Units
CODE	DESCRIPTION	DATE	TIME	DEPTH	00010	00076	00080	00090	00094	00095	00299	00400
TRS 1 0004	Guyasuta	5/30/01	0930	000	12.88	8.77	25	330	841	789	10.19	8.07
TRS 1 0006	Pine Creek	5/30/01	1400	000	17.16	2.69	25	315	965	891	10.74	8.14
TRS 1 0008	Sipes Run	5/30/01	1530	000	14.04	1.47	15	324	1256	1170	10.6	7.98
TRS 1 0010	Girty Run	5/31/01	1530	000	15.6	1.18	15	304	1266	1203	12.05	8.38
TRS 1 0012	Sawmill Run	5/31/01	915	000	12.21	1.06	17.5	328	1464	1393	11.12	7.83
TRS 1 0014	Chartiers Creek	5/31/01	1230	000		18.7	50			1024		
TRS 1 0014	Chartiers Creek	7/18/01	900	000	22.88			334	1329		9.92	7.46
TRS10015	Sheraden Park	7/18/01	1330	000	16.83	39.3	50	361	1122	1101	9.55	6.56
TRS 1 0016	Becks Run	5/24/01	0830	000	13.64	21.7	70	371	882	939	10.02	7.59

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CODE	DESCRIPTION	DATE	TIME	DEPTH	Laboratory pH pH Units	Total Alkalinity as CaCO3 mg/l	P. Alkalinity as CaCO3 mg/l	Hyd. Alkalinity as CaCO3 mg/l	Bicarb. Alkalinity as CaCO3 mg/l	Carb. Alkalinity as CaCO3 mg/l	Total Acidity as CaCO3 mg/l	Total NH3-N as N mg/l
TRS 1 0004	Guyasuta	5/30/01	0930	000	7.71	120.4					1.95	0.03
TRS 1 0006	Pine Creek	5/30/01	1400	000	7.55	92.6					3.91	0.04
TRS 1 0008	Sipes Run	5/30/01	1530	000	7.66	144.5					2.93	0.03
TRS 1 0010	Girty Run	5/31/01	1530	000	8.18	117					0.97	0.03
TRS 1 0012	Sawmill Run	5/31/01	915	000	7.45	98.1					5.85	0.06
TRS 1 0014	Chartiers Creek	5/31/01	1230	000	7.43	143.4					6.82	0.08
TRS 1 0014	Chartiers Creek	7/18/01	900	000								
TRS10015	Sheraden Park	7/18/01	1330	000	7.63	184.3					5.99	0.03
TRS 1 0016	Becks Run	5/24/01	0830	000	7.18	47.2					3.91	10.01

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THREE RIVERS SECOND NATURE WATER QUALITY DATA

CODE	DESCRIPTION	DATE	TIME	DEPTH	Total Kjeldahl Nitrogen mg/l	Total NO3+Nitrite as N mg/l	Total Phosphorus as P mg/l	Total Hardness as CaCO3 mg/l	Total Calcium mg/l	Total Magnesium mg/l	Total Sodium mg/l	Total Potassium mg/l
TRS 1 0004	Guyasuta	5/30/01	0930	000	0.54	1.06	0.05	247.1	78	16	69	3.6
TRS 1 0006	Pine Creek	5/30/01	1400	000	0.5	2.66	0.37	207.8	58	15	110	5
TRS 1 0008	Sipes Run	5/30/01	1530	000	0.29	1.7	0.03	341.2	96	22	120	6.4
TRS 1 0010	Girty Run	5/31/01	1530	000	0.47	1.42	0.04	328	84	19	120	4.4
TRS 1 0012	Sawmill Run	5/31/01	915	000	0.37	0.97	0.01	442	110	34	120	4.4
TRS 1 0014	Chartiers Creek	5/31/01	1230	000	0.87	1.46	0.13	378				
TRS 1 0014	Chartiers Creek	7/18/01	900	000								
TRS10015	Sheraden Park	7/18/01	1330	000	0.46	1.07	0.06	363.1	92	25	90	4.6
TRS 1 0016	Becks Run	5/24/01	0830	000	0.31	1.12	10.01	368	120	30	80	22

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					Total Arsenic ug/l	Total Barium ug/l	Total Beryllium ug/l	Total Cadmium ug/l	Total Chromium ug/l	Total Copper ug/l	Total Iron ug/l	Total Lead ug/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	01002	01007	01012	01027	01034	01042	01045	01051
TRS 1 0004	Guyasuta	5/30/01	0930	000	L4	60	L2	L1	L3	5	580	L3
TRS 1 0006	Pine Creek	5/30/01	1400	000	L4	52	L2	L1	L3	7	270	L3
TRS 1 0008	Sipes Run	5/30/01	1530	000	L4	83	L2	L1	L3	6	260	L3
TRS 1 0010	Girty Run	5/31/01	1530	000	L4	69	L2	L1	L3	L8	850	5
TRS 1 0012	Sawmill Run	5/31/01	915	000	L4	69	L2	L1	L3	L8	130	L3
TRS 1 0014	Chartiers Creek	5/31/01	1230	000	L4	39	L2	L1	L3	L5	350	L3
TRS 1 0014	Chartiers Creek	7/18/01	900	000								
TRS10015	Sheraden Park	7/18/01	1330	000	L4	54	L2	L1	L3	L5	1700	11
TRS 1 0016	Becks Run	5/24/01	0830	000	L4	53	L2	L1	L3	L5	80	L3

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					Total Manganese ug/l	Total Nickel ug/l	Total Silver ug/l	Total Zinc ug/l	Total Antimony ug/l	Total Aluminum ug/l	Total Selenium ug/l	H. Perox. Acid CaCO3 mg/l	Mercury T. ug/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	01055	01067	01077	01092	01097	01105	01147	70508	71900
TRS 1 0004	Guyasuta	5/30/01	0930	000	30	L10	L2	20	L5	210	L10		L0.2
TRS 1 0006	Pine Creek	5/30/01	1400	000	56	L10	L2	20	L5	110	L10		L0.2
TRS 1 0008	Sipes Run	5/30/01	1530	000	36	L10	L2	20	L5	130	L10		L0.2
TRS 1 0010	Girty Run	5/31/01	1530	000	82	L10	L2	20	L3	510	L30		L0.2
TRS 1 0012	Sawmill Run	5/31/01	915	000	80	11	L2	50	L5	120	L10		L0.2
TRS 1 0014	Chartiers Creek	5/31/01	1230	000	65	L10	L2	20	L5	170	L10		L0.2
TRS 1 0014	Chartiers Creek	7/18/01	900	000									
TRS10015	Sheraden Park	7/18/01	1330	000	210	L10	L2	30	L5	1300	L10		L0.2
TRS 1 0016	Becks Run	5/24/01	0830	000	20	L10	L2	L10	L5	310	L10		L0.2

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CODE	DESCRIPTION	DATE	TIME	DEPTH	Water Temperature Deg C	Turbidity NTU	Color PT-CO Units	ORP MV	Sp Conductivity Field uhmos/cm	Sp Conductivity @25 C uhmos/cm	Dissoolved Oxygen mg/l	Field pH pH Units
TRIS 1 0018	Glass Run	5/29/01	0830	000	13.74	1.05	7.5	355	903	841	7.06	7.35
TRIS 1 0020	Streets Run	5/25/01	1215	000	14.41	1.2	7.5	337	1218	1141	9.39	7.83
TRIS 1 0022	West Run	5/24/01	1320	000	14.9	0.85	5	357	1165	1116	9.12	7.55
TRIS 1 0024	Homestead Run	5/25/01	0915	000	14.72	1.21	7.5	349	833	741	9.24	7.45
TRIS 1 0026	Tassey Hollow	5/29/01	1030	000	13.1	6.11	12.5	351	1459	1351	8.26	7.77
TRIS 1 0028	Four Mile Run	5/29/01	1400	000	16.04	4.87	15	334	1569	1430	7.84	7.69
TRIS 1 0030	Nine Mile Run	6/18/01	0930	000	18.88	0.817	2.5	204	1452	1395	6.26	10.43
TRIS 1 0034	Thompson Run	6/13/01	0945	000	19.47	4.65	25	246	1145	1230	9.71	8.08
TRIS 1 0038	Sandy Creek	6/13/01	1300	000	20.5	2.15	7.5	278	1568	1522	9.95	8.15

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CODE	DESCRIPTION	DATE	TIME	DEPTH	Laboratory pH pH Units	Total Alkalinity as CaCO3 mg/l	P. Alkalinity as CaCO3 mg/l	Hyd. Alkalinity as CaCO3 mg/l	Bicarb. Alkalinity as CaCO3 mg/l	Carb. Alkalinity as CaCO3 mg/l	Total Acidity as CaCO3 mg/l	Total NH3-N as N mg/l
TRS 1 0018	Glass Run	5/29/01	0830	000	7.35	140.77					4.88	0.01
TRS 1 0020	Streets Run	5/25/01	1215	000	7.45	77.8					5.86	0.03
TRS 1 0022	West Run	5/24/01	1320	000	7.57	90.8					2.93	0.02
TRS 1 0024	Homestead Run	5/25/01	0915	000	7.4	79.65					3.91	0.01
TRS 1 0026	Tassey Hollow	5/29/01	1030	000	7.74	151.9					3.91	0.02
TRS 1 0028	Four Mile Run	5/29/01	1400	000	7.49	175.96					5.86	0.03
TRS 1 0030	Nine Mile Run	6/18/01	0930	000	10.37	89.45	46.7	3.9	0	85.5	0	0.43
TRS 1 0034	Thompson Run	6/13/01	0945	000	7.89	42.41					1.98	0.08
TRS 1 0038	Sandy Creek	6/13/01	1300	000	7.61	77.12					1.98	0.02

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CODE	DESCRIPTION	DATE	TIME	DEPTH	Total Kjeldahl Nitrogen mg/l	Total NO3+Nitrite as N mg/l	Total Phosphorus as P mg/l	Total Hardness as CaCO3 mg/l	Total Calcium mg/l	Total Magnesium mg/l	Total Sodium mg/l	Total Potassium mg/l
TRS 1 0018	Glass Run	5/29/01	0830	000	0.16	0.97	L0.01	333.3	100	24	53	2.9
TRS 1 0020	Streets Run	5/25/01	1215	000	0.56	0.93	0.26	423.5	110	29	63	5.1
TRS 1 0022	West Run	5/24/01	1320	000	0.32	2.51	0.04	317.6	95	23	120	4.4
TRS 1 0024	Homestead Run	5/25/01	0915	000	L0.1	2.4	0.04	209.8	63	15	81	4.1
TRS 1 0026	Tassey Hollow	5/29/01	1030	000	0.38	2.17	L0.03	423.5	130	25	130	5.1
TRS 1 0028	Four Mile Run	5/29/01	1400	000	0.38	0.85	0.04	494.1	140	35	110	3.9
TRS 1 0030	Nine Mile Run	6/18/01	0930	000	0.44	7.58	0.05	300	120		130	85
TRS 1 0034	Thompson Run	6/13/01	0945	000	0.66	4.59	0.39	433.1	110	28	87	12
TRS 1 0038	Sandy Creek	6/13/01	1300	000	0.17	0.69	L10	562.9	160	39	100	12

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					Total Arsenic ug/l	Total Barium ug/l	Total Beryllium ug/l	Total Cadmium ug/l	Total Chromium ug/l	Total Copper ug/l	Total Iron ug/l	Total Lead ug/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	1002	1007	1012	1027	1034	1042	1045	1051
TRS 1 0018	Glass Run	5/29/01	830	0	L4	49	L2	L1	L3	5	80	L3
TRS 1 0020	Streets Run	5/25/01	1215	0	L4	44	L2	L1	3	9	3400	4
TRS 1 0022	West Run	5/24/01	1320	0	L4	44	L2	L1	4	L5	100	L3
TRS 1 0024	Homestead Run	5/25/01	915	0	L4	33	L2	L1	4	8	140	L3
TRS 1 0026	Tassey Hollow	5/29/01	1030	0	L4	66	L2	L1	L3	11	310	L3
TRS 1 0028	Four Mile Run	5/29/01	1400	0	L4	96	L2	L1	L3	5	290	4
TRS 1 0030	Nine Mile Run	6/18/01	930	0	L4	55	L2	L1	4	L5	40	L3
TRS 1 0034	Thompson Run	6/13/01	945	0	L4	26	L2	L1	L3	9	230	L3
TRS 1 0038	Sandy Creek	6/13/01	1300	0	L4	43	L2	L1	L3	L5	590	L3

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					Total Manganese ug/l	Total Nickel ug/l	Total Silver ug/l	Total Zinc ug/l	Total Antimony ug/l	Total Aluminum ug/l	Total Selenium ug/l	H. Perox. Acid CaCO3 mg/l	Mercury T. ug/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	1055	1067	1077	1092	1097	1105	1147	70508	71900
TRS 1 0018	Glass Run	5/29/01	830	0	5	L10	L2	20	L5	80	L10		L0.2
TRS 1 0020	Streets Run	5/25/01	1215	0	200	22	L2	200	L5	1600	L10		L0.2
TRS 1 0022	West Run	5/24/01	1320	0	15	10	L2	20	L5	290	L10		L0.2
TRS 1 0024	Homestead Run	5/25/01	915	0	14	L10	L2	20	L5	1300	L10		L0.2
TRS 1 0026	Tassey Hollow	5/29/01	1030	0	24	L10	L2	20	L5	260	L10		L0.2
TRS 1 0028	Four Mile Run	5/29/01	1400	0	150	L10	L2	20	L5	160	L10		L0.2
TRS 1 0030	Nine Mile Run	6/18/01	930	0	16	L10	L2	L20	L5	490	L10		L0.2
TRS 1 0034	Thompson Run	6/13/01	945	0	390	40	L2	50	L5	1300	L10		L0.2
TRS 1 0038	Sandy Creek	6/13/01	1300	0	71	L10	L2	L10	L5	510	L10		L0.2

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					Water Temperature Deg C	Turbidity NTU	Color PT-CO Units	ORP MV	Sp Conductivity Field uhmos/cm	Sp Conductivity @25 C uhmos/cm	Dissolved Oxygen mg/l	Field pH pH Units
CODE	DESCRIPTION	DATE	TIME	DEPTH	10	76	80	90	94	95	299	400
TRS 1 0040	Pine Run Creek	6/13/01	1500	000	21.75	2.57	7.5		1108	1039	8.27	7.89
TRS 1 0042	Peters Creek US Clairton WWTP	6/19/01	1030	000	20.33	3.74	25	259	1190	1162	9.85	7.85
TRS 1 0043	Peters Creek DS Clairton WWTP	6/19/01	0930	000	19.95	6.09	20	250	1136	1110	9.18	7.79
TRS 1 0044	Lobb Run	6/14/01	0915	000	19.81	2.28	15	311	936	896	9.11	7.93
TRS 1 0046	Coal Bluff	6/14/01	1200	000	17.86	10.5	35	306	924	871	8.96	7.96
TRS 1 0047	Coal Buff downstream of acid mine drainage	6/14/01	1345	000	15.39	74.4	400	102	2009	1955	9.37	6.79
TRS 1 0050	Mingo Creek	6/14/01	1530	000	22.24	1.28	12.5	318	824	779	10.09	7.98
TRS 1 0052	Turtle Creek	6/18/01	1145	000	24.99	6.67	24.99	235	925	902	9.8	8.79

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TRS 1 0040	Pine Run Creek	6/13/01	1500	000	7.48	57.84					4.95	0.05
TRS 1 0042	Peters Creek US Clairton WWTP	6/19/01	1030	000	7.75	120.52					3.84	0.17
TRS 1 0043	Peters Creek DS Clairton WWTP	6/19/01	0930	000	7.5	106.91					5.75	0.18
TRS 1 0044	Lobb Run	6/14/01	0915	000	7.95	148.45					3.96	0.03
TRS 1 0046	Coal Bluff	6/14/01	1200	000	7.93	224.92					3.96	0.01
TRS 1 0047	Coal Buff downstream of acid mine drainage	6/14/01	1345	000	5.6	7.33					173.25	0.59
TRS 1 0050	Mingo Creek	6/14/01	1530	000	8.15	185.08					0.99	0.03
TRS 1 0052	Turtle Creek	6/18/01	1145	000	8.92	85.53	9.23		67.06	18.47	0	0.03

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					Total Kjeldahl Nitrogen mg/l	Total NO3+Nitrite as N mg/l	Total Phosphorus as P mg/l	Total Hardness as CaCO3 mg/l	Total Calcium mg/l	Total Magnesium mg/l	Total Sodium mg/l	Total Potassium mg/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	625	630	665	900	916	927	929	937
TRS 1 0040	Pine Run Creek	6/13/01	1500	000	0.38	6.77	1.23	369.5	93	27	86	8.8
TRS 1 0042	Peters Creek US Clairton WWTP	6/19/01	1030	000	0.49	3.69	0.4	420	110	33	83	8
TRS 1 0043	Peters Creek DS Clairton WWTP	6/19/01	0930	000	0.88	4.82	0.55	389	110	30	82	8.3
TRS 1 0044	Lobb Run	6/14/01	0915	000	0.44	0.41	LO.01	387.4	95	32	49	2.7
TRS 1 0046	Coal Bluff	6/14/01	1200	000	0.33	1.13	0.05	335.8	90	27	66	2.9
TRS 1 0047	Coal Buff downstream of acid mine drainage	6/14/01	1345	000	0.72	0.15	0.02	688.7	210	47	140	4.1
TRS 1 0050	Mingo Creek	6/14/01	1530	000	0.26	0.58	LO.01	274.2	69	24	75	2.3
TRS 1 0052	Turtle Creek	6/18/01	1145	000	0.57	2.26	0.11	298.1	81	21	80	5.2

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					Total Arsenic ug/l	Total Barium ug/l	Total Beryllium ug/l	Total Cadmium ug/l	Total Chromium ug/l	Total Copper ug/l	Total Iron ug/l	Total Lead ug/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	1002	1007	1012	1027	1034	1042	1045	1051
TRS 1 0040	Pine Run Creek	6/13/01	1500	000	L4	28	L2	L1	L3	14	240	L3
TRS 1 0042	Peters Creek US Clairton WWTP	6/19/01	1030	000	L4	53	L2	L1	L3	L5	830	L3
TRS 1 0043	Peters Creek DS Clairton WWTP	6/19/01	0930	000	L4	49	L2	L1	L3	6	870	L3
TRS 1 0044	Lobb Run	6/14/01	0915	000	L4	57	L2	L1	L3	6	170	L3
TRS 1 0046	Coal Bluff	6/14/01	1200	000	L4	90	L2	L1	L3	5	510	L3
TRS 1 0047	Coal Buff downstream of acid mine drainage	6/14/01	1345	000	21	16	L2	4	L3	L5	78000	44
TRS 1 0050	Mingo Creek	6/14/01	1530	000	L4	72	L2	L1	L3	L5	130	L3
TRS 1 0052	Turtle Creek	6/18/01	1145	000	L4	43	L2	L1	L3	L5	730	L3

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					Total Manganese ug/l	Total Nickel ug/l	Total Silver ug/l	Total Zinc ug/l	Total Antimony ug/l	Total Aluminum ug/l	Total Selenium ug/l	H.Perox.Acid CaCO3 mg/l	Mercury T. ug/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	1055	1067	1077	1092	1097	1105	1147	70508	71900
TRS 1 0040	Pine Run Creek	6/13/01	1500	000	33	20	L2	50	L5	620	L10		L0.2
TRS 1 0042	Peters Creek US Clairton WWTP	6/19/01	1030	000	190	L10	L2	20	L5	210	L10		L0.2
TRS 1 0043	Peters Creek DS Clairton WWTP	6/19/01	0930	000	180	L10	L2	20	L5	260	L10		L0.2
TRS 1 0044	Lobb Run	6/14/01	0915	000	40	L10	L2	10	L5	520	L10		L0.2
TRS 1 0046	Coal Bluff	6/14/01	1200	000	22	L10	L2	L10	L5	330	L10		L0.2
TRS 1 0047	Coal Buff downstream of acid mine drainage	6/14/01	1345	000	1100	130	L2	170	L5	7500	10	125.7181	L0.2
TRS 1 0050	Mingo Creek	6/14/01	1530	000	22	L10	L2	L10	L5	180	L10		L0.2
TRS 1 0052	Turtle Creek	6/18/01	1145	000	96	L10	L2	L20	L5	320	L10		L0.2

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					Water Temperature Deg C	Turbidity NTU	Color PT-CO Units	ORP MV	Sp Conductivity Field uhmos/cm	Sp Conductivity @25 C uhmos/cm	Dissolved Oxygen mg/l	Field pH pH Units
CODE	DESCRIPTION	DATE	TIME	DEPTH	10	76	80	90	94	95	299	400
TRS 1 0054	Thompson Run (Turtle Creek)	6/18/01	1330	0	22.95	3.67	5	295	1565	1498	10.16	7.9
TRS 1 0056	Crooked Run	6/18/01	1600	0	22.1	0.452	2.5	292	1202	1167	8.83	8.04
TRS 1 0058	Pigeon Creek	6/19/01	1530	0	24.6	3	15	257	2265	2180	9.86	7.91
TRS 1 0060	Beckett Run	6/21/01	1200	0	18.68	26	50	298	883	855	8.76	7.49
TRS 1 0062	Sunfish Creek	6/21/01	1315	0	18.64	189	240	134	1665	1611	8.37	7.33
TRS 1 0064	Bunola Hollow	6/21/01	1500	0	19.15	20.4	30	285	1139	1108	8.34	7.4
TRS 1 0066	Kelley Run	6/26/01	1130	0	17.95	8.51	15	289	942	926	9.76	7.24
TRS 1 0068	Perry Mill	6/26/01	1345	0	20.77	2.6	5	284	1101	1106	9.84	7.54
TRS 1 0072	Fallen Timber	6/26/01	1515	0	22.9	2.06	7.5	241	1143	1101	9.15	7.61

APPENDIX A  
THREE RIVERS SECOND NATURE WATER QUALITY DATA

CODE	DESCRIPTION	DATE	TIME	DEPTH	Laboratory pH pH Units 403	Total Alkalinity as CaCO3 mg/l 410	P.Alkalinity as CaCO3 mg/l 415	Hyd.Alkalinity as CaCO3 mg/l 420	Bicarb.Alkalinity CaCO3 mg/l 425	Carb.Alkalinity as CaCO3 mg/l 430	Total Acidity as CaCO3 mg/l 435	Total NH3-N as N mg/l 610
TRS 1 0054	Thompson Run (Turtle Creek)	6/18/01	1330	0	7.57	50.54					3.83	0.02
TRS 1 0056	Crooked Run	6/18/01	1600	0	7.86	93.39					3.84	0.01
TRS 1 0058	Pigeon Creek	6/19/01	1530	0	7.98	204.1					2.88	0.06
TRS 1 0060	Beckett Run	6/21/01	1200	0	7.91	212.39					3.93	0.06
TRS 1 0062	Sunfish Creek	6/21/01	1315	0	7.6	269.45					9.83	10.32
TRS 1 0064	Bunola Hollow	6/21/01	1500	0	7.49	125.53					5.9	0.05
TRS 1 0066	Kelley Run	6/26/01	1130	0	7.24	188.94					11.94	0.04
TRS 1 0068	Perry Mill	6/26/01	1345	0	7.94	269.91					3.98	0.03
TRS 1 0072	Fallen Timber	6/26/01	1515	0	7.88	179.94					2.99	0.02

APPENDIX A  
THREE RIVERS SECOND NATURE WATER QUALITY DATA

CODE	DESCRIPTION	DATE	TIME	DEPTH	Total Kjeldahl Nitrogen mg/l	Total NO3+Nitrite as N mg/l	Total Phosphorus as P mg/l	Total Hardness as CaCO3 mg/l	Total Calcium mg/l	Total Magnesium mg/l	Total Sodium mg/l	Total Potassium mg/l
TRS 1 0054	Thompson Run (Turtle Creek)	6/18/01	1330	0	0.26	0.86	10.01	503.2	150	37	120	7.2
TRS 1 0056	Crooked Run	6/18/01	1600	0	0.28	1.69	0.01	394.8	120	20	85	7.2
TRS 1 0058	Pigeon Creek	6/19/01	1530	0	0.46	0.5	0.1	438.7	120	37	320	5.4
TRS 1 0060	Beckett Run	6/21/01	1200	0	0.35	0.51	0.02	316.2	80	26	69	2.9
TRS 1 0062	Sunfish Creek	6/21/01	1315	0	0.63	0.29	0.04	351.4	95	26	220	13.7
TRS 1 0064	Bunola Hollow	6/21/01	1500	0	0.32	1.08	0.02	621.6	160	63	26	3
TRS 1 0066	Kelley Run	6/26/01	1130	0	0.29	0.6	0.02	428	110	34	51	3.6
TRS 1 0068	Perry Mill	6/26/01	1345	0	0.3	0.45	0.02	344	88	29	130	3
TRS 1 0072	Fallen Timber	6/26/01	1515	0	0.3	0.7	0.01	424	110	34	89	3.8

APPENDIX A  
THREE RIVERS SECOND NATURE WATER QUALITY DATA

					Total Arsenic ug/l	Total Barium ug/l	Total Beryllium ug/l	Total Cadmium ug/l	Total Chromium ug/l	Total Copper ug/l	Total Iron ug/l	Total Lead ug/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	1002	1007	1012	1027	1034	1042	1045	1051
TRS 1 0054	Thompson Run (Turtle Creek)	6/18/01	1330	0	L4	45	L2	L1	L3	L5	120	L3
TRS 1 0056	Crooked Run	6/18/01	1600	0	L4	53	L2	L1	L3	L5	60	L3
TRS 1 0058	Pigeon Creek	6/19/01	1530	0	L4	71	L2	L1	L3	L5	480	L3
TRS 1 0060	Beckett Run	6/21/01	1200	0	L4	66	L2	L1	3	L5	4100	4
TRS 1 0062	Sunfish Creek	6/21/01	1315	0	5	48	L2	1	L3	15	24000	12
TRS 1 0064	Bunola Hollow	6/21/01	1500	0	L4	60	L2	L1	L3	L5	950	L3
TRS 1 0066	Kelley Run	6/26/01	1130	0	L4	64	L2	1	L3	30	410	7
TRS 1 0068	Perry Mill	6/26/01	1345	0	L4	55	L2	L1	L3	L5	380	L3
TRS 1 0072	Fallen Timber	6/26/01	1515	0	L4	56	L2	1	L3	8	210	L3

APPENDIX A  
THREE RIVERS SECOND NATURE WATER QUALITY DATA

CODE	DESCRIPTION	DATE	TIME	DEPTH	Total Manganese ug/l 1055	Total Nickel ug/l 1067	Total Silver ug/l 1077	Total Zinc ug/l 1092	Total Antimony ug/l 1097	Total Aluminum ug/l 1105	Total Selenium ug/l 1147	H. Perox. Acid CaCO3 mg/l 70508	Mercury T. ug/l 71900
TRS 1 0054	Thompson Run (Turtle Creek)	6/18/01	1330	0	170	20	L2	20	L5	1400	L10		L0.2
TRS 1 0056	Crooked Run	6/18/01	1600	0	7	L10	L2	20	L5	150	L10		L0.2
TRS 1 0058	Pigeon Creek	6/19/01	1530	0	54	L10	L2	L20	L5	110	L10		L0.2
TRS 1 0060	Beckett Run	6/21/01	1200	0	77	L10	L2	20	L5	420	L10		L0.2
TRS 1 0062	Sunfish Creek	6/21/01	1315	0	300	L10	L2	20	L5	310	L10		L0.2
TRS 1 0064	Bunola Hollow	6/21/01	1500	0	420	20	L2	20	L5	920	L10		L0.2
TRS 1 0066	Kelley Run	6/26/01	1130	0	130	50	L2	70	L5	1800	L10		L0.2
TRS 1 0068	Perry Mill	6/26/01	1345	0	82	L10	L2	20	L5	750	L10		L0.2
TRS 1 0072	Fallen Timber	6/26/01	1515	0	19	20	L2	40	L5	420	L10		L0.2

APPENDIX A  
THREE RIVERS SECOND NATURE WATER QUALITY DATA

					Water Temperature Deg C	Turbidity NTU	Color PT-CO Units	ORP MV	Sp Conductivity Field uhmos/cm	Sp Conductivity @25 C uhmos/cm	Dissolved Oxygen mg/l	Field pH pH Units
CODE	DESCRIPTION	DATE	TIME	DEPTH	10	76	80	90	94	95	299	400
TRS 1 0072	Fallen Timber	6/26/01	1515	0	22.9	2.06	7.5	241	1143	1101	9.15	7.61
TRS 1 0074	Wylie Run	6/26/01	1600	000	21.61	4.44	7.5	244	1347	1285	8.61	7.35
TRS 1 0078	Dry Run	6/21/01	1000	000	18.48	22	30	309	1006	967	8.71	7.37
TRS g 0035	Seep flowing into Thompson Run at low elevation along right bank	6/13/01	1130	000	14.1	0.318	7.5	124	2561	2260	7.3	11.62
TRS g 0036	Pipe discharge entering Thompson Run on right bank	6/13/01	1140	000	18.51	3.92	25	248	849	799	5.81	8.31

APPENDIX A  
THREE RIVERS SECOND NATURE WATER QUALITY DATA

					Laboratory pH pH Units	Total Alkalinity as CaCO3 mg/l	P. Alkalinity as CaCO3 mg/l	Hyd. Alkalinity as CaCO3 mg/l	Bicarb. Alkalinity y CaCO3 mg/l	Carb. Alkalinity as CaCO3 mg/l	Total Acidity as CaCO3 mg/l	Total NH3-N as N mg/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	403	410	415	420	425	430	435	610
TRS 1 0074	Wylie Run	6/26/01	1600	000	7.34	59.77					5.97	0.06
TRS 1 0078	Dry Run	6/21/01	1000	000	7.49	240.92					3.93	0.06
TRS g 0035	Seep flowing into Thompson Run at low elevation along right bank	6/13/01	1130	000	11.32	181.22	179.3	177.37	0	3.86	0	
TRS g 0036	Pipe discharge entering Thompson Run on right bank	6/13/01	1140	000	6.86	94.47					9.9	

APPENDIX A  
THREE RIVERS SECOND NATURE WATER QUALITY DATA

					Total Kjeldahl Nitrogen mg/l	Total NO3+Nitrite as N mg/l	Total Phosphorus as P mg/l	Total Hardness as CaCO3 mg/l	Total Calcium mg/l	Total Magnesium mg/l	Total Sodium mg/l	Total Potassium mg/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	625	630	665	900	916	927	929	937
TRS 1 0074	Wylie Run	6/26/01	1600	000	0.56	0.68	0.15	536	150	40	80	3.4
TRS 1 0078	Dry Run	6/21/01	1000	000	0.44	0.87	0.06	377	110	28	76	3.4
TRS g 0035	Seep flowing into Thompson Run at low elevation along right bank	6/13/01	1130	000				516.6	210	10.05	140	180
TRS g 0036	Pipe discharge entering Thompson Run on right bank	6/13/01	1140	000				218.5	58	14	77	7.5

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THREE RIVERS SECOND NATURE WATER QUALITY DATA

					Total Arsenic ug/l	Total Barium ug/l	Total Beryllium ug/l	Total Cadmium ug/l	Total Chromium ug/l	Total Copper ug/l	Total Iron ug/l	Total Lead ug/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	1002	1007	1012	1027	1034	1042	1045	1051
TRS 1 0074	Wylie Run	6/26/01	1600	000	L4	48	L2	1	L3	11	290	L3
TRS 1 0078	Dry Run	6/21/01	1000	000	L4	73	L2	L1	L3	L5	890	3
TRS g 0035	Seep flowing into Thompson Run at low elevation along right bank	6/13/01	1130	000	27	35	L2	L1	L3	L5	380	L3
TRS g 0036	Pipe discharge entering Thompson Run on right bank	6/13/01	1140	000	L4	27	L2	L1	L3	7	250	L3

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THREE RIVERS SECOND NATURE WATER QUALITY DATA

					Total Manganese ug/l	Total Nickel ug/l	Total Silver ug/l	Total Zinc ug/l	Total Antimony ug/l	Total Aluminum ug/l	Total Selenium ug/l	H.Perox.Acrid CaCO3 mg/l	Mercury T. ug/l
CODE	DESCRIPTION	DATE	TIME	DEPTH	1055	1067	1077	1092	1097	1105	1147	70508	71900
TRS 1 0074	Wylie Run	6/26/0 1	1600	000	310	50	L2	50	L5	1100	L10		L0.2
TRS 1 0078	Dry Run	6/21/0 1	1000	000	53	L10	L2	L0.01	L5	760	L10		L0.2
TRS g 0035	Seep flowing into Thompson Run at low elevation along right bank	6/13/0 1	1130	000	L3	L10	L2	L10	L5	120	20		L0.2
TRS g 0036	Pipe discharge entering Thompson Run on right bank	6/13/0 1	1140	000	250	L10	L2	40	L5	210	L10	-84.1601	L0.2