

## Stream Monitoring Data

Date	Pioneer Creek			Sarah Creek		
	Level ft	Velocity ft/s	Flow Rate cfs	Level ft	Velocity ft/s	Flow Rate cfs
5/5/2004	----	----	----	0.966	2.48	5.91
5/6/2004	----	----	----	0.908	2.47	5.32
5/7/2004	----	----	----	0.912	2.48	5.36
5/8/2004	----	----	----	0.855	2.29	4.78
5/9/2004	----	----	----	0.647	1.67	2.85
5/10/2004	----	----	----	0.356	0.8	0.39
5/11/2004	----	----	----	0.359	0.84	0.32
5/12/2004	----	----	----	0.392	0.91	0.62
5/13/2004	----	----	----	0.458	1.27	1.1
5/14/2004	----	----	----	0.416	1.14	0.74
5/15/2004	----	----	----	0.424	1.15	0.8
5/16/2004	----	----	----	0.424	1.12	0.8
5/17/2004	----	----	----	0.605	1.95	2.4
5/18/2004	----	----	----	0.739	2.24	3.65
5/19/2004	3.815	0.26	10.21	0.859	2.11	4.86
5/20/2004	3.726	0.27	10.4	0.978	2.14	6.03
5/21/2004	3.705	0.25	9.77	1.003	2.25	6.3
5/22/2004	3.745	0.28	11.06	1.012	2.27	6.39
5/23/2004	4.743	0.73	38.3	1.204	2.5	8.51
5/24/2004	5.628	1.36	77.63	1.173	2.64	8.17
5/25/2004	5.229	1.15	61.79	1.033	2.93	6.61
5/26/2004	4.795	0.93	46.33	1.088	2.9	7.2
5/27/2004	4.735	0.85	41.75	1.176	2.87	8.15
5/28/2004	4.618	0.77	36.87	1.214	2.88	8.57
5/29/2004	4.763	0.83	41.04	1.373	2.82	10.41
5/30/2004	5.734	1.29	74.9	1.879	2.49	16.83
5/31/2004	6.244	1.63	99.97	2.082	2.53	19.57
6/1/2004	6.233	1.52	92.96	2.176	2.79	20.91
6/2/2004	6.02	1.45	86.97	2.153	2.31	20.58
6/3/2004	5.67	1.33	76.01	2.169	2.62	20.82
6/4/2004	5.336	1.2	65.64	2.248	2.98	21.97
6/5/2004	5.092	1.07	55.93	2.21	1.98	21.41
6/6/2004	5.13	1.06	55.91	2.271	2.6	22.31
6/7/2004	5.034	0.98	51.09	2.028	3.22	18.86
6/8/2004	4.933	0.91	46.24	1.833	3.53	16.15
6/9/2004	5.956	1.13	66.81	1.989	3.8	18.27
6/10/2004	6.428	1.01	62.91	1.959	3.73	17.86
6/11/2004	6.458	1.04	83.83	2.014	3.81	18.62
6/12/2004	6.734	0.33	127.37	2.153	4.12	20.58
6/13/2004	6.498	0.42	116.32	2.137	4.03	20.36
6/14/2004	6.366	0.82	105.56	2.126	3.97	20.2
6/15/2004	6.01	1.24	84.42	2.108	3.82	19.94
6/16/2004	5.734	1.27	74.2	2.072	3.81	19.42
6/17/2004	5.536	1.23	69.17	2.036	3.68	18.92
6/18/2004	5.384	1.23	67.69	1.977	3.58	18.11
6/19/2004	5.266	0.89	48.23	1.933	3.43	17.5

## ***Stream Monitoring Data***

### Pioneer Creek

### Sarah Creek

Date	Level	Velocity	Flow Rate	Level	Velocity	Flow Rate
	ft	ft/s	cfs		ft	ft/s
6/20/2004	5.172	0.65	55.72	1.878	3.3	16.76
6/21/2004	5.096	0	55.97	1.814	3.21	15.9
6/22/2004	5.027	0	53.38	1.753	3.15	15.1
6/23/2004	4.968	0	51.17	1.683	3.05	14.2
6/24/2004	4.918	0	49.35	1.605	2.97	13.21
6/25/2004	4.865	0	47.41	1.48	2.86	11.81
6/26/2004	4.818	0	45.69	1.405	2.77	10.9
6/27/2004	4.783	0	44.45	1.375	2.66	10.43
6/28/2004	4.758	0.12	43.57	1.089	2.26	7.98
6/29/2004	4.715	0.26	42.04	0	0	0
6/30/2004	4.687	0.26	41.06	0	0	0
7/1/2004	4.691	0.26	41.19	0.413	0.84	2.96
7/2/2004	4.67	0.26	40.47	0	0	0
7/3/2004	4.672	0.26	40.55	0.157	0.31	1.13
7/4/2004	4.79	0.26	44.71	0.259	0.51	1.86
7/5/2004	4.842	0.26	46.55	0	0	0
7/6/2004	4.904	0.26	48.82	0.393	0.79	2.73
7/7/2004	5.03	0.26	53.45	0	0	0
7/8/2004	5.027	0.26	53.37	0.761	1.05	5.83
7/9/2004	4.966	0.26	51.1	1.394	1.91	10.65
7/10/2004	4.906	0.26	48.89	1.369	1.84	10.35
7/11/2004	5.444	0.26	70.03	1.636	1.96	13.63
7/12/2004	5.979	0.26	92.11	1.454	1.93	11.4
7/13/2004	5.913	0.26	89.22	1.32	1.81	9.78
7/14/2004	5.756	0.26	82.47	1.32	1.81	9.78
7/15/2004	5.634	0.26	77.34	1.32	1.81	9.78
7/16/2004	5.52	0.26	72.63	1.32	1.81	9.78
7/17/2004	5.41	0.26	68.19	1.32	1.81	9.78
7/18/2004	5.315	0.26	64.43	1.32	1.81	9.78
7/19/2004	5.237	0.26	61.38	1.32	1.81	9.78
7/20/2004	5.18	0.26	59.15	1.314	1.75	9.72
7/21/2004	5.142	0.26	57.72	1.275	1.62	9.27
7/22/2004	5.099	0.26	56.07	1.232	1.59	8.78
7/23/2004	5.051	0.26	54.27	1.175	1.52	8.2
7/24/2004	5.006	0.26	52.58	1.137	1.34	7.78
7/25/2004	4.961	0.26	50.9	1.09	1.23	7.22
7/26/2004	4.912	0.26	49.11	1.066	1.15	6.96
7/27/2004	4.851	0.26	46.91	1.048	1.12	6.76
7/28/2004	4.452	0.26	27.86	1.053	1.08	6.82
7/29/2004	4.113	0.26	11.14	0.915	0.68	5.39
7/30/2004	4.113	0.26	11.14	0.771	0.45	3.96
7/31/2004	4.113	0.26	11.14	0.609	0.13	2.44
8/1/2004	4.113	0.26	11.14	0.601	0.1	2.36
8/2/2004	4.113	0.26	11.14	0.548	0.1	1.89
8/3/2004	4.113	0.26	11.14	0.448	0.11	1.01
8/4/2004	4.113	0.26	11.14	0.421	0.1	0.78

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Date	Pioneer Creek			Sarah Creek		
	Level ft	Velocity ft/s	Flow Rate cfs	Level ft	Velocity ft/s	Flow Rate cfs
8/5/2004	4.113	0.26	11.14	0.381	0.1	0.43
8/6/2004	4.101	0.26	11.11	0.294	0.1	0.13
8/7/2004	4.081	0.26	11.05	0.289	0.1	0.04
8/8/2004	4.03	0.26	10.91	0.258	0.1	0.04
8/9/2004	3.94	0.26	10.67	0.243	0.1	0.03
8/10/2004	3.873	0.26	10.48	0.238	0.1	0.03
8/11/2004	3.915	0.22	8.96	0.242	0.1	0.04
8/12/2004	3.932	0.18	7.34	0.253	0.1	0.03
8/13/2004	3.882	0.19	7.76	0.274	0.1	0.05
8/14/2004	3.836	0.19	7.72	0.235	0.1	0.03
8/15/2004	3.775	0.19	7.48	0.275	0.1	0.06
8/16/2004	3.765	0.18	7.06	0.381	0.1	0.44
8/17/2004	3.734	0.17	6.77	0.37	0.1	0.34
8/18/2004	3.692	0.17	6.51	0.353	0.1	0.2
8/19/2004	3.703	0.13	8.74	0.24	0.1	0.05
8/20/2004	3.709	0.12	10.21	0.141	0.1	0.01
8/21/2004	3.673	0.12	9.18	0.129	0.1	0.01
8/22/2004	3.688	0.12	9.62	0.155	0.1	0.02
8/23/2004	3.673	0.12	9.2	0.149	0.1	0.02
8/24/2004	3.664	0.12	8.95	0.155	0.1	0.02
8/25/2004	3.598	0.12	7.13	0.177	0.11	0.03
8/26/2004	3.551	0.12	5.83	0.399	0.21	0.6
8/27/2004	3.549	0.12	5.79	0.347	0.12	0.31
8/28/2004	3.548	0.12	5.75	0.238	0.1	0.03
8/29/2004	3.543	0.12	5.63	0.207	0.1	0.02
8/30/2004	3.518	0.13	5.02	0.159	0.1	0.02
8/31/2004	3.486	0.13	4.82	0.132	0.1	0.01
9/1/2004	3.497	0.14	5.09	0.123	0.1	0.01
9/2/2004	3.554	0.12	4.55	0.101	0.1	0.01
9/3/2004	3.685	0.17	6.58	0.075	0.1	0.01
9/4/2004	3.708	0.15	5.67	0.068	0.1	0
9/5/2004	3.908	0.14	5.89	0.218	0.15	0.16
9/6/2004	4.226	0.25	10.81	0.282	0.16	0.13
9/7/2004	4.145	0.25	18.63	0.199	0.1	0.02
9/8/2004	4.056	0.26	20.38	0.175	0.1	0.02
9/9/2004	3.955	0.26	17.34	0.172	0.1	0.02
9/10/2004	3.918	0.26	16.22	0.159	0.1	0.02
9/11/2004	3.878	0.26	15.06	0.144	0.1	0.01
9/12/2004	3.816	0.26	13.24	0.131	0.1	0.01
9/13/2004	3.775	0.26	12.07	0.098	0.1	0.01
9/14/2004	3.843	0.26	14.02	0.259	0.13	0.05
9/15/2004	3.991	0.26	18.42	0.38	0.31	0.78
9/16/2004	4.067	0.09	20.71	0.24	0.14	0.04
9/17/2004	3.997	0	18.6	0.222	0.13	0.03
9/18/2004	3.926	0	16.45	0.184	0.11	0.02
9/19/2004	3.854	0	14.34	0.164	0.11	0.02

## ***Stream Monitoring Data***

### Pioneer Creek

### Sarah Creek

Date	Level	Velocity	Flow Rate	Level	Velocity	Flow Rate
	ft	ft/s	cfs	ft	ft/s	cfs
9/20/2004	3.797	0	12.69	0.139	0.1	0.01
9/21/2004	3.994	0	18.57	0.479	0.52	1.53
9/22/2004	4.236	0	26.01	0.476	0.54	1.25
9/23/2004	4.134	0.05	22.81	0.527	0.54	1.74
9/24/2004	4.075	0.1	20.97	0.603	0.53	2.38
9/25/2004	3.96	0.1	17.49	0.507	0.51	1.52
9/26/2004	3.856	0.1	14.41	0.403	0.28	0.63
9/27/2004	3.776	0.1	12.1	0.372	0.21	0.37
9/28/2004	3.704	0.1	10.07	0.348	0.14	0.16
9/29/2004	3.616	0.1	7.62	0.344	0.17	0.11
9/30/2004	3.592	0.1	5.24	0.337	0.16	0.1
10/1/2004	3.675	0.12	4.58	0.363	0.2	0.31
10/2/2004	3.741	0.16	6.26	0.364	0.13	0.29
10/3/2004	3.652	0.16	6.01	0.337	0.12	0.09
10/4/2004	3.612	0.14	5.19	0.307	0.1	0.05
10/5/2004	3.586	0.13	4.89	0.305	0.1	0.05
10/6/2004	3.551	0.15	5.51	0.294	0.1	0.04
10/7/2004	3.55	0.12	4.48	0.286	0.1	0.04
10/8/2004	3.543	0.12	4.52	0.264	0.11	0.04
10/9/2004	3.527	0.14	4.98	0.265	0.1	0.04
10/10/2004	3.479	0.13	4.53	0.261	0.1	0.04
10/11/2004	3.464	0.13	4.64	0.257	0.1	0.03
10/12/2004	3.45	0.12	4.41	0.304	0.18	0.32
10/13/2004	3.415	0.1	3.53	0.599	0.72	2.35
10/14/2004	3.439	0.1	3.55	0.625	0.8	2.58
10/15/2004	3.437	0.14	5.03	0.616	0.83	2.5
10/16/2004	3.459	0.13	4.82	0.581	0.78	2.18
10/17/2004	3.43	0.11	3.84	0.597	0.8	2.32
10/18/2004	3.434	0.14	4.82	0.536	0.74	1.78
10/19/2004	3.416	0.15	5.33	0.519	0.71	1.62
10/20/2004	3.413	0.12	4.22	0.474	0.64	1.23
10/21/2004	3.408	0.11	3.83	0.41	0.56	0.69
10/22/2004	3.412	0.11	3.88	0.354	0.48	0.26
10/23/2004	3.444	0.11	3.92	0.284	0.3	0.13
10/24/2004	3.424	0.12	4.14	0.62	0.8	2.98
10/25/2004	3.407	0.13	4.45	0.815	1.41	4.39
10/26/2004	3.405	0.15	5.18	0.811	1.46	4.35
10/27/2004	3.391	0.11	2.41	0.783	1.46	4.07
10/28/2004	3.672		9.46	1.183	1.1	8.44
10/29/2004	4.111		22.07	1.423	1.4	10.99
10/30/2004	3.96		17.49	1.326	2.13	9.85
10/31/2004	3.83		13.64	1.323	2.17	9.81
11/1/2004	3.753		11.45	1.357	2.26	10.22
11/2/2004	3.711		10.27	1.361	2.23	10.32
11/3/2004	3.668		9.04	1.38	2.23	10.48
11/4/2004	3.63		8	1.304	2.22	9.6
11/5/2004	3.602		7.23	1.32	2.22	9.79

## Stream Monitoring Data

### Pioneer and Sarah Creek Water Quality 2004

Site	Sample Date	TP µg/L	SRP µg/L	TN mg/L	TSS mg/L
Pioneer Creek	5/24/2004	258.2	147.91	2.08	77.60
Pioneer Creek	6/10/2004	273.6	192.69	1.37	12.80
Pioneer Creek	6/14/2004	224.8	177.08	1.15	13.20
Pioneer Creek	7/8/2004	182.7	101.4	1.12	
Pioneer Creek	7/12/2004	231.9	153.98	1.13	4.35
Pioneer Creek	9/9/2004	101.3		1.25	16.00
Pioneer Creek	9/16/2004	148.6	89.66	1.5	27.20
Pioneer Creek	9/23/2004	115.3	77.58	1.28	4.00
Pioneer Creek	10/5/2004	110.8	49.53	1.32	8.40
Pioneer Creek	11/1/2004	197.50	119.94	2.20	16.80
Sarah Creek	5/17/2004	295.9	121.03	1.01	52.80
Sarah Creek	5/24/2004	128.1	58.97	1.88	92.80
Sarah Creek	6/10/2004	223.9	51.2	1.39	177.20
Sarah Creek	6/14/2004	107.5	63.12	1.36	81.20
Sarah Creek	7/8/2004	149.2	67.36	1.59	
Sarah Creek	7/12/2004	152	60.84	1.98	5.29
Sarah Creek	9/23/2004	161.9	109.56	3.27	1.00
Sarah Creek	10/5/2004	131.3	71.54	4.28	28.00
Sarah Creek	11/1/2004	233.80	119.06	3.31	44.80

TRP = Total Phosphorus  
 SRP = Soluble Reactive Phosphorus  
 TN = Total Nitrogen  
 TSS = Total Suspended Solids