

## **APPENDIX B**

### **DATA TABLES**

Table 1.1 Mean Daily Stream Discharge.....	B-3
Table 1.2 Inferred DO.....	B-17
Table 1.3 Compiled Surface Water Nutrient Data.....	B-19
Table 1.4 Surface Water Salinity – Listed Segments .....	B-32
Table 1.5 Surface Water Salinity – Unlisted Segments.....	B-36
Table 1.6 Redwater TPA Ground Water Quality.....	B-56



**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
1-Jan	0.22	2.00	0.42	0.00	0.00	0.16	0.00	0.00	0.21
2-Jan	0.22	2.00	0.45	0.00	0.00	0.16	0.00	0.00	0.23
3-Jan	0.22	1.80	0.49	0.00	0.00	0.14	0.00	0.00	0.25
4-Jan	0.23	1.70	0.51	0.00	0.00	0.14	0.00	0.00	0.26
5-Jan	0.25	1.70	0.62	0.00	0.00	0.14	0.00	0.00	0.31
6-Jan	0.31	1.80	0.66	0.01	0.03	0.14	0.03	0.03	0.33
7-Jan	0.32	1.70	0.75	0.01	0.06	0.14	0.03	0.03	0.38
8-Jan	0.25	1.60	1.40	0.10	0.09	0.13	0.27	0.29	0.71
9-Jan	0.23	3.20	10.00	2.00	1.80	0.25	5.31	5.70	5.05
10-Jan	0.26	3.70	7.30	6.70	1.20	0.29	17.80	19.10	3.69
11-Jan	0.38	2.80	5.40	5.00	0.91	0.22	13.29	14.25	2.73
12-Jan	0.41	4.50	4.40	3.30	0.60	0.36	8.77	9.41	2.22
13-Jan	0.37	4.10	3.90	3.00	0.35	0.33	7.97	8.55	1.97
14-Jan	0.38	3.70	3.40	1.70	0.18	0.29	4.52	4.85	1.72
15-Jan	0.40	4.30	2.90	1.30	0.12	0.34	3.45	3.71	1.46
16-Jan	0.33	5.90	1.50	0.83	0.03	0.47	2.21	2.37	0.76
17-Jan	0.29	5.50	0.99	0.50	0.02	0.44	1.33	1.43	0.50
18-Jan	0.27	4.40	0.85	0.33	0.01	0.35	0.88	0.94	0.43
19-Jan	0.25	3.80	0.72	0.23	0.02	0.30	0.61	0.66	0.36
20-Jan	0.25	3.20	0.65	0.13	0.01	0.25	0.35	0.37	0.33
21-Jan	0.24	2.90	0.64	0.10	0.00	0.23	0.27	0.29	0.32
22-Jan	0.23	2.70	0.64	0.07	0.00	0.21	0.19	0.20	0.32
23-Jan	0.23	2.20	0.60	0.03	0.00	0.17	0.08	0.09	0.30
24-Jan	0.24	2.00	0.64	0.02	0.00	0.16	0.05	0.06	0.32
25-Jan	0.23	1.90	0.56	0.01	0.00	0.15	0.03	0.03	0.28
26-Jan	0.22	2.00	0.55	0.18	0.00	0.16	0.48	0.51	0.28
27-Jan	0.21	2.30	0.64	0.68	0.04	0.18	1.81	1.94	0.32

**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
28-Jan	0.22	2.50	11.00	0.35	1.30	0.20	0.93	1.00	5.55
29-Jan	0.31	2.30	24.00	2.40	1.00	0.18	6.38	6.84	12.12
30-Jan	1.40	2.30	16.00	2.70	0.81	0.18	7.17	7.70	8.08
31-Jan	1.50	4.20	15.00	3.40	0.29	0.33	9.03	9.69	7.57
1-Feb	3.30	12.00	16.00	2.00	0.36	0.95	5.31	5.70	8.08
2-Feb	4.00	27.00	15.00	2.40	0.29	2.14	6.38	6.84	7.57
3-Feb	2.90	23.00	13.00	2.00	0.16	1.83	5.31	5.70	6.56
4-Feb	3.20	21.00	11.00	2.30	0.03	1.67	6.11	6.56	5.55
5-Feb	19.00	19.00	11.00	1.00	0.00	1.51	2.66	2.85	5.55
6-Feb	21.00	17.00	9.90	1.30	0.00	1.35	3.45	3.71	5.00
7-Feb	11.00	13.00	8.80	1.00	0.00	1.03	2.66	2.85	4.44
8-Feb	6.80	12.00	8.50	0.85	0.20	0.95	2.26	2.42	4.29
9-Feb	7.00	11.00	9.30	1.20	0.45	0.87	3.19	3.42	4.70
10-Feb	12.00	18.00	8.80	1.80	0.19	1.43	4.78	5.13	4.44
11-Feb	8.40	25.00	8.70	2.40	0.39	1.99	6.38	6.84	4.39
12-Feb	6.60	24.00	8.30	6.60	0.61	1.91	17.54	18.82	4.19
13-Feb	6.20	24.00	7.90	10.00	1.40	1.91	26.57	28.51	3.99
14-Feb	8.60	30.00	17.00	14.00	1.20	2.38	37.20	39.91	8.58
15-Feb	13.00	40.00	20.00	15.00	0.95	3.18	39.86	42.76	10.10
16-Feb	22.00	47.00	25.00	12.00	1.20	3.73	31.88	34.21	12.62
17-Feb	18.00	63.00	29.00	10.00	2.80	5.00	26.57	28.51	14.64
18-Feb	15.00	76.00	34.00	9.90	4.50	6.04	26.30	28.22	17.17
19-Feb	22.00	210.00	63.00	8.00	6.70	16.68	21.26	22.81	31.81
20-Feb	30.00	251.00	76.00	9.50	10.00	19.93	25.24	27.08	38.38
21-Feb	27.00	297.00	111.00	11.00	8.90	23.59	29.23	31.36	56.05
22-Feb	26.00	344.00	102.00	9.50	6.00	27.32	25.24	27.08	51.51
23-Feb	24.00	192.00	142.00	9.40	3.20	15.25	24.98	26.80	71.71
24-Feb	19.00	77.00	31.00	7.70	3.00	6.12	20.46	21.95	15.65

**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
25-Feb	15.00	55.00	20.00	7.80	1.80	4.37	20.73	22.24	10.10
26-Feb	14.00	59.00	13.00	6.80	0.86	4.69	18.07	19.39	6.56
27-Feb	21.00	56.00	11.00	6.10	1.20	4.45	16.21	17.39	5.55
28-Feb	30.00	52.00	8.90	6.20	1.70	4.13	16.47	17.68	4.49
29-Feb	6.90	33.00	6.40	1.40	0.87	2.62	3.72	3.99	3.23
1-Mar	44.00	49.00	5.80	3.50	0.50	3.89	9.30	9.98	2.93
2-Mar	45.00	33.00	4.80	2.80	0.29	2.62	7.44	7.98	2.42
3-Mar	87.00	27.00	4.10	2.40	0.25	2.14	6.38	6.84	2.07
4-Mar	86.00	25.00	3.90	1.80	0.32	1.99	4.78	5.13	1.97
5-Mar	61.00	22.00	3.40	1.60	0.76	1.75	4.25	4.56	1.72
6-Mar	40.00	20.00	3.30	1.40	3.60	1.59	3.72	3.99	1.67
7-Mar	29.00	19.00	3.50	1.20	2.10	1.51	3.19	3.42	1.77
8-Mar	31.00	21.00	3.80	1.10	2.20	1.67	2.92	3.14	1.92
9-Mar	38.00	22.00	5.00	1.80	3.40	1.75	4.78	5.13	2.52
10-Mar	50.00	30.00	5.90	3.90	5.50	2.38	10.36	11.12	2.98
11-Mar	56.00	53.00	8.10	8.80	3.20	4.21	23.38	25.09	4.09
12-Mar	114.00	84.00	18.00	20.00	5.60	6.67	53.14	57.02	9.09
13-Mar	117.00	89.00	23.00	13.00	8.40	7.07	34.54	37.06	11.61
14-Mar	99.00	110.00	49.00	9.50	13.00	8.74	25.24	27.08	24.74
15-Mar	53.00	115.00	63.00	6.40	7.20	9.13	17.01	18.25	31.81
16-Mar	28.00	106.00	88.00	4.30	4.10	8.42	11.43	12.26	44.44
17-Mar	20.00	105.00	139.00	3.30	4.20	8.34	8.77	9.41	70.19
18-Mar	33.00	134.00	207.00	2.80	5.00	10.64	7.44	7.98	104.53
19-Mar	107.00	192.00	223.00	1.80	6.10	15.25	4.78	5.13	112.61
20-Mar	143.00	205.00	222.00	2.40	7.10	16.28	6.38	6.84	112.11
21-Mar	134.00	264.00	247.00	1.30	7.70	20.97	3.45	3.71	124.73
22-Mar	162.00	365.00	235.00	1.10	7.10	28.99	2.92	3.14	118.67
23-Mar	141.00	279.00	165.00	1.00	7.20	22.16	2.66	2.85	83.32

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24-Mar	94.00	218.00	109.00	1.00	6.40	17.31	2.66	2.85	55.04
25-Mar	57.00	235.00	83.00	0.86	11.00	18.66	2.29	2.45	41.91
26-Mar	34.00	180.00	76.00	0.75	11.00	14.30	1.99	2.14	38.38
27-Mar	45.00	152.00	64.00	8.40	7.10	12.07	22.32	23.95	32.32
28-Mar	54.00	145.00	44.00	6.00	3.50	11.52	15.94	17.11	22.22
29-Mar	39.00	119.00	29.00	3.90	2.60	9.45	10.36	11.12	14.64
30-Mar	85.00	101.00	20.00	2.80	2.90	8.02	7.44	7.98	10.10
31-Mar	90.00	104.00	18.00	2.40	2.40	8.26	6.38	6.84	9.09
1-Apr	81.00	107.00	37.00	2.10	1.50	8.50	5.58	5.99	18.68
2-Apr	60.00	110.00	25.00	1.90	1.40	8.74	5.05	5.42	12.62
3-Apr	47.00	96.00	18.00	1.80	1.20	7.62	4.78	5.13	9.09
4-Apr	30.00	85.00	12.00	1.60	1.10	6.75	4.25	4.56	6.06
5-Apr	30.00	78.00	9.70	1.40	0.88	6.19	3.72	3.99	4.90
6-Apr	24.00	72.00	8.60	1.30	1.00	5.72	3.45	3.71	4.34
7-Apr	19.00	81.00	28.00	1.20	1.50	6.43	3.19	3.42	14.14
8-Apr	15.00	130.00	54.00	1.00	2.40	10.32	2.66	2.85	27.27
9-Apr	17.00	339.00	104.00	0.89	3.20	26.92	2.36	2.54	52.52
10-Apr	19.00	612.00	89.00	0.77	20.00	48.60	2.05	2.20	44.94
11-Apr	13.00	327.00	38.00	0.71	7.70	25.97	1.89	2.02	19.19
12-Apr	11.00	186.00	22.00	0.63	2.50	14.77	1.67	1.80	11.11
13-Apr	8.40	114.00	11.00	0.57	1.90	9.05	1.51	1.63	5.55
14-Apr	9.10	92.00	23.00	0.52	2.70	7.31	1.38	1.48	11.61
15-Apr	7.60	89.00	33.00	0.50	2.60	7.07	1.33	1.43	16.66
16-Apr	7.90	125.00	28.00	0.49	4.20	9.93	1.30	1.40	14.14
17-Apr	9.70	252.00	48.00	0.44	7.80	20.01	1.17	1.25	24.24
18-Apr	11.00	211.00	35.00	0.42	4.40	16.76	1.12	1.20	17.67
19-Apr	8.80	147.00	17.00	0.43	2.10	11.67	1.14	1.23	8.58
20-Apr	6.70	104.00	11.00	0.43	1.30	8.26	1.14	1.23	5.55

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21-Apr	5.40	79.00	6.10	0.38	1.10	6.27	1.01	1.08	3.08
22-Apr	6.90	66.00	4.10	0.32	0.82	5.24	0.85	0.91	2.07
23-Apr	19.00	57.00	8.20	0.28	0.68	4.53	0.74	0.80	4.14
24-Apr	8.10	54.00	16.00	0.32	0.69	4.29	0.85	0.91	8.08
25-Apr	5.20	51.00	24.00	0.40	0.78	4.05	1.06	1.14	12.12
26-Apr	4.90	49.00	7.40	0.90	0.60	3.89	2.39	2.57	3.74
27-Apr	4.80	45.00	4.50	2.30	0.49	3.57	6.11	6.56	2.27
28-Apr	4.70	42.00	3.00	4.90	0.43	3.34	13.02	13.97	1.51
29-Apr	4.70	38.00	4.40	5.50	0.45	3.02	14.61	15.68	2.22
30-Apr	5.40	36.00	3.40	4.40	0.67	2.86	11.69	12.54	1.72
1-May	4.60	34.00	3.00	2.40	0.41	2.70	6.38	6.84	1.51
2-May	4.20	32.00	2.70	1.50	0.71	2.54	3.99	4.28	1.36
3-May	4.10	31.00	2.60	1.10	0.37	2.46	2.92	3.14	1.31
4-May	4.00	27.00	2.50	0.78	0.27	2.14	2.07	2.22	1.26
5-May	3.80	25.00	2.40	0.57	0.26	1.99	1.51	1.63	1.21
6-May	4.00	24.00	4.50	0.59	1.60	1.91	1.57	1.68	2.27
7-May	6.10	30.00	13.00	0.37	1.50	2.38	0.98	1.05	6.56
8-May	5.80	34.00	11.00	0.34	1.60	2.70	0.90	0.97	5.55
9-May	4.80	33.00	7.30	0.31	0.90	2.62	0.82	0.88	3.69
10-May	4.30	31.00	4.20	0.23	0.71	2.46	0.61	0.66	2.12
11-May	4.00	29.00	3.60	0.21	0.66	2.30	0.56	0.60	1.82
12-May	3.80	29.00	3.60	0.31	0.72	2.30	0.82	0.88	1.82
13-May	3.60	28.00	3.50	0.51	0.61	2.22	1.36	1.45	1.77
14-May	3.40	28.00	13.00	0.69	0.72	2.22	1.83	1.97	6.56
15-May	3.20	28.00	6.70	0.84	0.60	2.22	2.23	2.39	3.38
16-May	3.00	30.00	5.90	1.00	0.37	2.38	2.66	2.85	2.98
17-May	2.70	30.00	5.90	0.56	1.20	2.38	1.49	1.60	2.98
18-May	2.60	29.00	13.00	0.33	6.60	2.30	0.88	0.94	6.56

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19-May	2.50	31.00	30.00	0.30	9.40	2.46	0.80	0.86	15.15
20-May	5.70	31.00	20.00	0.37	0.86	2.46	0.98	1.05	10.10
21-May	4.30	28.00	18.00	0.41	0.64	2.22	1.09	1.17	9.09
22-May	2.90	26.00	6.10	0.46	0.37	2.06	1.22	1.31	3.08
23-May	2.70	27.00	3.50	0.60	1.10	2.14	1.59	1.71	1.77
24-May	4.10	29.00	2.80	0.54	0.78	2.30	1.43	1.54	1.41
25-May	2.80	29.00	2.60	0.40	2.90	2.30	1.06	1.14	1.31
26-May	2.40	27.00	2.70	0.34	1.40	2.14	0.90	0.97	1.36
27-May	2.20	23.00	2.30	0.30	0.39	1.83	0.80	0.86	1.16
28-May	2.20	21.00	14.00	0.82	1.00	1.67	2.18	2.34	7.07
29-May	2.30	21.00	20.00	0.70	1.20	1.67	1.86	2.00	10.10
30-May	2.50	26.00	24.00	0.75	0.93	2.06	1.99	2.14	12.12
31-May	3.60	41.00	69.00	0.82	4.40	3.26	2.18	2.34	34.84
1-Jun	3.80	42.00	22.00	0.68	1.70	3.34	1.81	1.94	11.11
2-Jun	5.50	46.00	9.90	0.54	0.64	3.65	1.43	1.54	5.00
3-Jun	3.30	42.00	5.80	0.41	0.41	3.34	1.09	1.17	2.93
4-Jun	2.90	35.00	3.90	0.33	0.30	2.78	0.88	0.94	1.97
5-Jun	5.70	29.00	7.40	0.24	0.38	2.30	0.64	0.68	3.74
6-Jun	30.00	25.00	4.70	0.19	0.68	1.99	0.50	0.54	2.37
7-Jun	26.00	22.00	6.90	0.21	0.73	1.75	0.56	0.60	3.48
8-Jun	10.00	20.00	15.00	0.55	0.74	1.59	1.46	1.57	7.57
9-Jun	15.00	20.00	11.00	0.73	0.89	1.59	1.94	2.08	5.55
10-Jun	5.00	18.00	5.10	1.40	0.39	1.43	3.72	3.99	2.58
11-Jun	6.20	19.00	6.20	1.20	0.34	1.51	3.19	3.42	3.13
12-Jun	8.50	242.00	90.00	1.00	0.45	19.22	2.66	2.85	45.45
13-Jun	11.00	138.00	103.00	0.87	1.90	10.96	2.31	2.48	52.01
14-Jun	11.00	97.00	74.00	0.77	6.30	7.70	2.05	2.20	37.37
15-Jun	8.50	56.00	139.00	1.90	10.00	4.45	5.05	5.42	70.19



Table 1.1 Mean Daily Stream Discharge

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
16-Jun	13.00	48.00	27.00	3.10	1.20	3.81	8.24	8.84	13.63
17-Jun	60.00	40.00	18.00	6.10	2.40	3.18	0.27	17.39	9.09
18-Jun	17.00	39.00	10.00	3.70	1.80	3.10	16.21	10.55	5.05
19-Jun	12.00	35.00	7.00	1.90	0.70	2.78	1.20	5.42	0.98
20-Jun	33.00	30.00	40.00	1.50	1.60	2.38	0.69	4.28	0.59
21-Jun	9.30	57.00	79.00	3.90	8.80	4.53	9.83	11.12	0.25
22-Jun	24.00	153.00	33.00	6.60	2.90	12.15	5.05	18.82	0.16
23-Jun	16.00	79.00	20.00	6.90	0.53	6.27	3.99	19.67	0.03
24-Jun	19.00	57.00	11.00	3.50	0.32	4.53	10.36	9.98	3.53
25-Jun	5.60	39.00	6.30	2.00	3.60	3.10	17.54	5.70	20.20
26-Jun	8.30	34.00	31.00	0.92	2.80	2.70	18.33	2.62	39.89
27-Jun	4.90	33.00	15.00	0.56	0.40	2.62	9.30	1.60	16.66
28-Jun	4.00	30.00	4.60	0.80	0.26	2.38	5.31	2.28	10.10
29-Jun	38.00	35.00	4.30	0.42	0.12	2.78	2.44	1.20	5.55
30-Jun	14.00	32.00	3.00	0.24	0.06	2.54	1.49	0.68	3.18
1-Jul	7.80	31.00	37.00	0.27	0.05	2.46	2.13	0.77	15.65
2-Jul	5.20	48.00	11.00	0.25	5.20	3.81	1.12	0.71	7.57
3-Jul	4.40	219.00	24.00	0.18	1.20	17.39	0.64	0.51	2.32
4-Jul	23.00	101.00	33.00	0.13	27.00	8.02	0.72	0.37	2.17
5-Jul	36.00	107.00	54.00	0.10	1.90	8.50	0.66	0.29	1.51
6-Jul	19.00	169.00	16.00	0.08	1.10	13.42	0.48	0.23	18.68
7-Jul	14.00	123.00	10.00	0.06	0.30	9.77	0.35	0.17	5.55
8-Jul	6.40	74.00	4.50	0.04	0.14	5.88	0.27	0.13	12.12
9-Jul	4.00	52.00	3.30	0.02	5.60	4.13	0.21	0.06	16.66
10-Jul	4.50	40.00	53.00	0.48	1.70	3.18	0.16	1.37	27.27
11-Jul	9.50	49.00	21.00	0.80	1.30	3.89	0.11	2.28	8.08
12-Jul	4.90	65.00	5.70	0.20	0.17	5.16	0.05	0.57	5.05
13-Jul	5.50	41.00	2.80	0.04	2.10	3.26	1.28	0.11	2.27

**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
14-Jul	18.00	33.00	14.00	0.01	0.86	2.62	2.13	0.03	1.67
15-Jul	37.00	26.00	4.30	0.00	0.15	2.06	0.53	0.00	26.76
16-Jul	11.00	23.00	7.30	0.00	0.05	1.83	0.11	0.00	10.60
17-Jul	21.00	21.00	6.60	0.00	0.69	1.67	0.03	0.00	2.88
18-Jul	16.00	18.00	3.00	0.56	3.20	1.43	0.00	1.60	1.41
19-Jul	16.00	17.00	3.30	0.00	0.28	1.35	0.00	0.00	7.07
20-Jul	16.00	15.00	2.40	0.00	0.14	1.19	0.00	0.00	2.17
21-Jul	8.00	13.00	1.80	0.01	0.51	1.03	1.49	0.03	3.69
22-Jul	9.50	11.00	1.80	0.00	1.60	0.87	0.00	0.00	3.33
23-Jul	9.00	9.30	1.60	0.00	0.28	0.74	0.00	0.00	1.51
24-Jul	5.40	8.50	1.80	0.00	0.22	0.68	0.03	0.00	1.67
25-Jul	3.80	7.90	3.10	0.00	5.20	0.63	0.00	0.00	1.21
26-Jul	3.20	7.50	2.20	0.00	0.62	0.60	0.00	0.00	0.91
27-Jul	4.20	7.50	1.70	0.00	0.44	0.60	0.00	0.00	0.91
28-Jul	4.70	6.90	1.40	0.00	0.17	0.55	0.00	0.00	0.81
29-Jul	4.20	6.10	2.80	0.00	0.40	0.48	0.00	0.00	0.91
30-Jul	3.10	5.90	21.00	0.00	0.83	0.47	0.00	0.00	1.57
31-Jul	2.40	5.60	6.60	0.00	0.33	0.44	0.00	0.00	1.11
1-Aug	4.80	5.50	2.80	0.00	0.94	0.44	0.00	0.00	0.86
2-Aug	3.00	12.00	31.00	0.00	2.10	0.95	0.00	0.00	0.71
3-Aug	1.90	16.00	5.60	0.00	2.40	1.27	0.00	0.00	1.41
4-Aug	1.40	19.00	3.10	0.00	0.37	1.51	0.00	0.00	10.60
5-Aug	4.90	21.00	3.70	0.00	0.49	1.67	0.00	0.00	3.33
6-Aug	2.60	41.00	3.30	0.00	0.09	3.26	0.00	0.00	1.41
7-Aug	3.10	21.00	7.10	0.00	6.60	1.67	0.00	0.00	15.65
8-Aug	2.20	15.00	2.90	0.00	1.30	1.19	0.00	0.00	2.83
9-Aug	1.10	12.00	4.40	0.00	1.30	0.95	0.00	0.00	1.57
10-Aug	2.50	9.80	5.30	0.00	0.30	0.78	0.00	0.00	1.87

**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
11-Aug	10.00	8.70	2.30	0.00	0.31	0.69	0.00	0.00	1.67
12-Aug	1.50	6.70	1.60	0.00	0.23	0.53	0.00	0.00	3.59
13-Aug	0.99	5.90	1.40	0.00	0.10	0.47	0.00	0.00	1.46
14-Aug	0.89	4.50	1.20	0.00	2.00	0.36	0.00	0.00	2.22
15-Aug	0.91	4.00	1.20	0.00	19.00	0.32	0.00	0.00	2.68
16-Aug	3.90	3.90	1.30	0.00	9.30	0.31	0.00	0.00	1.16
17-Aug	1.20	3.60	1.70	0.00	0.69	0.29	0.00	0.00	0.81
18-Aug	0.72	3.10	1.30	0.00	0.21	0.25	0.00	0.00	0.71
19-Aug	0.51	3.60	1.10	0.00	0.36	0.29	0.00	0.00	0.61
20-Aug	0.36	4.40	0.99	0.00	0.10	0.35	0.00	0.00	0.61
21-Aug	0.30	3.90	0.97	0.00	0.04	0.31	0.00	0.00	0.66
22-Aug	1.80	3.60	0.97	0.00	0.03	0.29	0.00	0.00	0.86
23-Aug	2.20	3.00	0.99	0.00	0.03	0.24	0.00	0.00	0.66
24-Aug	2.30	2.90	1.10	0.00	0.44	0.23	0.00	0.00	0.56
25-Aug	0.50	2.80	0.99	0.00	0.12	0.22	0.00	0.00	0.50
26-Aug	0.30	2.50	0.97	0.00	0.04	0.20	0.00	0.00	0.49
27-Aug	0.28	2.30	1.00	0.00	0.02	0.18	0.00	0.00	0.49
28-Aug	0.24	2.20	1.00	0.00	0.01	0.17	0.00	0.00	0.50
29-Aug	0.27	2.20	0.97	0.00	0.01	0.17	0.00	0.00	0.56
30-Aug	0.48	2.40	4.80	0.00	0.02	0.19	0.00	0.00	0.50
31-Aug	3.00	2.40	5.20	0.00	0.01	0.19	0.00	0.00	0.49
1-Sep	1.40	2.40	1.60	0.00	0.00	0.19	0.00	0.00	0.50
2-Sep	0.76	2.30	1.20	0.00	0.00	0.18	0.00	0.00	0.50
3-Sep	0.94	2.50	1.00	0.00	0.00	0.20	0.00	0.00	0.29
4-Sep	0.55	2.30	0.98	0.00	0.00	0.18	0.00	0.00	0.21
5-Sep	1.10	2.10	0.98	0.00	0.00	0.17	0.00	0.00	0.11
6-Sep	0.56	1.90	0.98	0.00	0.00	0.15	0.00	0.00	0.00
7-Sep	0.61	1.90	0.97	0.00	0.00	0.15	0.00	0.00	0.49

**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
8-Sep	0.38	2.00	1.50	0.00	0.22	0.16	0.00	0.00	2.42
9-Sep	0.32	2.10	4.30	0.00	0.51	0.17	0.00	0.00	2.63
10-Sep	0.34	1.90	1.70	0.00	0.10	0.15	0.00	0.00	0.81
11-Sep	0.26	1.90	1.30	0.00	0.06	0.15	0.00	0.00	0.61
12-Sep	0.24	4.00	36.00	0.00	1.10	0.32	0.00	0.00	0.50
13-Sep	0.27	4.10	31.00	0.00	0.51	0.33	0.00	0.00	0.49
14-Sep	0.29	4.00	13.00	0.00	0.24	0.32	0.00	0.00	0.49
15-Sep	0.29	3.40	3.10	0.00	0.04	0.27	0.00	0.00	0.49
16-Sep	0.29	2.80	1.60	0.00	0.01	0.22	0.00	0.00	0.49
17-Sep	0.27	2.80	1.30	0.00	0.02	0.22	0.00	0.00	0.76
18-Sep	0.33	2.90	9.40	0.00	0.01	0.23	0.00	0.00	2.17
19-Sep	0.73	9.50	60.00	0.00	23.00	0.75	0.00	0.00	0.86
20-Sep	0.95	15.00	32.00	0.00	0.46	1.19	0.00	0.00	0.66
21-Sep	0.71	15.00	8.60	0.00	0.20	1.19	0.00	0.00	18.18
22-Sep	0.57	10.00	3.00	0.00	0.16	0.79	0.00	0.00	15.65
23-Sep	0.55	8.90	6.50	0.00	0.14	0.71	0.00	0.00	6.56
24-Sep	0.43	7.90	9.30	0.00	0.23	0.63	0.00	0.00	1.57
25-Sep	40.00	7.00	3.50	0.00	0.07	0.56	0.00	0.00	0.81
26-Sep	9.20	6.00	2.00	0.00	0.09	0.48	0.00	0.00	0.66
27-Sep	3.40	5.30	2.50	0.00	0.06	0.42	0.00	0.00	4.75
28-Sep	1.90	5.10	7.50	0.00	0.04	0.41	0.00	0.00	30.30
29-Sep	1.30	4.40	3.30	0.00	0.03	0.35	0.00	0.00	16.16
30-Sep	1.10	4.20	5.10	0.00	0.02	0.33	0.00	0.00	4.34
1-Oct	0.83	4.60	9.40	0.00	0.02	0.37	0.00	0.00	1.51
2-Oct	0.75	4.20	6.10	0.00	0.02	0.33	0.00	0.00	3.28
3-Oct	0.72	4.10	3.10	0.00	0.01	0.33	0.00	0.00	4.70
4-Oct	0.69	4.10	2.30	0.00	0.01	0.33	0.00	0.00	1.77
5-Oct	0.66	3.90	2.80	0.00	0.01	0.31	0.00	0.00	1.01

**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
6-Oct	0.63	3.90	3.60	0.00	0.01	0.31	0.00	0.00	1.26
7-Oct	0.61	3.90	2.20	0.00	0.01	0.31	0.00	0.00	3.79
8-Oct	0.64	3.90	1.80	0.00	0.01	0.31	0.00	0.00	1.67
9-Oct	0.62	4.20	17.00	0.00	0.03	0.33	0.00	0.00	2.58
10-Oct	0.58	4.50	14.00	0.00	0.13	0.36	0.00	0.00	4.75
11-Oct	0.57	4.20	3.60	0.00	0.06	0.33	0.00	0.00	3.08
12-Oct	0.56	4.00	9.90	0.00	2.20	0.32	0.00	0.00	1.57
13-Oct	0.53	4.00	14.00	0.00	0.41	0.32	0.00	0.00	1.16
14-Oct	0.51	4.40	18.00	0.00	0.30	0.35	0.00	0.00	1.41
15-Oct	0.50	4.50	10.00	0.00	0.27	0.36	0.00	0.00	1.82
16-Oct	0.49	4.60	4.50	0.00	0.11	0.37	0.00	0.00	1.11
17-Oct	0.45	4.80	4.90	0.00	0.07	0.38	0.00	0.00	0.91
18-Oct	0.44	4.80	4.40	0.00	0.06	0.38	0.00	0.00	8.58
19-Oct	0.42	4.80	2.80	0.00	0.04	0.38	0.00	0.00	7.07
20-Oct	0.40	4.80	2.10	0.00	0.03	0.38	0.00	0.00	1.82
21-Oct	0.38	4.80	2.10	0.00	0.02	0.38	0.00	0.00	5.00
22-Oct	0.39	5.00	6.40	0.00	0.02	0.40	0.00	0.00	7.07
23-Oct	0.42	5.40	8.90	0.00	0.03	0.43	0.00	0.00	9.09
24-Oct	0.39	5.10	5.00	0.01	0.10	0.41	0.00	0.03	5.05
25-Oct	0.38	4.40	2.60	0.01	0.07	0.35	0.00	0.03	2.27
26-Oct	0.36	4.30	2.30	0.01	0.06	0.34	0.00	0.03	2.47
27-Oct	0.35	4.60	2.00	0.01	0.04	0.37	0.03	0.03	2.22
28-Oct	0.36	5.30	2.00	0.01	0.03	0.42	0.03	0.03	1.41
29-Oct	0.34	4.90	1.90	0.01	0.03	0.39	0.03	0.03	1.06
30-Oct	0.34	4.70	1.90	0.01	0.02	0.37	0.03	0.03	1.06
31-Oct	0.34	4.70	1.90	0.01	0.02	0.37	0.03	0.03	3.23
1-Nov	0.35	4.70	1.90	0.01	0.01	0.37	0.03	0.03	4.49
2-Nov	0.37	4.70	1.90	0.01	0.02	0.37	0.03	0.03	2.52

**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
3-Nov	0.37	4.70	1.90	0.01	0.01	0.37	0.03	0.03	1.31
4-Nov	0.37	4.80	1.90	0.01	0.02	0.38	0.03	0.03	1.16
5-Nov	0.35	4.60	2.00	0.01	0.02	0.37	0.03	0.03	1.01
6-Nov	0.36	4.70	2.00	0.01	0.02	0.37	0.03	0.03	1.01
7-Nov	0.37	4.90	2.00	0.01	0.01	0.39	0.03	0.03	0.96
8-Nov	0.34	4.90	2.00	0.01	0.01	0.39	0.03	0.03	0.96
9-Nov	0.32	4.90	1.90	0.01	0.01	0.39	0.03	0.03	0.96
10-Nov	0.31	4.80	1.90	0.01	0.01	0.38	0.03	0.03	0.96
11-Nov	0.32	4.70	1.80	0.01	0.01	0.37	0.03	0.03	0.96
12-Nov	0.33	4.80	1.70	0.01	0.01	0.38	0.03	0.03	0.96
13-Nov	0.36	5.00	1.80	0.01	0.01	0.40	0.03	0.03	0.96
14-Nov	0.36	5.50	1.90	0.01	0.01	0.44	0.03	0.03	1.01
15-Nov	0.36	5.60	2.00	0.00	0.01	0.44	0.03	0.00	1.01
16-Nov	0.35	5.60	2.10	0.00	0.01	0.44	0.03	0.00	1.01
17-Nov	0.35	5.60	2.10	0.00	0.01	0.44	0.03	0.00	1.01
18-Nov	0.34	5.50	2.20	0.00	0.01	0.44	0.00	0.00	0.96
19-Nov	0.35	5.00	2.10	0.00	0.01	0.40	0.00	0.00	0.96
20-Nov	0.34	4.70	2.00	0.00	0.01	0.37	0.00	0.00	0.91
21-Nov	0.36	4.40	1.90	0.00	0.02	0.35	0.00	0.00	0.86
22-Nov	0.37	4.30	1.70	0.00	0.02	0.34	0.00	0.00	0.91
23-Nov	0.37	4.80	1.80	0.00	0.02	0.38	0.00	0.00	0.96
24-Nov	0.38	4.80	1.70	0.00	0.02	0.38	0.00	0.00	1.01
25-Nov	0.41	5.00	1.50	0.00	0.02	0.40	0.00	0.00	1.06
26-Nov	0.41	5.00	1.40	0.00	0.01	0.40	0.00	0.00	1.06
27-Nov	0.40	4.90	1.30	0.00	0.01	0.39	0.00	0.00	1.11
28-Nov	0.39	4.80	1.30	0.02	0.01	0.38	0.00	0.06	1.06
29-Nov	0.38	4.60	1.20	0.02	0.01	0.37	0.00	0.06	1.01
30-Nov	0.37	4.10	1.20	0.02	0.01	0.33	0.00	0.06	0.96

**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
1-Dec	0.39	4.00	1.10	0.01	0.01	0.32	0.05	0.03	0.86
2-Dec	0.36	3.80	1.10	0.01	0.01	0.30	0.05	0.03	0.91
3-Dec	0.36	3.80	1.30	0.01	0.01	0.30	0.05	0.03	0.86
4-Dec	0.36	3.80	1.40	0.01	0.01	0.30	0.03	0.03	0.76
5-Dec	0.35	4.00	1.50	0.01	0.07	0.32	0.03	0.03	0.71
6-Dec	0.34	4.20	1.60	0.00	0.06	0.33	0.03	0.00	0.66
7-Dec	0.33	4.00	1.30	0.00	0.05	0.32	0.03	0.00	0.66
8-Dec	0.33	3.90	1.20	0.00	0.05	0.31	0.03	0.00	0.61
9-Dec	0.34	4.10	1.10	0.00	0.03	0.33	0.00	0.00	0.61
10-Dec	0.34	4.00	1.10	0.00	0.02	0.32	0.00	0.00	0.56
11-Dec	0.34	3.70	1.00	0.00	0.02	0.29	0.00	0.00	0.56
12-Dec	1.20	3.40	0.92	0.00	0.01	0.27	0.00	0.00	0.66
13-Dec	1.60	3.20	0.94	0.00	0.01	0.25	0.00	0.00	0.71
14-Dec	1.20	3.00	0.90	0.00	0.01	0.24	0.00	0.00	0.76
15-Dec	0.68	2.90	0.89	0.00	0.01	0.23	0.00	0.00	0.81
16-Dec	0.51	2.80	0.78	0.00	0.01	0.22	0.00	0.00	0.66
17-Dec	0.35	2.70	0.79	0.00	0.01	0.21	0.00	0.00	0.61
18-Dec	0.32	2.80	0.71	0.00	0.01	0.22	0.00	0.00	0.56
19-Dec	0.31	2.80	0.66	0.00	0.02	0.22	0.00	0.00	0.56
20-Dec	0.30	2.80	0.70	0.00	0.03	0.22	0.00	0.00	0.50
21-Dec	0.28	2.80	0.73	0.00	0.02	0.22	0.00	0.00	0.46
22-Dec	0.28	2.80	0.66	0.00	0.01	0.22	0.00	0.00	0.47
23-Dec	0.27	2.70	0.59	0.00	0.01	0.21	0.00	0.00	0.45
24-Dec	0.27	2.60	0.52	0.00	0.01	0.21	0.00	0.00	0.45
25-Dec	0.27	2.30	0.60	0.00	0.01	0.18	0.00	0.00	0.39
26-Dec	0.27	2.30	0.66	0.00	0.01	0.18	0.00	0.00	0.40
27-Dec	0.26	2.30	0.73	0.00	0.01	0.18	0.00	0.00	0.36
28-Dec	0.24	2.30	0.74	0.00	0.00	0.18	0.00	0.00	0.33

**Table 1.1 Mean Daily Stream Discharge**

<b>DATE</b>	<b>REDWATER RIVER @ CIRCLE STN_06177500 (cfs)</b>	<b>REDWATER RIVER @ VIDA STN_06177825 (cfs)</b>	<b>PRAIRIE ELK CREEK STN 06175540 (cfs)</b>	<b>TIMBER CREEK STN 06131120 (cfs)</b>	<b>NELSON CREEK STN 06131200 (cfs)</b>	<b>ESTIMATED EAST REDWATER CREEK (FROM REDWATER @ VIDA) (cfs)</b>	<b>ESTIMATED HORSE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED PASTURE CREEK (FROM TIMBER CREEK) (cfs)</b>	<b>ESTIMATED SAND CREEK (FROM PRAIRIE ELK CREEK) (cfs)</b>
<b>29-Dec</b>	0.25	2.10	0.63	0.00	0.00	0.17	0.00	0.00	0.35
<b>30-Dec</b>	0.24	2.10	0.55	0.00	0.00	0.17	0.00	0.00	0.37
<b>31-Dec</b>	0.23	2.00	0.46	0.00	0.00	0.16	0.00	0.00	0.33



**Table 1.2 Inferred DO**

Sample Number	Segment Name	Site ID	Station Description	Sample Date	Diatom-inferred DO (mg/L)
HM08D012	Timber Creek	6131120	Timber Creek at the highway 24 crossing	6/17/2008	4.7
HM08D006	Nelson Creek	6131200	Nelson Creek above hwy 24 Crossing	6/17/2008	5.3
HM08D004	Prairie Elk Creek	6175540	Prairie Elk Creek at Hwy 528 Crossing	6/18/2008	5.1
HM08D013	East Redwater Creek	5385EA-01	East Redwater River, near mouth	6/17/2008	5.8
336301	Horse Creek	M48HRSEC02	Horse Creek 5 miles above Circle	6/4/2003	6.2
HM08D019	Horse Creek	M48HRSEC02	Horse Creek 5 miles above Circle	6/18/2008	5.7
302401	Pasture Creek	M48PSTRC01	Pasture Creek near mouth	6/20/2003	6.2
HM08D014	Pasture Creek	M48PSTRC01	Pasture Creek near mouth	6/17/2008	6.1
302501	Pasture Creek	M48PSTRC02	Pasture Creek below Highway 200	6/20/2003	5.6
HM08D001	Pasture Creek	M48PSTRC03	Pasture Creek below Highway 200	6/17/2008	4.4
302101	East Redwater Creek	M48RDWEC01	East Redwater River near mouth	6/19/2003	6.4
302001	East Redwater Creek	M48RDWEC02	East Redwater River at County Road 308	6/19/2003	4.2
302201	East Redwater Creek	M48RDWEC03	East Redwater River below North Fork	6/19/2003	6.2
HM08D018	East Redwater Creek	M48RDWEC03	Redwater River, East, below North Fork	6/17/2008	4.4
302301	East Redwater Creek	M48RDWEC04	East Redwater River on state land	6/19/2003	3.7
HM08D020	East Redwater Creek	M48RDWEC05	Redwater River, East, South Fork	6/17/2008	4.5
HM08D002	Prairie Elk Creek	M49PREKC-06	Prairie Elk Creek, Arnston Ranch (SW¼ Sec. 7 T22N R46E)	6/18/2008	5.2
HM08D021	Sand Creek	M49SANDC-03	Sand Creek, West Fork, U/S of Sand Creek Road Crossing	6/18/2008	5.1
338701	Horse Creek	MCNHORC-02	Horse Creek 0.7 mile D/S of Denwoody	7/11/2003	5.5
338101	Horse Creek	MCNHORC-04	Horse Creek above Circle	7/11/2003	3.8
HM08D017	Horse Creek	MCNHORC-04	Horse Creek 0.6 mile U/S of the second Horse Creek Road crossing	6/18/2008	5.3
301901	Horse Creek	MCNHORC-05	Horse Creek near mouth above Highway 13	6/4/2003	4.1
301902	Horse Creek	MCNHORC-05	Horse Creek near mouth	7/11/2003	4.3

**Table 1.2 Inferred DO**

Sample Number	Segment Name	Site ID	Station Description	Sample Date	Diatom-inferred DO (mg/L)
HM08D010	Horse Creek	MCNHORC-05	Horse Creek U/S of the Highway 13 crossing	6/17/2008	5.1
338201	Nelson Creek	MCNNLSN-01	Nelson Creek one mile U/S of Crookers Coulee	7/9/2003	3.9
HM08D007	Nelson Creek	MCNNLSN-01	Nelson Creek one mile U/S of Crookers Coulee	6/17/2008	5.4
338301	Prairie Elk Creek	MCNPREK-4A	Prairie Elk Creek two miles D/S of the Pass Road crossing	9/16/2003	7.4
HM08D011	Prairie Elk Creek	MCNPREK-4A	Prairie Elk Creek two miles D/S of the Pass Road crossing	6/18/2008	6.6
200802	Redwater River	MCNREDW-01	Redwater River at Fairgrounds	8/27/2003	5.7
HM08D016	Redwater River	MCNREDW-01	Redwater River at Fairgrounds	6/16/2008	5.8
200801	Redwater River	MCNREDW-01	Redwater River at Fairgrounds	08/17/2000.	7.1
200901	Redwater River	MCNREDW-02	Redwater River at Cemetery Road	8/17/2000	6.7
200902	Redwater River	MCNREDW-02	Redwater River at Cemetery Road	8/27/2003	5.9
HM08D008	Redwater River	MCNREDW-02	Redwater River 0.5 mile D/S of Cemetery Road crossing	6/16/2008	5.8
201002	Redwater River	MCNREDW-03	Redwater River below airport	8/27/2003	7.5
HM08D009	Redwater River	MCNREDW-03	Redwater River 200 feet U/S of the Highway 200 crossing	6/16/2008	5.2
201001	Redwater River	MCNREDW-03	Redwater River below airport	08/17/2000.	5.4
201102	Redwater River	MCNREDW-04	Redwater River at Highway 13	8/27/2003	6
HM08D003	Redwater River	MCNREDW-04	Redwater River at Highway 13 (RW-4)	6/17/2008	5.1
201101	Redwater River	MCNREDW-04	Redwater River at Highway 13	08/17/2000.	5.6
338401	Sand Creek	MCNSAND-03	Sand Creek U/S of the Hubbard Road crossing	9/16/2003	6.4
HM08D005	Sand Creek	MCNSAND-03	Sand Creek, U/S of Hubbard Road Crossing	6/18/2008	4.6
338501	Sand Creek	MCNSAND-2A	Sand Creek at the Johnson residence	9/16/2003	6.3
HM08D015	Sand Creek	MCNSAND-2A	Sand Creek at the Johnson residence	6/18/2008	7.2

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
East Redwater Creek	474957105145701	6/22/82	16.00	--	--	--	--	--	--	170	220	1800	1850	--	< 100	< 10	--	--	--
East Redwater Creek	474957105145701	8/24/82	1.20	--	--	--	--	--	--	100	130	1200	1250	--	< 100	50	--	150	--
East Redwater Creek	474957105145701	10/19/82	5.40	--	--	--	--	--	--	150	190	1200	1250	--	< 100	10	--	30	--
East Redwater Creek	475401105123001	6/23/82	1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	475401105123001	10/19/82	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	3EF	5/26/99	--	4.51	--	--	--	4010	36	--	--	1300	1320	--	20	80	--	--	--
East Redwater Creek	5188TR01	6/15/76	--	--	--	--	--	--	--	--	--	--	--	--	70	--	--	--	--
East Redwater Creek	5188TR01	6/15/76	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	5288NO01	6/15/76	--	--	--	--	--	--	--	--	--	--	--	--	30	--	--	--	--
East Redwater Creek	5385EA01	8/23/95	--	--	--	--	--	--	--	--	--	1200	1205	--	< 10	77	--	--	--
East Redwater Creek	5385EA01	8/23/95	1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	5385EA01	6/17/08	0.39	--	11.57	27.12	8.47	4590	--	< 50	--	--	--	1170	< 10	55	--	--	18
East Redwater Creek	5385EA01	8/28/08	--	--	9.67	15.54	9.13	4760	--	< 50	--	--	--	1460	< 10	109	--	--	2
East Redwater Creek	M48RDWEC01	6/19/03	--	--	--	--	--	--	60800	50	--	2750	2755	--	< 10	--	--	--	--
East Redwater Creek	M48RDWEC01	6/19/03	--	--	--	--	--	--	--	--	--	--	--	--	--	189	--	--	--
East Redwater Creek	M48RDWEC01	6/19/03	--	174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	M48RDWEC01	6/19/03	5.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	M48RDWEC02	6/19/03	5.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	M48RDWEC02	6/19/03	--	--	--	--	--	--	30000	50	--	3230	3235	--	< 10	--	--	--	--
East Redwater Creek	M48RDWEC02	6/19/03	--	--	--	--	--	--	--	--	--	--	--	--	--	248	--	--	--
East Redwater Creek	M48RDWEC02	6/19/03	--	39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	M48RDWEC03	6/19/03	0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	M48RDWEC03	6/19/03	--	--	--	--	--	--	51000	40	--	2420	2425	--	10	--	--	--	--
East Redwater Creek	M48RDWEC03	6/19/03	--	--	--	--	--	--	--	--	--	--	--	--	--	187	--	--	--
East Redwater Creek	M48RDWEC03	6/17/08	0.11	--	13.38	31.26	8.46	7230	--	< 50	--	--	--	2750	< 10	345	--	--	19
East Redwater Creek	M48RDWEC04	6/19/03	0.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	M48RDWEC04	6/19/03	--	--	--	--	--	--	11000	< 10	--	1920	1960	--	40	--	--	--	--
East Redwater Creek	M48RDWEC04	6/19/03	--	--	--	--	--	--	--	--	--	--	--	--	--	151	--	--	--
East Redwater Creek	M48RDWEC05	6/17/08	0.03	--	16.77	29.44	8.74	10500	--	< 50	--	--	--	3140	< 10	111	--	--	10
East Redwater Creek	M48RWENF01	6/19/03	0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
East Redwater Creek	M48RWENF01	6/19/03	--	--	--	--	--	--	5500	90	--	2600	2620	--	20	--	--	--	--
East Redwater Creek	M48RWENF01	6/19/03	--	--	--	--	--	--	--	--	--	--	--	--	--	435	--	--	--
East Redwater Creek	M48RWENF01	6/17/08	0.03	--	11.18	26.42	8.43	7450	--	< 50	--	--	--	2380	10	205	--	--	24
Horse Creek	6177520	4/1/77	1.00	--	--	--	--	--	--	10	10	750	760	--	10	60	--	--	--
Horse Creek	6177520	10/19/77	0.03	--	--	--	--	--	--	180	230	3600	3610	--	10	100	--	--	--
Horse Creek	6177520	3/22/78	150.00	--	--	--	--	--	--	250	320	890	1380	--	490	210	--	--	--
Horse Creek	6177520	4/25/78	1.00	--	--	--	--	--	--	< 10	--	960	980	--	20	40	--	--	--
Horse Creek	6177520	5/9/78	2.40	--	--	--	--	--	--	10	10	1400	1400	--	10	80	--	--	--
Horse Creek	6177520	6/8/78	1.60	--	--	--	--	--	--	10	10	1100	1180	--	80	< 10	--	--	--
Horse Creek	6177520	7/12/78	1.80	--	--	--	--	--	--	30	40	1100	1150	--	< 100	40	--	--	--
Horse Creek	6177520	8/9/78	0.27	--	--	--	--	--	--	100	130	1500	1540	--	40	20	--	--	--
Horse Creek	6177520	9/13/78	0.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	6177520	10/11/78	0.66	--	--	--	--	--	--	10	10	1100	1150	--	< 100	50	--	--	--
Horse Creek	6177520	11/14/78	0.99	--	--	--	--	--	--	10	10	930	940	--	10	20	--	--	--
Horse Creek	6177520	3/19/79	20.00	--	--	--	--	--	--	350	450	1300	1810	--	510	140	--	--	--

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Horse Creek	6177520	4/11/79	126.00	--	--	--	--	--	--	150	190	930	1140	--	210	80	--	--	--
Horse Creek	6177520	5/9/79	15.00	--	--	--	--	--	--	10	10	760	770	--	10	40	--	--	--
Horse Creek	6177520	6/5/79	2.80	--	--	--	--	--	--	10	10	3400	21400	--	18000	20	--	--	--
Horse Creek	6177520	7/10/79	1.40	--	--	--	--	--	--	20	20	2000	2040	--	40	50	--	--	--
Horse Creek	6177520	8/21/79	0.05	--	--	--	--	--	--	130	160	2700	2710	--	10	--	--	--	--
Horse Creek	6177520	6/22/82	0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	6177520	10/19/82	0.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	4783HO01	8/23/95	--	--	--	--	--	--	--	--	--	1400	1420	--	20	88	--	--	--
Horse Creek	4783HO01	8/23/95	1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	4881HO01	8/23/95	--	--	--	--	--	--	--	--	--	1100	1130	--	30	18	--	--	--
Horse Creek	M48DWDYC01	6/17/08	0.05	--	5.02	17.54	7.85	20300	--	< 50	--	--	--	3430	20	173	--	--	11
Horse Creek	M48HRSEC01	6/4/03	--	--	13	18	9.2	--	105000	--	--	2620	2660	--	40	--	--	--	--
Horse Creek	M48HRSEC01	6/4/03	--	--	--	--	--	--	--	--	--	--	--	--	--	139	--	--	--
Horse Creek	M48HRSEC02	6/4/03	--	--	10.4	16	8.7	--	92000	--	--	1380	1400	--	20	--	--	--	--
Horse Creek	M48HRSEC02	6/4/03	--	--	--	--	--	--	--	--	--	--	--	--	--	68	--	--	--
Horse Creek	M48HRSEC02	6/4/03	1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	M48HRSEC02	6/18/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-01	7/11/03	0.00	--	--	18.7	8.47	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-02	7/11/03	--	--	9.6	20.1	8.3	--	<10000	< 50	--	1300	1325	--	< 50	40	< 10	--	--
Horse Creek	MCNHORC-02	7/11/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-03	6/7/05	--	--	9.58	14.1	7.64	--	646000	100	--	3500	3830	--	330	620	440	--	--
Horse Creek	MCNHORC-03	6/17/08	0.15	--	5.20	18.21	7.55	5240	--	< 50	--	--	--	965	< 10	41	--	--	5
Horse Creek	MCNHORC-03	8/27/08	--	--	14.80	15.00	8.58	7310	--	< 50	--	--	--	3270	< 10	247	--	--	4
Horse Creek	MCNHORC-04	7/11/03	--	--	7.36	26.3	9.11	--	20000	< 50	--	4500	4525	--	< 50	260	40	--	--
Horse Creek	MCNHORC-04	7/11/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-04	6/18/08	0.12	--	7.45	19.04	8.80	8770	--	< 50	--	--	--	1670	< 10	37	--	--	10
Horse Creek	MCNHORC-05	7/11/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-05	7/11/03	--	--	8.37	26.1	8.9	--	58000	< 50	--	2400	2425	--	< 50	150	30	--	--
Horse Creek	MCNHORC-05	8/6/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-05	8/6/03	--	--	7.1	23.9	8.94	--	121000	< 50	--	4900	4925	--	< 50	580	20	--	--
Horse Creek	MCNHORC-05	8/13/03	--	--	9.4	26.2	9.03	--	120000	< 50	--	8300	8325	--	< 50	710	50	--	--
Horse Creek	MCNHORC-05	8/13/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-05	8/20/03	--	--	7.53	21.2	9.17	--	71000	< 50	--	9700	9725	--	< 50	560	30	--	--
Horse Creek	MCNHORC-05	8/20/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-05	8/27/03	--	--	8.86	20.8	9.3	--	64000	500	--	7900	7925	--	< 50	360	30	--	--
Horse Creek	MCNHORC-05	8/27/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-05	5/5/04	--	--	9.35	17.7	8.33	--	33000	< 50	--	1900	1925	--	< 50	30	20	--	--
Horse Creek	MCNHORC-05	5/13/04	--	--	12.79	7.9	8.53	--	11000	< 50	--	2200	2225	--	< 50	80	10	--	--
Horse Creek	MCNHORC-05	5/20/04	--	--	8.17	17.3	8.46	--	18000	< 50	--	2700	2725	--	< 50	110	20	--	--
Horse Creek	MCNHORC-05	5/27/04	--	--	9.87	16.8	8.43	--	<10000	< 50	--	2200	2225	--	< 50	60	10	--	--
Horse Creek	MCNHORC-05	8/5/04	--	--	4.45	21.9	7.94	--	284000	870	--	5700	8380	--	2680	610	240	--	--
Horse Creek	MCNHORC-05	8/16/04	--	--	7.31	22.6	8.58	--	56000	< 50	--	4500	4525	--	< 50	270	50	--	--
Horse Creek	MCNHORC-05	8/16/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-05	8/23/04	--	--	6.64	16.8	8.76	--	126000	50	--	4600	4625	--	< 50	280	50	--	--
Horse Creek	MCNHORC-05	8/23/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Horse Creek	MCNHORC-05	8/30/04	--	--	11.46	23.7	8.87	--	76000	< 50	--	5200	5225	--	< 50	270	40	--	--
Horse Creek	MCNHORC-05	8/30/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Horse Creek	MCNHORC-05	6/7/05	--	--	9.54	13.4	7.63	--	2860000	200	--	7500	7860	--	360	1680	790	--	--
Horse Creek	MCNHORC-05	6/17/08	0.04	--	2.73	19.98	8.44	7680	--	< 50	--	--	--	2580	< 10	137	--	--	40
Nelson Creek	6131200	10/16/75	1.10	--	--	--	--	--	--	60	80	1500	2130	--	630	200	--	--	--
Nelson Creek	6131200	12/10/75	0.23	--	--	--	--	--	--	10	10	1700	1890	--	190	20	--	--	--
Nelson Creek	6131200	2/25/76	4.10	--	--	--	--	--	--	50	60	1300	1340	--	40	190	--	--	--
Nelson Creek	6131200	3/17/76	7.70	--	--	--	--	--	--	90	120	2600	2680	--	80	180	--	--	--
Nelson Creek	6131200	4/27/76	0.12	--	--	--	--	--	--	< 10	--	1200	1210	--	10	50	--	--	--
Nelson Creek	6131200	6/16/76	1.60	--	--	--	--	--	--	40	50	730	1200	--	470	250	--	--	--
Nelson Creek	6131200	3/8/77	1.80	--	--	--	--	--	--	60	80	960	1110	--	150	70	--	--	--
Nelson Creek	6131200	4/5/77	0.37	--	--	--	--	--	--	30	40	1800	1810	--	10	80	--	--	--
Nelson Creek	6131200	7/12/77	0.50	--	--	--	--	--	--	10	10	800	1330	--	530	300	--	--	--
Nelson Creek	6131200	9/8/77	3.30	--	--	--	--	--	--	90	120	930	1270	--	340	180	--	--	--
Nelson Creek	6131200	3/20/78	68.00	--	--	--	--	--	--	30	40	1300	1620	--	320	710	--	--	--
Nelson Creek	6131200	3/27/78	116.00	--	--	--	--	--	--	80	100	930	1190	--	260	290	--	--	--
Nelson Creek	6131200	4/7/78	3.10	--	--	--	--	--	--	10	10	970	1060	--	90	90	--	--	--
Nelson Creek	6131200	5/8/78	11.00	--	--	--	--	--	--	20	30	3700	5000	--	1300	1900	--	--	--
Nelson Creek	6131200	6/7/78	5.60	--	--	--	--	--	--	30	40	1100	1300	--	200	260	--	--	--
Nelson Creek	6131200	7/5/78	11.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nelson Creek	6131200	7/10/78	0.53	--	--	--	--	--	--	70	90	970	1020	--	< 100	50	--	--	--
Nelson Creek	6131200	8/8/78	0.10	--	--	--	--	--	--	100	130	1500	1520	--	20	40	--	--	--
Nelson Creek	6131200	9/12/78	8.20	--	--	--	--	--	--	110	140	3900	4750	--	850	3600	--	--	--
Nelson Creek	6131200	10/10/78	0.17	--	--	--	--	--	--	40	50	910	960	--	< 100	50	--	--	--
Nelson Creek	6131200	11/13/78	0.18	--	--	--	--	--	--	60	80	790	870	--	80	20	--	--	--
Nelson Creek	6131200	12/12/78	0.10	--	--	--	--	--	--	30	40	1000	1020	--	20	30	--	--	--
Nelson Creek	6131200	3/25/79	52.00	--	--	--	--	--	--	30	40	860	990	--	130	90	--	--	--
Nelson Creek	6131200	4/17/79	125.00	--	--	--	--	--	--	120	150	1400	2400	--	1000	320	--	--	--
Nelson Creek	6131200	5/3/79	3.20	--	--	--	--	--	--	50	60	1000	1020	--	20	40	--	--	--
Nelson Creek	6131200	6/4/79	0.98	--	--	--	--	--	--	20	20	1200	1230	--	30	60	--	--	--
Nelson Creek	6131200	7/2/79	0.03	--	--	--	--	--	--	< 10	0	1100	1200	--	100	40	--	--	--
Nelson Creek	6131200	6/17/08	0.33	--	8.76	23.2	8.72	2550	--	< 50	--	--	--	1120	< 10	74	--	--	16
Nelson Creek	472830106044001	4/4/77	0.44	--	--	--	--	--	--	20	30	1100	1150	--	< 100	70	--	--	--
Nelson Creek	4978NE01	7/12/94	--	--	--	--	--	--	--	--	--	1000	1005	--	< 10	68	--	--	--
Nelson Creek	M31NLSNC01	6/17/08	0.00	--	11.05	20.1	9.65	6150	--	< 50	--	--	--	3390	< 10	93	--	--	15
Nelson Creek	M31NLSNC02	6/17/08	0.24	--	9.23	25.8	8.85	4040	--	< 50	--	--	--	1670	< 10	76	--	--	22
Nelson Creek	MCNNLSN-01	7/14/03	--	--	--	--	--	--	16000	< 50	--	3600	3625	--	< 50	190	30	--	--
Nelson Creek	MCNNLSN-01	7/14/03	--	--	--	--	--	--	18000	< 50	--	3500	3525	--	< 50	180	30	--	--
Nelson Creek	MCNNLSN-02	7/9/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nelson Creek	MCNNLSN-03	7/10/03	--	--	--	--	--	--	440000	< 50	--	< 500	275	--	< 50	180	150	--	--
Nelson Creek	MCNNLSN-03	7/10/03	--	--	--	--	--	--	440000	< 50	--	< 500	275	--	< 50	180	150	--	--
Nelson Creek	GCUS-06	3/08/07	--	--	9.9	0.2	6.71	154	33	0.05	--	--	--	--	130	--	0.013	--	--
Nelson Creek	JCIN-01	9/26/06	--	--	--	15.5	8.74	3380	345	0.24	--	--	--	--	50	--	0.004	--	--
Nelson Creek	JCIN-01	0/22/06	--	--	4.53	4.7	7.65	3130	140	0.17	--	--	--	--	20	--	0.006	--	--
Nelson Creek	JCIN-01	11/11/06	--	--	--	5.0	7.6	3150	75	0.25	--	--	--	--	30	--	--	--	--

Table 1.3 Compiled Surface Water Nutrient Data

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Nelson Creek	JCIN-01	3/08/07	--	--	8.85	0.2	7.86	252	68	0.26	--	--	--	--	160	--	0.089	--	--
Nelson Creek	JCIN-01	4/16/07	--	--	15.08	20.6	8.23	3970	76	0.02	--	--	--	--	10	--	--	--	--
Nelson Creek	JCIN-01	5/09/07	--	--	8	25.9	9.17	4150	72	0.05	--	--	--	--	20	--	--	--	--
Nelson Creek	JCIN-01	6/12/07	--	--	5.38	22.4	8.99	3960	153	0.06	--	--	--	--	20	--	< 0.001	--	--
Nelson Creek	JCIN-01	7/10/20	--	--	10.09	28.1	9.36	4030	28	0.09	--	--	--	--	< 10	--	--	--	--
Nelson Creek	JCIN-01	8/07/07	--	--	0.2	20.4	8.61	5830	444	0.98	--	--	--	--	10	--	--	--	--
Nelson Creek	JCUS-03	3/08/07	--	--	9.67	3.6	7.06	127	30	0.17	--	--	--	--	250	--	0.146	--	--
Nelson Creek	NCDS-01	9/26/06	--	--	--	15.9	8.58	4400	9	0.11	--	--	--	--	< 50	--	< 0.001	--	--
Nelson Creek	NCDS-01	10/22/06	--	--	5.05	6.1	6.61	2720	13	< 0.010	--	--	--	--	< 10	--	0.014	--	--
Nelson Creek	NCDS-01	11/11/06	--	--	--	3.0	7.6	2460	6	< 0.010	--	--	--	--	30	--	--	--	--
Nelson Creek	NCDS-01	3/08/07	--	--	9.6	0.1	7.95	438	88	0.22	--	--	--	--	140	--	0.079	--	--
Nelson Creek	NCDS-01	4/16/07	--	--	3.37	8.9	8.55	5780	14	0.04	--	--	--	--	20	--	--	--	--
Nelson Creek	NCDS-01	5/09/07	--	--	0.41	13.8	8.73	6500	16	0.01	--	--	--	--	20	--	--	--	--
Nelson Creek	NCDS-01	6/12/07	--	--	5.22	18.3	8.58	4330	33	0.04	--	--	--	--	10	--	0.006	--	--
Nelson Creek	NCDS-01	7/09/07	--	--	8.65	18.4	9.69	8100	73	0.08	--	--	--	--	30	--	--	--	--
Nelson Creek	NCUS-02	3/08/07	--	--	8.96	4.1	8.03	1200	23	0.11	--	--	--	--	170	--	0.013	--	--
Nelson Creek	NCUS-02	4/17/07	--	--	3.93	7.7	8.68	13100	12	0.02	--	--	--	--	10	--	--	--	--
Nelson Creek	NCUS-02	5/10/07	--	--	5.64	12.2	8.9	11400	5	< 0.010	--	--	--	--	10	--	--	--	--
Nelson Creek	NCUS-02	6/14/07	--	--	2.42	18.3	8.87	9140	26	0.02	--	--	--	--	10	--	0.002	--	--
Nelson Creek	NCUS-02	7/11/07	--	--	4.64	22.5	8.94	6980	98	0.1	--	--	--	--	< 10	--	--	--	--
Nelson Creek	POND-25	6/13/07	--	--	11.61	23.1	9.67	1110	< 18	0.06	--	--	--	--	20	--	< 0.001	--	--
Nelson Creek	POND-25	7/10/07	--	--	8.71	24.4	9.89	11600	52	0.1	--	--	--	--	60	--	--	--	--
Nelson Creek	POND-25A	6/13/07	--	--	14.52	22.2	8.71	7630	4	0.07	--	--	--	--	20	--	0.003	--	--
Nelson Creek	POND-25A	7/09/07	--	--	11.25	21.5	9.02	14800	< 1	0.04	--	--	--	--	10	--	--	--	--
Nelson Creek	RES-01	9/26/06	--	--	--	10.6	6.77	480	497	0.14	--	--	--	--	20	--	0.1	--	--
Nelson Creek	RES-01	10/22/06	--	--	5.19	3.3	5.52	435	232	0.88	--	--	--	--	140	--	0.011	--	--
Nelson Creek	RES-01	11/11/06	--	--	--	2.0	7.5	492	613	3.02	--	--	--	--	90	--	--	--	--
Nelson Creek	RES-01	3/07/07	--	--	9.46	2.6	8.31	129	26	0.08	--	--	--	--	520	--	0.008	--	--
Nelson Creek	RES-01	4/16/07	--	--	7.01	9.8	7.63	135	62	0.11	--	--	--	--	80	--	--	--	--
Nelson Creek	RES-01	5/09/07	--	--	6.06	13.7	8.3	155	18	0.03	--	--	--	--	10	--	--	--	--
Nelson Creek	RES-01	6/12/07	--	--	10.13	21.9	8.82	233	211	0.41	--	--	--	--	30	--	< 0.001	--	--
Nelson Creek	RES-01	7/10/07	--	--	8.67	16.6	8.25	330	202	0.35	--	--	--	--	130	--	--	--	--
Nelson Creek	RES-01	8/07/07	--	--	9.87	26.0	7.19	458	949	0.48	--	--	--	--	20	--	--	--	--
Nelson Creek	RES-19	7/10/07	--	--	8.66	19.6	8.46	386	45	0.01	--	--	--	--	20	--	--	--	--
Nelson Creek	RES-19A	7/10/07	--	--	7.81	19.9	8.28	418	96	0.08	--	--	--	--	80	--	--	--	--
Nelson Creek	RES-20	6/13/07	--	--	15.83	29.1	8.81	253	212	0.12	--	--	--	--	50	--	0.007	--	--
Nelson Creek	RES-20	7/10/07	--	--	8.97	17.4	8.78	369	72	0.03	--	--	--	--	20	--	--	--	--
Nelson Creek	RES-20	8/07/07	--	--	8.23	31.0	9.04	669	94	0.13	--	--	--	--	< 10	--	--	--	--
Nelson Creek	RES-24	6/13/07	--	--	13.14	25.3	9.09	210	9	0.04	--	--	--	--	10	--	0.147	--	--
Nelson Creek	RES-24	7/09/07	--	--	1.4	20.5	8.11	231	13	0.48	--	--	--	--	20	--	--	--	--
Nelson Creek	RES-24	8/08/07	--	--	4.82	19.2	8.57	252	119	0.12	--	--	--	--	< 10	--	--	--	--
Nelson Creek	SFUS-01	9/26/06	--	--	--	15.9	8.26	55300	81	3.03	--	--	--	--	110	--	9.49	--	--
Nelson Creek	SFUS-01	10/22/06	--	--	1.92	5.9	8.55	60000	106	0.17	--	--	--	--	< 10	--	0.012	--	--
Nelson Creek	SFUS-01	3/08/07	--	--	7.84	2.4	7.97	935	12	0.08	--	--	--	--	180	--	0.065	--	--
Nelson Creek	SFUS-01	4/17/07	--	--	8.32	10.9	8.74	9540	17	0.02	--	--	--	--	10	--	--	--	--

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Nelson Creek	SFUS-01	5/09/07	--	--	--	20.5	9.14	9560	4	0.01	--	--	--	--	30	--	--	--	--
Nelson Creek	SFUS-01	6/13/07	--	--	15.51	18.9	9.67	10900	12	0.09	--	--	--	--	10	--	0.008	--	--
Nelson Creek	SFUS-01	7/11/07	--	--	--	21.4	10.08	18500	22	0.12	--	--	--	--	10	--	--	--	--
Nelson Creek	UNUS-04	3/08/07	--	--	9.14	3.5	7.56	143	10	0.08	--	--	--	--	1250	--	0.026	--	--
Nelson Creek	UNUS-05	3/08/07	--	--	7.37	8.3	8.1	695	8	0.04	--	--	--	--	60	--	0.027	--	--
Nelson Creek	UNUS-05	4/17/07	--	--	5.05	4.8	8.21	3500	25	< 0.010	--	--	--	--	10	--	--	--	--
Nelson Creek	UNUS-05	5/10/07	--	--	6.1	10.8	8.39	3260	132	0.02	--	--	--	--	10	--	--	--	--
Nelson Creek	GCUS-06	3/08/07	--	--	9.9	0.2	6.71	154	33	0.05	--	--	--	--	130	--	0.013	--	--
Pasture Creek	474226105150301	6/23/82	0.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pasture Creek	474226105150301	10/19/82	0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pasture Creek	3B	5/25/99	--	--	--	--	--	3760	< 10	--	--	1100	1130	--	30	28	--	--	--
Pasture Creek	5185PA01	8/23/95	--	--	--	--	--	--	--	--	--	1100	1110	--	10	38	--	--	--
Pasture Creek	5185PA01	8/23/95	1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pasture Creek	M48PSTRC01	6/20/03	--	--	--	--	--	--	3000	< 10	--	970	975	--	< 10	--	--	--	--
Pasture Creek	M48PSTRC01	6/20/03	--	--	--	--	--	--	--	--	--	--	--	--	--	27	--	--	--
Pasture Creek	M48PSTRC01	6/20/03	--	24 g/m2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pasture Creek	M48PSTRC01	6/17/08	0.14	--	15.70	25.64	8.77	4000	--	< 50	--	--	--	907	< 10	28	--	--	10
Pasture Creek	M48PSTRC01	8/28/08	--	--	9.03	12.37	8.90	8270	--	< 50	--	--	--	2330	< 10	137	--	--	5
Pasture Creek	M48PSTRC02	6/20/03	--	--	--	--	--	--	85000	60	--	2110	2130	--	20	--	--	--	--
Pasture Creek	M48PSTRC02	6/20/03	--	--	--	--	--	--	--	--	--	--	--	--	--	99	--	--	--
Pasture Creek	M48PSTRC03	6/17/08	0.13	--	12.17	22.80	8.50	6560	--	< 50	--	--	--	1980	10	140	--	--	52
Prarie Elk Creek	6175540	10/14/75	125	--	--	--	--	--	--	350	450	3300	3300.00	--	--	1500	--	--	--
Prarie Elk Creek	6175540	11/21/75	2.6	--	13.2	--	--	--	96000	<0.01	--	460	470	--	10	30	--	--	--
Prarie Elk Creek	6175540	12/11/75	2.6	--	11.4	--	--	--	--	10	10	3000	4000	--	1000	430	--	--	--
Prarie Elk Creek	6175540	1/29/76	87	--	12.2	--	--	--	--	90	120	2400	2730	--	330	160	--	--	--
Prarie Elk Creek	6175540	3/3/76	1.9	--	10.2	--	--	--	--	110	140	1600	1690	--	90	120	--	--	--
Prarie Elk Creek	6175540	3/18/76	285	--	10.5	--	--	--	--	260	330	4600	4760	--	160	820	--	--	--
Prarie Elk Creek	6175540	4/28/76	2.8	--	9.8	--	--	--	--	10	10	8500	130000	--	2000	1800	--	--	--
Prarie Elk Creek	6175540	5/27/76	1.9	--	8.9	--	--	--	--	30	40	550	560	--	10	80	--	--	--
Prarie Elk Creek	6175540	6/13/76	1170	--	7.8	--	--	--	--	120	150	4600	5350	--	750	2500	--	--	--
Prarie Elk Creek	6175540	7/21/76	2.1	--	8.7	--	--	--	--	<0.01	--	520	540	--	20	70	--	--	--
Prarie Elk Creek	6175540	8/20/76	1.6	--	8.2	--	--	--	--	<0.01	--	820	870	--	< 100	80	--	--	--
Prarie Elk Creek	6175540	9/22/76	1.8	--	8.9	--	--	--	--	30	40	510	520	--	10	60	--	--	--
Prarie Elk Creek	6175540	10/21/76	1.8	--	11.8	--	--	--	99000	40	50	480	530	--	< 100	60	--	--	--
Prarie Elk Creek	6175540	11/18/76	2.5	--	12	--	--	--	--	30	40	520	550	--	30	40	--	--	--
Prarie Elk Creek	6175540	12/22/76	1	--	11.8	--	--	--	--	170	220	460	520	--	60	20	--	--	--
Prarie Elk Creek	6175540	1/18/77	0.02	--	5.8	--	--	--	--	100	130	260	280	--	20	10	--	--	--
Prarie Elk Creek	6175540	2/10/77	0.5	--	2	--	--	--	--	130	170	630	650	--	20	90	--	--	--
Prarie Elk Creek	6175540	3/15/77	14	--	12	--	--	--	--	110	140	750	1040	--	290	450	--	--	--
Prarie Elk Creek	6175540	4/7/77	2.5	--	10	--	--	--	--	<0.01	--	480	800	--	320	70	--	--	--
Prarie Elk Creek	6175540	5/20/77	1.7	--	9.4	--	--	--	--	110	140	580	600	--	20	80	--	--	--
Prarie Elk Creek	6175540	6/16/77	39	--	7	--	--	--	--	300	390	1800	1800	--	--	2900	--	--	--
Prarie Elk Creek	6175540	7/12/77	2.1	--	8.4	--	--	--	--	<0.01	--	880	910	--	30	130	--	--	--
Prarie Elk Creek	6175540	8/18/77	0.81	--	8.8	--	--	--	--	<0.01	--	510	520	--	10	130	--	--	--
Prarie Elk Creek	6175540	9/14/77	1.2	--	--	--	--	--	--	200	260	10000	13200	--	3200	5300	--	--	--

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Prarie Elk Creek	6175540	10/21/77	1.5	--	12.2	--	--	--	--	10	10	330	500	--	170	60	--	--	--
Prarie Elk Creek	6175540	11/9/77	2.4	--	13.4	--	--	--	--	40	50	600	630	--	30	40	--	--	--
Prarie Elk Creek	6175540	12/13/77	0.72	--	10.8	--	--	--	--	280	360	510	690	--	180	50	--	--	--
Prarie Elk Creek	6175540	1/26/78	0.1	--	8	--	--	--	--	230	300	220	240	--	20	60	--	--	--
Prarie Elk Creek	6175540	3/21/78	1630	--	10.8	--	--	--	--	380	490	3100	3450	--	350	2000	--	--	--
Prarie Elk Creek	6175540	4/28/78	3	--	10.6	--	--	--	--	40	50	450	550	--	100	40	--	--	--
Prarie Elk Creek	6175540	5/12/78	7	--	9.8	--	--	--	--	40	50	3200	6200	--	3000	1300	--	--	--
Prarie Elk Creek	6175540	6/5/78	11	--	9	--	--	--	--	10	10	1100	1150	--	< 100	60	--	--	--
Prarie Elk Creek	6175540	7/25/78	2.1	--	7.4	--	--	--	--	10	10	700	710	--	10	40	--	--	--
Prarie Elk Creek	6175540	8/23/78	1.6	--	7.9	--	--	--	--	30	40	700	750	--	< 100	70	--	--	--
Prarie Elk Creek	6175540	9/13/78	217	--	6.8	--	--	--	--	140	180	2400	3280	--	880	2300	--	--	--
Prarie Elk Creek	6175540	10/23/78	2.9	--	11.4	--	--	--	--	20	30	350	370	--	20	20	--	--	--
Prarie Elk Creek	6175540	11/16/78	5.1	--	13.5	--	--	--	--	10	10	400	590	--	190	30	--	--	--
Prarie Elk Creek	6175540	12/14/78	1.1	--	12.6	--	--	--	--	50	60	310	400	--	90	20	--	--	--
Prarie Elk Creek	6175540	1/9/79	E0.2	--		--	--	--	--	40	50	230	270	--	40	20	--	--	--
Prarie Elk Creek	6175540	3/30/79	55	--	12.2	--	--	--	--	100	130	620	930	--	310	120	--	--	--
Prarie Elk Creek	6175540	4/10/79	794	--	10.6	--	--	--	--	70	90	1800	2020	--	220	500	--	--	--
Prarie Elk Creek	6175540	5/14/79	8	--	9	--	--	--	--	10	10	610	630	--	20	10	--	30	--
Prarie Elk Creek	6175540	6/6/79	3.6	--		--	--	--	--	30	40	520	700	--	180	20	--	60	--
Prarie Elk Creek	6175540	7/12/79	2	--	8.9	--	--	--	--	10	10	610	640	--	30	30	--	90	--
Prarie Elk Creek	6175540	8/13/79	1.7	--	9.3	--	--	--	--	40	50	720	730	--	10	50	--	150	--
Prarie Elk Creek	6175540	9/13/79	2	--	10.2	--	--	--	--	60	70	780	930	--	150	40	--	120	--
Prarie Elk Creek	6175540	06/18/08	1.95	--	6.75	28.1	8.19	NA	--	< 50	--	--	3090	3090	2580	599	--	--	4
Prarie Elk Creek	6175540	08/28/08	0.58	--	9.38	22.87	9.16	--	--	< 50	--	--	1990	1990	< 10	201	--	--	3
Prarie Elk Creek	5480PR01	8/10/95		--	--	--	--	--	--	--	--	500	510.00	--	10	48	--	--	--
Prarie Elk Creek	M49PREKC01	6/3/03	--	--	--	--	--	--	5040000	--	--	4960	5390.00	--	430	--	--	--	--
Prarie Elk Creek	M49PREKC01	6/3/03	0.00	24.4	--	--	--	--	--	--	--	--	--	--	--	1910	--	--	--
Prarie Elk Creek	M49PREKC02	06/03/03	--	--	--	--	--	--	80000	--	--	1790	1810	--	20	143	--	--	--
Prarie Elk Creek	M49PREKC02	06/18/08	0.001		9.46	28.3	8.57	NA	--	< 50	--	--	988	988	20	72	--	--	10
Prarie Elk Creek	M49PREKC03	7/12/03	E 0	20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prarie Elk Creek	M49PREKC04	7/12/03	E 0	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prarie Elk Creek	M49PREKC05	7/12/03	--	1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prarie Elk Creek	M49PREKC05	7/12/03	--	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prarie Elk Creek	M49PREKC06	06/18/08	0	--	10.96	19.1	9.19	NA	--	< 50	--	--	2780	2780	10	62	--	--	16
Prarie Elk Creek	M49PREKC07	06/18/08	0	--	8.22	20.7	9.01	NA	--	< 50	--	--	2810	2810	< 10	81	--	--	14
Prarie Elk Creek	MCNPREK-01	07/12/03	0.00	--	--	--	--	--	<10000	< 50	--	2100	2125	--	< 50	60	20	--	--
Prarie Elk Creek	MCNPREK-01	06/21/05	--	--	--	--	--	--	12000	< 50	--	< 500	275	--	< 50	80	40	--	--
Prarie Elk Creek	MCNPREK-03	07/12/03	--	--	--	--	--	--	35000	< 50	--	1400	1425	--	< 50	100	20	--	--
Prarie Elk Creek	MCNPREK-04	10/06/03	--	--	--	--	--	--	51000	< 50	--	1400	1425	--	< 50	80	50	--	--
Prarie Elk Creek	MCNPREK-06	07/12/03	--	--	--	--	--	--	8850000	160	--	800	1960	--	1160	920	850	--	--
Prarie Elk Creek	MCNPREK-4A	10/06/03	--	--	--	--	--	--	89000	260	--	1000	1100	--	100	80	10	--	--
Prarie Elk Creek	MCNPREK-4A	06/18/08	0.60	--	6.82	26.0	8.20	NA		< 50	--		1410	1410	600	163	--	--	11
Prarie Elk Creek	MCNPREK-4A	08/28/08	0.41	--	10.57	22.49	8.94			160	--		1150	1150	120	146	--	--	6
Prarie Elk Creek	MCNPREK-4AA	10/06/03	--	--	--	--	--	--	38000	< 50	--	600	625	--	< 50	40	40	--	--
Prarie Elk Creek	MCNPREK-4B	10/06/03	--	--	--	--	--	--	86000	80	--	600	625	--	< 50	80	10	--	--



**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Prarie Elk Creek	MCNPRESK-5B	10/6/03	--	--	--	--	--	--	69000	60	--	600	--	--	< 50	70	10	--	--
Redwater River	6177500	10/21/74	0.03	--	--	--	--	--	30000	170	220	1200	1230	--	30	40	--	--	--
Redwater River	6177500	11/18/74	0.11	--	--	--	--	--	--	60	80	470	520	--	< 100	20	--	--	--
Redwater River	6177500	12/16/74	0.07	--	--	--	--	--	--	100	130	510	560	--	50	40	--	--	--
Redwater River	6177500	1/20/75	0.07	--	--	--	--	--	--	390	500	880	900	--	20	20	--	--	--
Redwater River	6177500	2/24/75	0.05	--	--	--	--	--	--	--	--	--	--	--	20	70	--	--	--
Redwater River	6177500	3/18/75	0.26	--	--	--	--	--	--	130	170	460	480	--	20	20	--	--	--
Redwater River	6177500	4/14/75	22.00	--	--	--	--	--	--	50	60	970	1030	--	60	70	--	--	--
Redwater River	6177500	5/21/75	3.90	--	--	--	--	--	--	< 10	--	580	630	--	< 100	30	--	--	--
Redwater River	6177500	6/18/75	0.91	--	--	--	--	--	--	< 10	--	670	690	--	20	50	--	--	--
Redwater River	6177500	7/22/75	2.60	--	--	--	--	--	--	130	170	1100	1150	--	50	90	--	--	--
Redwater River	6177500	8/19/75	0.09	--	--	--	--	--	--	< 10	--	940	950	--	10	70	--	--	--
Redwater River	6177500	9/25/75	0.14	--	--	--	--	--	--	< 10	--	1300	1320	--	20	40	--	--	--
Redwater River	6177500	10/29/75	0.18	--	--	--	--	--	27000	50	60	920	940	--	20	90	--	--	--
Redwater River	6177500	11/20/75	0.24	--	--	--	--	--	--	< 10	--	1400	1420	--	20	10	--	--	--
Redwater River	6177500	12/10/75	0.29	--	--	--	--	--	--	200	260	950	970	--	20	< 10	--	--	--
Redwater River	6177500	1/27/76	0.96	--	--	--	--	--	--	50	60	1800	2030	--	230	40	--	--	--
Redwater River	6177500	2/25/76	12.00	--	--	--	--	--	--	50	60	930	990	--	60	30	--	--	--
Redwater River	6177500	3/19/76	7.20	--	--	--	--	--	--	40	50	1000	1010	--	10	40	--	--	--
Redwater River	6177500	4/29/76	2.20	--	--	--	--	--	--	10	10	710	790	--	80	20	--	--	--
Redwater River	6177500	5/26/76	2.40	--	--	--	--	--	--	40	50	650	660	--	10	50	--	--	--
Redwater River	6177500	6/14/76	16.00	--	--	--	--	--	--	170	220	1400	1720	--	320	120	--	--	--
Redwater River	6177500	7/20/76	0.32	--	--	--	--	--	--	< 10	--	790	840	--	< 100	80	--	--	--
Redwater River	6177500	8/18/76	0.83	--	--	--	--	--	--	< 10	--	1600	1710	--	110	100	--	--	--
Redwater River	6177500	9/22/76	0.14	--	--	--	--	--	--	20	30	540	550	--	10	70	--	--	--
Redwater River	6177500	10/20/76	0.09	--	--	--	--	--	<1000	40	50	650	700	--	< 100	20	--	--	--
Redwater River	6177500	11/17/76	0.07	--	--	--	--	--	--	< 10	--	710	730	--	20	20	--	--	--
Redwater River	6177500	12/21/76	0.11	--	--	--	--	--	--	440	570	910	940	--	30	20	--	--	--
Redwater River	6177500	1/18/77	0.05	--	--	--	--	--	--	860	1110	1500	1510	--	10	< 10	--	--	--
Redwater River	6177500	2/17/77	0.11	--	--	--	--	--	--	670	860	1100	1160	--	60	30	--	--	--
Redwater River	6177500	3/8/77	3.30	--	--	--	--	--	--	10	10	550	630	--	80	20	--	--	--
Redwater River	6177500	4/22/77	0.96	--	--	--	--	--	--	10	10	460	470	--	10	20	--	--	--
Redwater River	6177500	5/19/77	0.67	--	--	--	--	--	--	20	30	630	640	--	10	40	--	--	--
Redwater River	6177500	6/14/77	0.11	--	--	--	--	--	--	< 10	--	680	730	--	< 100	90	--	--	--
Redwater River	6177500	7/13/77	0.07	--	--	--	--	--	--	30	40	970	980	--	10	120	--	--	--
Redwater River	6177500	9/12/77	0.09	--	--	--	--	--	--	30	40	530	540	--	10	60	--	--	--
Redwater River	6177500	10/19/77	0.09	--	--	--	--	--	--	50	60	720	730	--	10	60	--	--	--
Redwater River	6177500	11/7/77	0.11	--	--	--	--	--	--	20	30	660	670	--	10	50	--	--	--
Redwater River	6177500	12/13/77	0.10	--	--	--	--	--	--	530	680	710	740	--	30	20	--	--	--
Redwater River	6177500	1/12/78	0.10	--	--	--	--	--	--	790	1020	1000	1040	--	40	20	--	--	--
Redwater River	6177500	3/22/78	1060.00	--	--	--	--	--	--	280	360	1600	2000	--	400	610	--	--	--
Redwater River	6177500	4/25/78	7.10	--	--	--	--	--	--	10	10	660	790	--	130	20	--	--	--
Redwater River	6177500	5/9/78	15.00	--	--	--	--	--	--	30	40	720	730	--	10	40	--	--	--
Redwater River	6177500	6/8/78	21.00	--	--	--	--	--	--	10	10	800	820	--	20	10	--	--	--
Redwater River	6177500	7/12/78	30.00	--	--	--	--	--	--	30	40	920	970	--	< 100	60	--	--	--

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Redwater River	6177500	8/9/78	2.60	--	--	--	--	--	--	50	60	760	770	--	10	< 10	--	--	--
Redwater River	6177500	9/14/78	3.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	6177500	10/11/78	4.20	--	--	--	--	--	--	20	30	830	840	--	10	20	--	--	--
Redwater River	6177500	11/13/78	3.60	--	--	--	--	--	--	30	40	620	650	--	30	20	--	--	--
Redwater River	6177500	12/13/78	2.60	--	--	--	--	--	--	80	100	760	810	--	50	20	--	--	--
Redwater River	6177500	1/8/79	0.30	--	--	--	--	--	--	260	330	870	920	--	50	20	--	--	--
Redwater River	6177500	2/20/79	0.60	--	--	--	--	--	--	260	330	700	840	--	140	< 10	--	--	--
Redwater River	6177500	3/19/79	143.00	--	--	--	--	--	--	70	90	840	1370	--	530	80	--	--	--
Redwater River	6177500	4/11/79	489.00	--	--	--	--	--	--	90	120	860	1480	--	620	210	--	--	--
Redwater River	6177500	5/9/79	50.00	--	--	--	--	--	--	30	40	630	950	--	320	30	--	90	--
Redwater River	6177500	6/5/79	13.00	--	--	--	--	--	--	30	40	900	940	--	40	10	--	30	--
Redwater River	6177500	7/10/79	2.40	--	--	--	--	--	--	20	20	1800	1840	--	40	30	--	90	--
Redwater River	6177500	8/21/79	0.89	--	--	--	--	--	--	50	60	440	450	--	10	140	--	430	--
Redwater River	6177500	9/12/79	0.18	--	--	--	--	--	--	40	50	320	390	--	70	20	--	60	--
Redwater River	6177500	10/17/79	0.28	--	--	--	--	--	--	10	10	950	960	--	10	30	--	90	--
Redwater River	6177500	11/6/79	0.96	--	--	--	--	--	--	80	100	660	670	--	10	10	--	30	--
Redwater River	6177500	12/4/79	1.80	--	--	--	--	--	--	60	70	680	830	--	150	10	--	30	--
Redwater River	6177500	1/8/80	0.35	--	--	--	--	--	--	130	160	1300	1480	--	180	20	--	60	--
Redwater River	6177500	2/19/80	0.91	--	--	--	--	--	--	110	130	660	810	--	150	10	--	30	--
Redwater River	6177500	3/26/80	5.50	--	--	--	--	--	--	80	100	1000	1040	--	40	30	--	90	--
Redwater River	6177500	4/22/80	1.70	--	--	--	--	--	--	0	0	1100	1110	--	10	60	--	180	--
Redwater River	6177500	5/13/80	0.35	--	--	--	--	--	--	40	50	1000	1730	--	730	40	--	120	--
Redwater River	6177500	6/10/80	0.10	--	--	--	--	--	--	10	10	740	750	--	10	40	--	120	--
Redwater River	6177500	7/28/80	0.01	--	--	--	--	--	--	0	0	1700	1700	--	0	70	--	210	--
Redwater River	6177500	8/27/80	0.02	--	--	--	--	--	--	60	70	1400	1800	--	400	350	--	1100	--
Redwater River	6177500	9/17/80	0.01	--	--	--	--	--	--	70	80	1900	1900	--	0	70	--	210	--
Redwater River	6177500	10/21/80	0.02	--	--	--	--	--	--	40	50	1400	1400	--	0	90	--	280	--
Redwater River	6177500	11/19/80	0.08	--	--	--	--	--	--	40	50	1200	1200	--	0	50	--	150	--
Redwater River	6177500	12/17/80	0.28	--	--	--	--	--	--	80	100	830	930	--	100	30	--	90	--
Redwater River	6177500	1/20/81	0.58	--	--	--	--	--	--	120	150	550	600	--	50	50	--	150	--
Redwater River	6177500	2/18/81	1.00	--	--	--	--	--	--	80	100	90	90	--	0	30	--	90	--
Redwater River	6177500	3/10/81	0.61	--	--	--	--	--	--	40	50	730	740	--	10	30	--	90	--
Redwater River	6177500	4/28/81	0.24	--	--	--	--	--	--	60	80	1100	1120	--	20	40	--	120	--
Redwater River	6177500	5/21/81	0.13	--	--	--	--	--	--	90	120	1900	1940	--	40	60	--	180	--
Redwater River	6177500	6/29/81	0.08	--	--	--	--	--	--	90	120	1300	1580	--	280	40	--	120	--
Redwater River	6177500	10/30/81	0.08	--	--	--	--	--	--	240	310	1400	1420	--	20	40	--	120	--
Redwater River	6177500	12/3/81	0.01	--	--	--	--	--	--	270	350	990	1120	--	130	40	--	120	--
Redwater River	6177500	3/4/82	6.20	--	--	--	--	--	--	280	360	1600	1840	--	240	50	--	150	--
Redwater River	6177500	4/22/82	3.00	--	--	--	--	--	--	180	230	1100	1150	--	< 100	80	--	250	--
Redwater River	6177500	5/26/82	6.20	--	--	--	--	--	--	180	230	700	750	--	< 100	70	--	210	--
Redwater River	6177500	6/22/82	3.00	--	--	--	--	--	--	190	240	1900	1950	--	< 100	< 10	--	--	--
Redwater River	6177500	8/24/82	0.05	--	--	--	--	--	--	140	180	1100	1150	--	< 100	60	--	180	--
Redwater River	6177500	9/21/82	0.03	--	--	--	--	--	--	160	210	2100	2150	--	< 100	30	--	90	--
Redwater River	6177500	10/19/82	0.06	--	--	--	--	--	--	180	230	1600	1650	--	< 100	40	--	120	--
Redwater River	6177500	11/29/82	0.31	--	--	--	--	--	--	150	190	1000	1050	--	< 100	20	--	60	--

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Redwater River	6177500	1/11/83	11.00	--	--	--	--	--	--	170	220	1000	1200	--	200	50	--	150	--
Redwater River	6177500	2/23/83	17.00	--	--	--	--	--	--	180	230	1400	1450	--	< 100	80	--	250	--
Redwater River	6177500	4/12/83	2.00	--	--	--	--	--	--	150	190	800	850	--	< 100	20	--	60	--
Redwater River	6177500	5/24/83	2.70	--	--	--	--	--	--	70	90	1100	1150	--	< 100	10	--	30	--
Redwater River	6177500	6/28/83	0.04	--	--	--	--	--	--	< 60	--	900	950	--	< 100	30	--	90	--
Redwater River	6177500	8/22/83	0.01	--	--	--	--	--	--	140	180	1500	1550	--	< 100	30	--	90	--
Redwater River	6177500	9/27/83	0.01	--	--	--	--	--	--	50	60	1600	1650	--	< 100	30	--	90	--
Redwater River	6177500	10/17/83	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	6177500	11/28/83	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	6177500	1/11/84	0.10	--	--	--	--	--	--	480	620	600	650	--	< 100	< 10	--	--	--
Redwater River	6177500	2/1/84	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	6177500	4/5/84	0.62	--	--	--	--	--	--	40	50	600	650	--	< 100	30	--	90	--
Redwater River	6177500	5/15/84	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	6177500	6/20/84	60.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	6177500	6/27/84	14.00	--	--	--	--	--	--	30	40	1000	1050	--	< 100	60	--	--	--
Redwater River	6177500	9/19/84	0.04	--	--	--	--	--	--	20	30	800	850	--	< 100	40	--	--	--
Redwater River	6177500	10/25/84	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	6177500	12/12/84	0.11	--	--	--	--	--	--	130	170	500	550	--	< 100	20	--	--	--
Redwater River	6177500	2/27/85	5.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	6177500	3/13/85	1.60	--	--	--	--	--	--	90	120	900	950	--	< 100	10	--	--	--
Redwater River	6177500	5/24/85	0.14	--	--	--	--	--	--	70	90	800	850	--	< 100	40	--	120	--
Redwater River	6177500	8/21/85	0.02	--	--	--	--	--	--	70	90	1000	1050	--	< 100	20	--	60	--
Redwater River	473052105253901	6/22/82	7.70	--	--	--	--	--	--	140	180	--	--	--	< 100	20	--	60	--
Redwater River	473052105253901	8/24/82	0.41	--	--	--	--	--	--	90	120	900	950	--	< 100	70	--	210	--
Redwater River	473052105253901	10/19/82	1.10	--	--	--	--	--	--	130	170	1800	1850	--	< 100	20	--	60	--
Redwater River	474256105150401	6/23/82	14.00	--	--	--	--	--	--	160	210	1300	1350	--	< 100	20	--	60	--
Redwater River	474256105150401	8/24/82	1.20	--	--	--	--	--	--	70	90	900	950	--	< 100	50	--	150	--
Redwater River	474256105150401	10/19/82	4.90	--	--	--	--	--	--	120	150	1200	1250	--	< 100	10	--	30	--
Redwater River	480111105182001	10/25/79	9.40	--	--	--	--	--	--	40	50	550	550	--	0	10	--	30	0
Redwater River	480111105182001	6/23/82	25.00	--	--	--	--	--	--	110	140	1500	1550	--	< 100	20	--	60	--
Redwater River	480111105182001	8/24/82	2.20	--	--	--	--	--	--	90	120	800	850	--	< 100	70	--	210	--
Redwater River	480111105182001	10/19/82	7.70	--	--	--	--	--	--	70	90	1600	1650	--	< 100	20	--	60	--
Redwater River	480315105125001	10/25/79	7.40	--	--	--	--	--	--	50	60	680	680	--	0	10	--	30	0
Redwater River	480315105125001	6/23/82	25.00	--	--	--	--	--	--	250	320	1600	1650	--	< 100	30	--	90	--
Redwater River	480315105125001	8/24/82	2.30	--	--	--	--	--	--	120	150	800	850	--	< 100	80	--	250	--
Redwater River	480315105125001	10/20/82	7.40	--	--	--	--	--	--	100	130	1700	1750	--	< 100	20	--	60	--
Redwater River	4581RE01	10/22/74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	4581RE01	10/22/74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	--	--
Redwater River	4581RE01	10/22/74	40.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	4581RE02	9/27/75	--	--	--	--	--	--	--	--	--	--	--	--	20	--	--	--	--
Redwater River	4783RE01	3/16/76	--	--	--	--	--	--	9000	--	--	--	--	--	50	--	20	--	--
Redwater River	4783RE01	3/16/76	2.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	4783RE01	6/16/78	--	--	--	--	--	--	--	30	--	--	--	--	40	70	< 10	--	--
Redwater River	4783RE01	8/15/78	--	--	8.35	--	--	--	45890	40	--	690	695	--	< 10	40	10	--	--
Redwater River	4783RE01	8/15/78	1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Redwater River	4783RE01	3/26/79	--	--	--	--	--	--	51200	160	--	770	1060	--	290	130	70	--	--
Redwater River	4783RE01	3/26/79	250.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	4783RE01	7/13/79	--	--	--	--	--	--	37590	10	--	750	755	--	< 10	40	10	--	--
Redwater River	4783RE01	7/13/79	3.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	4783RE01	10/15/79	--	--	--	--	--	--	25200	< 10	--	350	355	--	< 10	10	0	--	--
Redwater River	2D	05/26/99	--	0.41	--	--	--	4910	< 10	--	--	1600	1620	--	20	19	--	--	--
Redwater River	2F	05/26/99	--	--	--	--	--	4580	52	--	--	1300	1330	--	30	75	--	--	--
Redwater River	M48RDWR01	5/18/02	--	--	--	--	--	--	--	--	--	--	970	--	< 0.6	--	--	--	--
Redwater River	M48RDWR01	5/18/02	--	--	--	--	--	--	75700	--	--	--	--	--	--	--	--	--	--
Redwater River	M48RDWR01	6/13/02	--	--	--	--	--	--	--	--	--	--	1017	--	< 0.6	--	--	--	--
Redwater River	M48RDWR01	6/13/02	--	--	--	--	--	--	78300	--	--	--	--	--	--	--	--	--	--
Redwater River	M48RDWR01	7/17/02	--	--	--	--	--	--	--	--	--	--	1221	--	< 0.6	--	--	--	--
Redwater River	M48RDWR01	7/17/02	--	--	--	--	--	--	49700	--	--	--	--	--	--	--	--	--	--
Redwater River	M48RDWR01	7/17/02	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	M48RDWR01	7/17/02	--	141	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	M48RDWR01	8/14/02	--	--	--	--	--	--	--	--	--	--	1031	--	< 0.6	--	--	--	--
Redwater River	M48RDWR01	8/14/02	--	--	--	--	--	--	41500	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-01	8/6/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-01	8/6/03	--	--	6.62	23.3	8.37	--	<10000	< 50	--	1000	1025	--	< 50	40	< 10	--	--
Redwater River	MCNREDW-01	8/13/03	--	--	4.1	25	8.29	--	<10000	< 50	--	1200	1225	--	< 50	40	< 10	--	--
Redwater River	MCNREDW-01	8/13/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-01	8/20/03	--	--	4.48	22.1	8.25	--	<10000	< 50	--	1500	1525	--	< 50	40	< 10	--	--
Redwater River	MCNREDW-01	8/20/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-01	8/27/03	--	--	7.94	20.7	8.44	--	<10000	< 50	--	1700	1725	--	< 50	40	< 10	--	--
Redwater River	MCNREDW-01	8/27/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-01	5/5/04	--	--	10.54	16.9	8.07	--	13000	< 50	--	1000	1025	--	< 50	80	< 10	--	--
Redwater River	MCNREDW-01	5/13/04	--	--	12.88	7.3	8.37	--	<10000	< 50	--	900	925	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-01	5/27/04	--	--	14.44	16.5	8.39	--	<10000	< 50	--	1300	1325	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-01	8/5/04	--	--	8.46	21.3	8.28	--	<10000	< 50	--	1200	1225	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-01	8/16/04	--	--	10.32	19.9	8.33	--	<10000	< 50	--	1100	1125	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-01	8/23/04	--	--	6.34	17.1	8.19	--	<10000	< 50	--	1000	1025	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-01	8/23/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-01	8/30/04	--	--	11.89	21.6	8.56	--	<10000	< 50	--	1100	1125	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-01	8/30/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-01	6/16/08	0.01	--	11.60	22.8	8.31	NA	--	< 50	--	--	--	815	< 10	49	--	--	32
Redwater River	MCNREDW-01	8/27/08	--	--	9.43	17.98	8.39	--	--	< 50	--	--	--	1070	10	43	--	--	4
Redwater River	MCNREDW-02	8/6/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-02	8/6/03	--	--	6.3	21.4	8.33	--	55000	< 50	--	1300	1325	--	< 50	60	< 10	--	--
Redwater River	MCNREDW-02	8/13/03	--	--	4.8	23.4	8.35	--	32000	< 50	--	1800	1825	--	< 50	70	20	--	--
Redwater River	MCNREDW-02	8/13/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-02	8/20/03	--	--	4.25	19.5	8.3	--	11000	< 50	--	1600	1625	--	< 50	60	10	--	--
Redwater River	MCNREDW-02	8/20/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-02	8/27/03	--	--	7.72	18.5	8.48	--	10000	< 50	--	1800	1825	--	< 50	50	10	--	--
Redwater River	MCNREDW-02	8/27/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-02	5/5/04	--	--	9.72	17.5	8.05	--	37000	< 50	--	1100	1125	--	< 50	40	20	--	--

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Redwater River	MCNREDW-02	5/13/04	--	--	13.8	8.2	8.34	--	12000	< 50	--	1200	1225	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-02	5/20/04	--	--	12.66	20.3	8.27	--	<10000	< 50	--	1200	1225	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-02	5/27/04	--	--	12.22	16	8.31	--	<10000	< 50	--	1000	1025	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-02	8/5/04	--	--	14.54	24	8.16	--	<10000	< 50	--	1500	1525	--	< 50	30	< 10	--	--
Redwater River	MCNREDW-02	8/16/04	--	--	9.71	16	8.0	--	<10000	< 50	--	1400	1425	--	< 50	40	20	--	--
Redwater River	MCNREDW-02	8/23/04	--	--	9.4	15.4	7.95	--	<10000	< 50	--	900	925	--	< 50	30	10	--	--
Redwater River	MCNREDW-02	8/23/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-02	8/30/04	--	--	12.23	17.9	8.14	--	<10000	< 50	--	1100	1125	--	< 50	30	10	--	--
Redwater River	MCNREDW-02	8/30/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-02	6/16/08	0.28	--	12.19	22.8	8.48	NA	--	< 50	--	--	--	671	< 10	21	--	--	4
Redwater River	MCNREDW-02	8/27/08	0.15	--	9.16	16.16	8.64	--	--	< 50	--	--	--	1470	< 10	34	--	--	4
Redwater River	MCNREDW-03	8/6/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-03	8/6/03	--	--	7.3	22.4	8.88	--	36000	< 50	--	1500	1525	--	< 50	100	< 10	--	--
Redwater River	MCNREDW-03	8/13/03	--	--	6.6	24.4	8.92	--	33000	< 50	--	1700	1725	--	< 50	100	30	--	--
Redwater River	MCNREDW-03	8/13/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-03	8/20/03	--	--	6.11	21.9	8.92	--	81000	< 50	--	3200	3225	--	< 50	270	30	--	--
Redwater River	MCNREDW-03	8/20/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-03	8/27/03	--	--	7.45	20.1	8.96	--	47000	60	--	2300	2300	--	--	110	20	--	--
Redwater River	MCNREDW-03	8/27/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-03	5/5/04	--	--	7.2	16.3	8.01	--	108000	60	--	1600	1625	--	< 50	120	50	--	--
Redwater River	MCNREDW-03	5/13/04	--	--	11.92	6.0	8.39	--	33000	100	--	1800	1825	--	< 50	130	100	--	--
Redwater River	MCNREDW-03	5/20/04	--	--	8.01	19.3	8.31	--	40000	< 50	--	1400	1425	--	< 50	70	30	--	--
Redwater River	MCNREDW-03	5/27/04	--	--	7.96	14	8.24	--	38000	< 50	--	1700	1725	--	< 50	60	40	--	--
Redwater River	MCNREDW-03	8/5/04	--	--	7.6	21.4	8.41	--	158000	< 50	--	2300	2325	--	< 50	260	70	--	--
Redwater River	MCNREDW-03	8/16/04	--	--	5.44	21.5	8.42	--	94000	< 50	--	1900	1925	--	< 50	150	100	--	--
Redwater River	MCNREDW-03	8/23/04	--	--	7.83	16.1	8.43	--	94000	< 50	--	1800	1825	--	< 50	140	70	--	--
Redwater River	MCNREDW-03	8/30/04	--	--	6.26	18.5	8.63	--	89000	< 50	--	1700	1725	--	< 50	150	60	--	--
Redwater River	MCNREDW-03	6/23/05	--	--	4.19	24.1	8.14	--	23000	< 50	--	1300	1325	--	< 50	50	20	--	--
Redwater River	MCNREDW-03	6/16/08	0.16	--	7.42	22.1	8.74	NA	--	< 50	--	--	--	751	< 10	60	--	--	3
Redwater River	MCNREDW-03	8/27/08	0.06	--	8.51	16.47	8.89	--	--	< 50	--	--	--	1350	< 10	132	--	--	2
Redwater River	MCNREDW-04	8/6/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwater River	MCNREDW-04	8/6/03	--	--	9.79	22.6	8.4	--	92000	< 50	--	3100	3125	--	< 50	300	40	--	--
Redwater River	MCNREDW-04	8/13/03	--	--	8.2	23.9	9.0	--	108000	< 50	--	2400	2425	--	< 50	340	80	--	--
Redwater River	MCNREDW-04	8/20/03	--	--	8.86	21.9	9.14	--	186000	290	--	7300	--	--	< 50	480	90	--	--
Redwater River	MCNREDW-04	8/27/03	--	--	6.63	19.3	9.23	--	133000	480	--	6500	6525	--	< 50	420	110	--	--
Redwater River	MCNREDW-04	2/17/04	--	--	7.8	2.1	7.6	--	--	1160	--	2900	2925	--	< 50	150	120	--	--
Redwater River	MCNREDW-04	5/5/04	--	--	8.32	16.2	8.08	--	116000	< 50	--	1800	1825	--	< 50	170	90	--	--
Redwater River	MCNREDW-04	5/13/04	--	--	13.77	6.4	8.47	--	22000	< 50	--	1800	1825	--	< 50	120	20	--	--
Redwater River	MCNREDW-04	5/20/04	--	--	9.91	19.7	8.52	--	60000	< 50	--	1800	1825	--	< 50	120	30	--	--
Redwater River	MCNREDW-04	5/27/04	--	--	9.0	14.1	8.4	--	52000	< 50	--	2200	2225	--	< 50	120	30	--	--
Redwater River	MCNREDW-04	8/5/04	--	--	12.12	22.4	8.61	--	92000	310	--	4100	4125	--	< 50	330	40	--	--
Redwater River	MCNREDW-04	8/16/04	--	--	11.41	22.2	8.75	--	78000	< 50	--	4600	4625	--	< 50	250	60	--	--
Redwater River	MCNREDW-04	8/30/04	--	--	12.01	19	9.04	--	68000	< 50	--	4500	4525	--	< 50	270	50	--	--
Redwater River	MCNREDW-04	6/7/05	--	--	7.71	13.6	7.59	--	2850000	210	--	7100	7430	--	330	1710	860	--	--
Redwater River	MCNREDW-04	6/17/08	0.25	--	7.33	21.98	8.32	NA	--	< 50	--	--	--	859	< 10	86	--	--	51

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Redwater River	MCNREDW-04	8/27/08	0.00	--	10.92	16.41	8.95	--	--	< 50	--	--	--	2080	< 10	162	--	--	6
Redwater River	MCNREDW-1-8	6/7/05	--	--	6.59	12.7	7.58	--	2220000	100	--	5900	6180	--	280	1440	710	--	--
Redwater River	MCNREDW-2A	6/7/05	--	--	6.97	12.9	7.8	--	3420000	100	--	10500	10790	--	290	1900	890	--	--
Redwater River	MCNREDW-3A	6/22/05	--	--	9.4	30.2	8.48	--	15000	< 50	--	1100	1125	--	< 50	30	20	--	--
Redwater River	MCNREDW-3D	6/22/05	--	--	10.62	30	8.87	--	376000	< 50	--	1600	1625	--	< 50	260	240	--	--
Redwater River	MCNREDW-3G	6/22/05	--	--	8.94	30.3	8.42	--	31000	< 50	--	1400	1425	--	< 50	50	20	--	--
Redwater River	WMTP99-R025	9/26/01	--	--	10	14.5	8.65	--	34900	--	--	--	--	--	--	--	--	--	--
Sand Creek	5481SA01	8/21/95	--	--	--	--	--	--	--	--	--	8600	10030	--	1430	3960	--	--	--
Sand Creek	5481SA01	8/21/95	1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sand Creek	M49SANDC01	6/4/03	3.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sand Creek	M49SANDC01	6/4/03	--	--	--	--	--	--	6700000	--	--	7990	8520	--	530	--	--	--	--
Sand Creek	M49SANDC01	6/4/03	--	--	--	--	--	--	--	--	--	--	--	--	--	3560	--	--	--
Sand Creek	M49SANDC01	6/18/08	1.17	--	7.18	28.77	8.97	NA	--	< 50	--	--	--	1860	1050	442	--	--	19
Sand Creek	M49SANDC01	8/28/08	0.22	--	11.70	17.16	8.90	--	--	< 50	--	--	--	730	< 10	50	--	--	1
Sand Creek	M49SANDC02	7/12/03	0.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sand Creek	M49SANDC02	7/12/03	--	409	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sand Creek	M49SANDC02	6/18/08	0.06	--	8.02	21.16	8.81	NA	--	< 50	--	--	--	1220	270	454	--	--	36
Sand Creek	M49SANDC03	6/18/08	0.32	--	9.05	26.64	8.88	NA	--	< 50	--	--	--	1560	30	123	--	--	14
Sand Creek	M49SANDC03	8/28/08	0.00	--	10.00	20.81	7.02	--	--	< 50	--	--	--	540	< 10	14	--	--	2
Sand Creek	MCNSAND-01	7/12/03	--	--	--	--	--	--	3870000	< 50	--	900	1990	--	1090	1370	--	700	--
Sand Creek	MCNSAND-03	9/16/03	--	--	--	--	--	--	10000	90	--	6700	6725	--	< 50	400	--	40	--
Sand Creek	MCNSAND-03	6/18/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sand Creek	MCNSAND-2A	9/16/03	--	--	--	--	--	--	204000	130	--	1100	1125	--	< 50	140	--	150	--
Sand Creek	MCNSAND-2A	6/18/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	6131120	3/17/76	3.50	--	--	--	--	--	--	50	60	2100	2110	--	10	60	--	--	--
Timber Creek	6131120	4/28/76	0.76	--	--	--	--	--	--	10	10	1100	1150	--	< 100	50	--	--	--
Timber Creek	6131120	6/14/76	21.00	--	--	--	--	--	--	130	170	1300	1560	--	260	270	--	--	--
Timber Creek	6131120	4/5/77	1.10	--	--	--	--	--	--	50	60	1300	1310	--	10	70	--	--	--
Timber Creek	6131120	3/23/78	57.00	--	--	--	--	--	--	220	280	690	950	--	260	150	--	--	--
Timber Creek	6131120	4/17/78	1.90	--	--	--	--	--	--	< 10	--	570	590	--	20	30	--	--	--
Timber Creek	6131120	5/8/78	3.40	--	--	--	--	--	--	40	50	720	750	--	30	60	--	--	--
Timber Creek	6131120	6/7/78	5.50	--	--	--	--	--	--	80	100	1200	1290	--	90	60	--	--	--
Timber Creek	6131120	7/10/78	4.70	--	--	--	--	--	--	30	40	1100	1150	--	< 100	70	--	--	--
Timber Creek	6131120	8/8/78	0.48	--	--	--	--	--	--	70	90	1400	1420	--	20	50	--	--	--
Timber Creek	6131120	9/14/78	0.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	6131120	10/10/78	0.55	--	--	--	--	--	--	20	30	720	730	--	10	40	--	--	--
Timber Creek	6131120	11/13/78	0.81	--	--	--	--	--	--	10	10	720	730	--	10	20	--	--	--
Timber Creek	6131120	12/12/78	0.40	--	--	--	--	--	--	50	60	950	1000	--	50	40	--	--	--
Timber Creek	6131120	3/21/79	47.00	--	--	--	--	--	--	80	100	1000	1130	--	130	40	--	--	--
Timber Creek	6131120	4/17/79	128.00	--	--	--	--	--	--	60	70	860	970	--	110	80	--	250	--
Timber Creek	6131120	5/8/79	27.00	--	--	--	--	--	--	50	60	1200	1210	--	10	60	--	180	--
Timber Creek	6131120	6/4/79	3.00	--	--	--	--	--	--	80	100	1400	1400	--	--	40	--	120	--
Timber Creek	6131120	7/2/79	0.59	--	--	--	--	--	--	10	10	960	970	--	10	30	--	90	--
Timber Creek	6131120	8/20/79	0.10	--	--	--	--	--	--	10	10	770	780	--	10	40	--	120	--
Timber Creek	6131120	9/11/79	0.11	--	--	--	--	--	--	50	60	790	820	--	30	50	--	150	--

**Table 1.3 Compiled Surface Water Nutrient Data**

Segment ID	Site ID	Sample Date	Flow (cfs)	Chlor-a (mg/m2)	DO (mg/L)	Water Temp (°C)	pH (S.U.)	TDS (mg/L)	TSS (mg/L)	Total Ammonia as N (ug/L)	Total Ammonia as NH4 (ug/L)	TKN (ug/L)	Total N Calc (ug/L)	Total N per Sulfate Method (ug/L)	NO2 + NO3 as N (ug/L)	Total P (ug/L)	Total OrthoPhosphate (ug/L)	Total P as PO4 (ug/L)	Dissolved P (ug/L)
Timber Creek	6131120	8/28/08	--	--	9.15	19.21	9.39	--	--	< 50	--	--	--	2190	< 10	102	--	--	2
Timber Creek	4878TI01	7/12/94	--	--	--	--	--	--	--	--	--	1100	1110	--	10	25	--	--	--
Timber Creek	6131120	6/17/08	0.45	--	12.42	25.3	9.08	NA	--	< 50	--	--	--	1060	< 10	31	--	--	27
Timber Creek	M31TMBRC01	6/2/03	0.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC01	6/16/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC02	6/16/04	--	--	--	--	--	--	13600	--	--	820	1020	--	200	--	--	--	--
Timber Creek	M31TMBRC02	6/16/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC02	6/16/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC02	6/16/04	--	--	--	--	--	--	--	--	--	--	--	--	--	28	--	--	--
Timber Creek	M31TMBRC03	6/18/04	--	--	--	--	--	--	13500	--	--	1760	1765	--	< 10	--	--	--	--
Timber Creek	M31TMBRC03	6/18/04	--	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC03	6/18/04	2.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC03	6/18/04	--	--	--	--	--	--	--	--	--	--	--	--	--	48	--	--	--
Timber Creek	M31TMBRC03	6/17/08	0.26	--	7.70	27.8	9.13	NA	--	< 50	--	--	--	2120	< 10	85	--	--	30
Timber Creek	M31TMBRC03	8/29/08	--	--	0.45	13.11	8.44	--	--	2390	--	--	--	8700	20	643	--	--	30
Timber Creek	M31TMBRC04	6/17/04	--	--	--	--	--	--	23500	--	--	4640	4645	--	< 10	--	--	--	--
Timber Creek	M31TMBRC04	6/17/04	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC04	6/17/04	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC04	6/17/04	--	--	--	--	--	--	--	--	--	--	--	--	--	327	--	--	--
Timber Creek	M31TMBRC04	6/16/08	0.10	--	9.62	25.2	8.82	NA	--	< 50	--	--	--	2720	< 10	130	--	--	40
Timber Creek	M31TMBRC05	6/18/04	--	--	--	--	--	--	26500	--	--	2180	2185	--	< 10	--	--	--	--
Timber Creek	M31TMBRC05	6/18/04	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC05	6/18/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC05	6/18/04	--	--	--	--	--	--	--	--	--	--	--	--	--	121	--	--	--
Timber Creek	M31TMBRC06	6/17/04	--	--	--	--	--	--	1110000	--	--	--	--	--	--	--	--	--	--
Timber Creek	M31TMBRC06	6/17/04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	MCNTMBR-01	7/10/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	MCNTMBR-01	7/10/03	--	--	--	--	--	--	85000	--	--	5400	5425	--	< 50	490	100	--	--
Timber Creek	MCNTMBR-02	7/10/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	MCNTMBR-04	7/10/03	--	--	--	--	--	--	<10000	100	--	5100	5125	--	< 50	180	20	--	--
Timber Creek	MCNTMBR-04	7/10/03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Timber Creek	MCNTMBR-06	7/10/03	--	--	--	--	--	--	81000	< 50	--	1600	1625	--	< 50	100	60	--	--

**Table 1.4 Surface Water Salinity – Listed Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	SAR	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	10/16/75	1.1		12	1850	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	12/10/75	0.23		17	3250	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	02/25/76	4.1		6	995	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/17/76	7.7		7	1380	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	04/27/76	0.12		19	5850	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	06/16/76	1.6		10	1490	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/08/77	1.8		18	4300	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	04/05/77	0.37		22	4800	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	07/12/77	0.5		4	770	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	09/08/77	3.3		7	1160	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/20/78	68		2	272	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/27/78	116		3	418	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	04/07/78	3.1		8	2180	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	05/08/78	11		16	2720	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	06/07/78	5.6		10	2550	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	07/05/78	11				
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	07/10/78	0.53		14	3090	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	08/08/78	0.1		17	4800	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	09/12/78	8.2			1160	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	10/10/78	0.17		13	4620	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	11/13/78	0.18		20	6470	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	12/12/78	0.1		26	9200	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/25/79	52		3	447	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	04/17/79	125		4	1080	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	05/03/79	3.2		13	4820	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	06/04/79	0.98		17	7380	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	07/02/79	0.03		23	8200	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	02/22/83	4			620	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/04/83	1.9			2530	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/11/83	1			3090	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	04/13/83	0.07			4600	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	05/25/83	0.18			5100	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	01/29/84	18			760	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/21/84	3.9			2700	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	04/04/84	0.47			3150	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	06/12/84	0.6			1490	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	06/14/84	19			842	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	06/21/84	1.9			965	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	06/26/84	0.24			2080	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	02/26/85	2.6			780	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	02/28/85	6			800	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/19/85	1.5			2180	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	04/10/85	0.2			3600	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	04/12/00	0.05			9590	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	07/10/00	7.2			1040	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/13/01	7.6			1480	



**Table 1.4 Surface Water Salinity – Listed Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	SAR	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/27/01	0.32			3540	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	07/17/01	0.12			1390	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	04/16/02	1.1			4040	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	03/24/03	0.88			4860	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	05/07/03	0.01			6860	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	06/16/03	0.25			5820	
USGS	6131200	47.53555	-106.15248	Nelson Creek	U/S MT HWY 24 crossing	06/17/08	0.33	2550		3550	
Private	NCDS-01	47.47146	-106.0785	Nelson Creek	90 D/S of trail crossing	09/26/06		4400	20.3	10090	2780
Private	NCDS-01	47.47146	-106.0785	Nelson Creek	90 D/S of trail crossing	10/22/06		2720	16.4	31030	1500
Private	NCDS-01	47.47146	-106.0785	Nelson Creek	90 D/S of trail crossing	11/11/06		2460	15.2	3200	1180
Private	NCDS-01	47.47146	-106.0785	Nelson Creek	90 D/S of trail crossing	03/08/07		438	4.86	605	178
Private	NCDS-01	47.47146	-106.0785	Nelson Creek	90 D/S of trail crossing	04/16/07		5780	28.7	7370	3450
Private	NCDS-01	47.47146	-106.0785	Nelson Creek	90 D/S of trail crossing	05/09/07		6500	36.7	8122	3880
Private	NCDS-01	47.47146	-106.0785	Nelson Creek	90 D/S of trail crossing	06/12/07		4330	24.5	5629	2250
Private	NCDS-01	47.47146	-106.0785	Nelson Creek	90 D/S of trail crossing	07/09/07		8100	54.2	9697	4900
Private	NCUS-02	47.44675	-105.99245	Nelson Creek	NE¼SW¼S33T20NR25E	03/08/07		1200	7.84	1700	746
Private	NCUS-02	47.44675	-105.99245	Nelson Creek	NE¼SW¼S33T20NR25E	04/17/07		13100	35.1	14300	9150
Private	NCUS-02	47.44675	-105.99245	Nelson Creek	NE¼SW¼S33T20NR25E	05/10/07		11400	31.4	12580	7720
Private	NCUS-02	47.44675	-105.99245	Nelson Creek	NE¼SW¼S33T20NR25E	06/14/07		9140	25	10280	6150
Private	NCUS-02	47.44675	-105.99245	Nelson Creek	NE¼SW¼S33T20NR25E	07/11/07		6980	25.9	8627	3660
Private	POND-25	47.45766	-106.04968	Nelson Creek	SW¼SE¼S25R20NR44E	06/13/07		1110	29	1704	176
Private	POND-25	47.45766	-106.04968	Nelson Creek	SW¼SE¼S25R20NR44E	07/10/07		11600	218	14020	5830
Private	SFUS-01	47.43253	-106.01641	Nelson Creek, South Fork	3100 m U/S of mouth (Nelson Creek)	09/26/06		55300	68.1	7062	46800
Private	SFUS-01	47.43253	-106.01641	Nelson Creek, South Fork	3100 m U/S of mouth (Nelson Creek)	10/22/06		60000	64.1	275700	43100
Private	SFUS-01	47.43253	-106.01641	Nelson Creek, South Fork	3100 m U/S of mouth (Nelson Creek)	03/08/07		935	5.63	1394	517
Private	SFUS-01	47.43253	-106.01641	Nelson Creek, South Fork	3100 m U/S of mouth (Nelson Creek)	04/17/07		9540	22.6	10820	6030
Private	SFUS-01	47.43253	-106.01641	Nelson Creek, South Fork	3100 m U/S of mouth (Nelson Creek)	05/09/07		9560	25.6	13620	6210
Private	SFUS-01	47.43253	-106.01641	Nelson Creek, South Fork	3100 m U/S of mouth (Nelson Creek)	06/13/07		10900	25	12240	7310
Private	SFUS-01	47.43253	-106.01641	Nelson Creek, South Fork	3100 m U/S of mouth (Nelson Creek)	07/11/07		18500	30.5	18750	12300
Private	JCIN-01	47.45922	-106.02804	Johnson Coulee	1400 m U/S of mouth	09/26/06		4400	20.3	10090	2780
Private	JCIN-01	47.45922	-106.02804	Johnson Coulee	1400 m U/S of mouth	10/22/06		2720	16.4	31030	1500
Private	JCIN-01	47.45922	-106.02804	Johnson Coulee	1400 m U/S of mouth	11/11/06		2460	15.2	3200	1180
Private	JCIN-01	47.45922	-106.02804	Johnson Coulee	1400 m U/S of mouth	03/08/07		438	4.86	605	178
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	04/01/77	1		14	5200	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	10/19/77	0.03		29	13300	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	03/22/78	150		2	489	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	04/25/78	1		11	4900	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	05/09/78	2.4		15	6700	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	06/08/78	1.6		15	5500	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	07/12/78	1.8		6	2510	

**Table 1.4 Surface Water Salinity – Listed Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	SAR	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	08/09/78	0.27		12	4900	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	10/11/78	0.66		13	5200	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	11/14/78	0.99		15	7200	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	03/19/79	20		6	1670	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	04/11/79	126		2	749	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	05/09/79	15		7	3480	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	06/05/79	2.8		12	6150	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	07/10/79	1.4		25	7300	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	08/21/79	0.05		20	9080	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	06/22/82	0.52			7250	
USGS	6177520	47.42529	-105.61667	Horse Creek	D/S Horse Creek Road crossing, one mile west of Circle MT	10/19/82	0.28			8900	
USGS	472125105562600	47.35694	-105.94056	Nelson Creek, South Fork	T19N, R45E, SE¼ Section 35	07/17/75			1	1500	
USGS	472615105410901	47.43750	-105.68583	Horse Creek	T19N, R47E, NE¼ Section 2	07/28/75			8	1640	
USGS	472615105410902	47.43750	-105.68583	Horse Creek	T19N, R47E, NE¼ Section 2	07/28/75			10	3230	
USGS	472625105400000	47.44028	-105.66667	Horse Creek	T19N, R47E, NE¼ Section 1	07/28/75			9	2980	
USGS	472700105394501	47.45000	-105.66250	Horse Creek	T20N, R47E, NE¼ Section 36	05/06/76			52	3400	
USGS	472806105514100	47.46833	-105.86139	Horse Creek, South Fork	T20N, R46E, NE¼ Section 28	08/12/75			2	1440	
USGS	472830106044001	47.47500	-106.07778	Nelson Creek	800 m U/S of Crookers Coulee mouth	04/04/77	0.44		23	4900	
USGS	473118105484500	47.52167	-105.81250	Horse Creek, North Fork	T20N, R46E, NW¼ Section 2	08/08/75			1	1020	
USGS	473308105502200	47.55222	-105.83944	Horse Creek, North Fork	T21N, R46E, NE¼ Section 29	09/20/75			10	2980	
USGS	474516104494500	47.75444	-104.82917	East Redwater Creek	T23N, R54E, NE¼ Section 18	10/17/75			0.1	600	
USGS	474859105033100	47.81639	-105.05861	East Redwater Creek	T24N, R52E, NW¼ Section 28	10/07/75			6	2250	
USGS	474910104472501	47.81944	-104.79028	East Redwater Creek, North Fork	T24N, R54E, SE¼ Section 21	09/01/78			62	2820	
USGS	475210104540001	47.86944	-104.90000	Horse Creek	T25N, R53E, SE¼ Section 32	09/06/78			68	2550	
USGS	475218104540201	47.87167	-104.90056	Horse Creek	T25N, R53E, SE¼ Section 32	11/12/75			66	2500	
USGS	475226104530400	47.87389	-104.88444	Horse Creek	T25N, R53E, SW¼ Section 33	11/21/75			0.3	1330	
MONT-DEQ	5288NO01	47.81528	-104.86944	East Redwater Creek, North Fork	D/S Richland County Rd 317 Crossing	06/01/76				4469	
MONT-DEQ	5288NO01	47.81528	-104.86944	East Redwater Creek, North Fork	D/S Richland County Rd 317 Crossing	06/15/76	1	3629		4735	2025
USGS	5385EA01	47.89810	-105.20690	East Redwater Creek	320 m U/S from the mouth	06/23/82	1			4780	
USGS	5385EA01	47.89810	-105.20690	East Redwater Creek	320 m U/S from the mouth	10/19/82	0.14			3680	
MONT-DEQ	5385EA01	47.89810	-105.20690	East Redwater Creek	320 m U/S from the mouth	06/17/08	0.39	4590		6217	2600
MONT-DEQ	5385EA01	47.89810	-105.20690	East Redwater Creek	320 m U/S from the mouth	08/28/08	0	4760		6906	3200
MONT-DEQ	G020001	47.71470	-104.87030	East Redwater Creek	D/S Richland County Rd 317 Crossing	06/15/76				8210	
MONT-DEQ	G020002	47.71472	-104.87028	East Redwater Creek	D/S Richland County Rd 317 Crossing	06/01/76				8210	
MONT-DEQ	G020007	48.05330	-105.21500	East Redwater Creek	At Nickwall Road crossing	06/03/03				4200	
MONT-DEQ	G020010	47.89810	-105.20690	East Redwater Creek	At mouth	08/23/95			97.014		
MONT-DEQ	M31NLSNC01	47.44600	-106.02330	Nelson Creek	900 m D/S South Fork confluence	06/17/08	0	6150		7720	
MONT-DEQ	M31NLSNC02	47.51810	-106.11760	Nelson Creek	D/S of Coal Creek confluence	06/17/08	0.24	4040		5630	

**Table 1.4 Surface Water Salinity – Listed Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	SAR	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
MONT-DEQ	M48HRSEC02	47.45680	-105.68750	Horse Creek	0.75 mile D/S Denwoody Creek Confluence	06/04/03				7700	
MONT-DEQ	M48RDWEC01	47.90020	-105.17230	East Redwater Creek	At mouth	06/19/03	5	4590			1960
MONT-DEQ	M48RDWEC02	47.86610	-105.06610	East Redwater Creek	At County Road 308 crossing	06/19/03	5	3400			3610
MONT-DEQ	M48RDWEC03	47.83168	-104.99729	East Redwater Creek	Below confluence of North Fork, E. Redwater Creek	06/19/03	0.25	4540			2680
MONT-DEQ	M48RDWEC03	47.83168	-104.99729	East Redwater Creek	At confluence with North Fork	06/17/08	0.11	7230		9280	3900
MONT-DEQ	M48RDWEC04	47.75800	-104.92280	East Redwater Creek	T23N, R53E, NE¼ Section 16	06/19/03	0.5	1690			905
MONT-DEQ	M48RDWEC05	47.73398	-104.90907	East Redwater Creek	T23N, R53E, SW¼ Section 22	06/17/08	0.03	10500		12600	6600
MONT-DEQ	M48RWENF01	47.83020	-104.99550	East Redwater Creek, North Fork	At confluence with East Redwater Creek	06/19/03	0.25	1450			1690
MONT-DEQ	M48RWENF01	47.83020	-104.99550	East Redwater Creek, North Fork	At confluence with East Redwater Creek	06/17/08	0.03	7450		9201	4700
MONT-DEQ	MCNHORC-01	47.49480	-105.88820	Horse Creek	near headwaters - aka HORCK-01	07/11/03				2140	
MONT-DEQ	MCNHORC-01	47.49480	-105.88820	Horse Creek	near headwaters - aka HORCK-01	07/11/03		1090		2140	
MONT-DEQ	MCNHORC-02	47.48280	-105.77130	Horse Creek	Moos Farm above private on-stream reservoir	07/11/03				6800	
MONT-DEQ	MCNHORC-02	47.48280	-105.77130	Horse Creek	Moos Farm above private on-stream reservoir	07/11/03		4560		6800	
MONT-DEQ	MCNHORC-02	47.48280	-105.77130	Horse Creek	Moos Farm above private on-stream reservoir	07/11/03		4750			
MONT-DEQ	MCNHORC-02	47.48280	-105.77130	Horse Creek	Moos Farm above private on-stream reservoir	07/11/03					
MONT-DEQ	MCNHORC-03	47.47080	-105.73190	Horse Creek	HWY 252 crossing	07/11/03				6370	
MONT-DEQ	MCNHORC-03	47.47080	-105.73190	Horse Creek	HWY 252 crossing	07/11/03				6370	
MONT-DEQ	MCNHORC-03	47.47080	-105.73190	Horse Creek	HWY 252 crossing	06/07/05		581			
MONT-DEQ	MCNHORC-03	47.47080	-105.73190	Horse Creek	HWY 252 crossing	06/07/05				600	
MONT-DEQ	MCNHORC-03	47.47080	-105.73190	Horse Creek	HWY 252 crossing	06/17/08	0.15	5240		6160	
MONT-DEQ	MCNHORC-03	47.47080	-105.73190	Horse Creek	HWY 252 crossing	08/27/08	0	7310		8988	
MONT-DEQ	MCNHORC-04	47.42490	-105.62330	Horse Creek	At Zahn access crossing	07/11/03				9170	
MONT-DEQ	MCNHORC-04	47.42490	-105.62330	Horse Creek	At Zahn access crossing	07/11/03				9170	
MONT-DEQ	MCNHORC-04	47.42490	-105.62330	Horse Creek	At Zahn access crossing	07/11/03		7770			
MONT-DEQ	MCNHORC-04	47.42490	-105.62330	Horse Creek	At Zahn access crossing	06/18/08	0.12	8770		9980	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	06/04/03				7700	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	07/11/03				6920	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	07/11/03				6920	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	07/11/03		5500			
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/06/03				8740	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/06/03				8740	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/06/03		7780			
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/13/03		8380		9300	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/13/03		8380		9300	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/20/03		9530		10400	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/20/03				10400	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/27/03		10900		11600	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/27/03				11600	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	05/05/04				5490	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	05/13/04				5790	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	05/20/04				5880	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	05/27/04				6130	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/05/04				4690	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/16/04				9900	
MONT-DEQ	MCNHORC-05	47.42380	-105.57880	Horse Creek	U/S of Highway 13 crossing	08/23/04				10400	

**Table 1.5 Surface Water Salinity – Unlisted Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
MONT-DEQ	6131120	47.40573	-106.17419	Timber Creek	At Highway 24 crossing	06/17/08	0.45			6280	2700
MONT-DEQ	6131120	47.40573	-106.17419	Timber Creek	At Highway 24 crossing	08/28/08	0			11044	4600
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	10/14/75	125			720	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	11/21/75	2.6		21	2600	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	12/11/75	2.6		12	1030	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	01/29/76	87		7	650	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/03/76	1.9		8	1060	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/18/76	285		3	257	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	04/28/76	2.8		13	1260	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	05/27/76	1.9		23	2420	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/13/76	1170		3	435	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	07/21/76	2.1		11	1400	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	08/20/76	1.6		12	1510	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	09/22/76	1.8		25	2600	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	10/21/76	1.8		22	2530	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	11/18/76	2.5		24	2900	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	12/22/76	1		21	2800	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	01/18/77	0.02		10	1590	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	02/10/77	0.5		10	1640	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/15/77	14		11	1060	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	04/07/77	2.5		15	1820	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	05/20/77	1.7		27	2800	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/16/77	39		6	640	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	07/12/77	2.1		31	2850	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	08/18/77	0.81		43	3200	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	09/14/77	1.2		15	1040	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	10/21/77	1.5		21	2330	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	11/09/77	2.4		23	2680	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	12/13/77	0.72		25	3200	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	01/26/78	0.1		11	2290	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/21/78	1630			180	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	04/28/78	3		13	1850	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	05/12/78	7		11	1180	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/05/78	11		10	1600	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	07/25/78	2.1		16	2050	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	08/23/78	1.6		22	2430	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	09/13/78	217			616	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	10/23/78	2.9		17	2110	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	11/16/78	5.1		20	2750	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	12/14/78	1.1		20	2800	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	01/09/79	0.2		11	2320	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/30/79	55		4	590	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	04/10/79	794		2	320	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	04/18/79	273				
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	05/14/79	8		12	3000	

**Table 1.5 Surface Water Salinity – Unlisted Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/06/79	3.6		16	2460	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	07/12/79	2		20	2620	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	08/13/79	1.7		23	2650	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	09/13/79	2		24	2680	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	10/21/82	1.9			1670	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	12/02/82	1.6			2910	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	01/12/83	41			610	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	02/24/83	42			400	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/10/83	3.9			1620	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	04/11/83	2.2			2140	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/24/83	1.1			1750	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	08/31/83	0.75			3310	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	10/06/83	1.6			1080	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	11/28/83	1.5			2840	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	01/29/84	144			182	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/06/84	2.3			1920	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	04/05/84	2.8			965	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	05/16/84	1.1			2240	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/14/84	600			465	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/15/84	78			720	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/18/84	19			628	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/21/84	436			468	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/22/84	108			640	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/27/84	3.9			1100	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	07/13/84	1.2			1180	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	08/02/84	0.92			2220	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	09/12/84	1.2			3000	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	10/17/84	0.99			2760	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	12/07/84	0.81			3360	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	01/16/85	0.72			2720	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	02/25/85	64			290	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	02/26/85	35			262	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/01/85	20			445	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/06/85	4.8			880	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/08/85	7			945	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/11/85	18			754	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	03/18/85	5.5			1100	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	04/02/85	153			420	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	04/08/85	5.3			800	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	05/23/85	1.2			2670	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	08/02/85	0.98			3350	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	08/20/85	1.1			2170	
USGS	6175540	47.99891	-105.86723	Prairie Elk Creek	D/S of Highway 528 crossing	06/18/08	1.95			1178	
USGS	6175580	48.01446	-105.71000	Sand Creek	U/S of Highway 528 crossing	10/29/75	0.62		15	1800	
USGS	6175580	48.01446	-105.71000	Sand Creek	U/S of Highway 528 crossing	03/20/76	52		3	360	
USGS	6175580	48.01446	-105.71000	Sand Creek	U/S of Highway 528 crossing	06/13/76	165		5	655	

**Table 1.5 Surface Water Salinity – Unlisted Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6175580	48.01446	-105.71000	Sand Creek	U/S of Highway 528 crossing	09/22/76	0.2		27	3040	
USGS	6175580	48.01446	-105.71000	Sand Creek	U/S of Highway 528 crossing	10/21/76	0.25		24	2960	
USGS	6175580	48.01446	-105.71000	Sand Creek	U/S of Highway 528 crossing	03/30/77	19		12	942	
USGS	6175580	48.01446	-105.71000	Sand Creek	U/S of Highway 528 crossing	06/16/77	7.1		20	1900	
USGS	6175580	48.01446	-105.71000	Sand Creek	U/S of Highway 528 crossing	07/12/77	0.2		32	3230	
USGS	6175580	48.01446	-105.71000	Sand Creek	U/S of Highway 528 crossing	09/14/77	0.2		16	1290	
USGS	6177400	47.35000	-105.58333	Mccune Creek	Mccune Creek near Circle MT	06/20/84	0.06			638	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/21/74	0.03		15	3900	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/18/74	0.11		14	3820	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/16/74	0.07		14	4130	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/20/75	0.07		12	4430	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/24/75	0.05		12	4800	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/18/75	0.26		10	3100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/14/75	22		6	2520	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/21/75	3.9		7	3230	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/18/75	0.91		8	3400	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/22/75	2.6		8	3250	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/19/75	0.09		11	4400	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/25/75	0.14		13	4200	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/29/75	0.18		11	3500	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/20/75	0.24		11	3750	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/10/75	0.29		10	3800	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/27/76	0.96		8	3050	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/25/76	12		4	1800	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/19/76	7.2		6	2060	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/29/76	2.2		8	3330	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/26/76	2.4		10	3800	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/14/76	16		6	2320	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/20/76	0.32		7	2940	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/18/76	0.83		9	3200	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/22/76	0.14		11	3710	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/20/76	0.09		12	3480	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/17/76	0.07		11	3850	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/21/76	0.11		11	4100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/18/77	0.05		11	3800	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/17/77	0.11		10	2980	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/08/77	3.3		8	3320	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/22/77	0.96		9	3610	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/19/77	0.67		10	3600	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/14/77	0.11		12	3850	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/13/77	0.07		9	2350	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/12/77	0.09		14	3180	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/19/77	0.09		13	3350	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/07/77	0.11		13	3410	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/13/77	0.1		12	3900	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/12/78	0.1		11	3900	

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Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/22/78	1060		0.9	336	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/25/78	7.1		6	3000	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/09/78	15		8	3680	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/08/78	21		10	3290	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/12/78	30		4	1980	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/09/78	2.6		8	3410	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/14/78	3.6				
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/11/78	4.2		9	3620	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/13/78	3.6		9	4110	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/13/78	2.6		10	4990	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/08/79	0.3		10	4410	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/20/79	0.6		11	5700	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/19/79	143		2	820	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/11/79	489		3	1290	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/09/79	50		7	4000	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/05/79	13		7	4500	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/10/79	2.4		8	4600	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/21/79	0.89		11	4680	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/12/79	0.18		12	4620	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/17/79	0.28		12	4220	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/06/79	0.96		11	5000	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/04/79	1.8		10	5600	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/08/80	0.35		11	5800	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/19/80	0.91		12	5780	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/26/80	5.5		7	3150	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/22/80	1.7		7	3730	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/13/80	0.35		10	4400	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/10/80	0.1		12	4420	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/28/80	0.01		14	5000	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/27/80	0.02		15	4600	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/17/80	0.01		15	4650	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/21/80	0.02		17	4330	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/19/80	0.08		16	4300	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/17/80	0.28		11	4820	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/20/81	0.58		13	5190	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/18/81	1		11	4390	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/10/81	0.61		9	4100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/28/81	0.24		11	4760	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/21/81	0.13		12	4830	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/29/81	0.08		17	4680	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/30/81	0.08		16	5820	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/03/81	0.01		17	6200	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/04/82	6.2		6	1860	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/22/82	3		8	3580	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/26/82	6.2		9	4100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/22/82	3		9	4600	

**Table 1.5 Surface Water Salinity – Unlisted Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/24/82	0.05		14	5030	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/21/82	0.03		16	2420	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/19/82	0.06			4250	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/29/82	0.31			4780	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/11/83	11			2120	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/23/83	17			890	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/12/83	2			3620	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/24/83	2.7			4100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/28/83	0.04			4100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/22/83	0.01			4750	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/27/83	0.01			5200	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/17/83	0.04			4790	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/28/83	0.06			4000	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/11/84	0.1			3620	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/01/84	0.01			3600	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/05/84	0.62			4210	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/15/84	0.08			4100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/20/84	60			982	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/27/84	14			2120	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/19/84	0.04			4820	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/25/84	0.1			3940	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/12/84	0.11			4200	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/27/85	5.3			2030	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/13/85	1.6			2750	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/24/85	0.14			4200	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/21/85	0.02			4950	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/26/85	0.02			5150	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/13/85	0.02			4250	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/24/86	11			2890	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/01/86	4.3			4300	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/04/86	1.9			5000	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/04/86	5.8			2730	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/24/86	9.3			3900	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/30/86	8.2			4350	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/19/87	12			4050	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/03/87	27			4250	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/28/87	36			5800	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/20/87	0.33			5150	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/09/87	1.7			5250	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/06/88	3			3850	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/25/88	0.44			3600	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/13/88	0.12			4800	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/21/88	0.1			6100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/25/88	0.06			5200	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/07/88	0.1			4650	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/25/89	0.06			4100	



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Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/09/89	8.1			610	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/23/89	21			2350	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/05/89	7.9			2520	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/19/89	0.21			5000	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/31/89	111			2400	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/18/89	0.48			2720	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/24/89	0.17			3900	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/04/89	0.53			3930	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/23/90	1.2			4100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/06/90	6.1			2580	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/03/90	2.2			2630	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/24/90	4.5			3080	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/27/90	0.07			3680	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/06/90	0.02			6400	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/04/91	0.16			4370	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/21/91	0.58			4830	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/25/91	51			3850	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/26/91	178			1850	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/06/91	0.22			4050	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/19/91	0.14			4370	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/21/91	0.17			4220	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/20/91	0.24			4100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/09/92	0.44			5150	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/03/92	0.61			2780	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/09/92	0.52			4430	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/20/92	19			4580	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/12/92	0.84			5000	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/24/92	0.06			5100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/29/92	0.38			4350	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/06/92	0.24			4150	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/02/92	0.13			4050	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/02/93	0.06			4890	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/05/93	164			575	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/07/93	537			327	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/10/93	54			760	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/16/93	5.5			1450	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/23/93	5.5			2090	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/31/93	2.1			4510	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/06/93	0.63			4760	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/01/93	2			4390	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/01/94	0.79			4440	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/25/94	20			2400	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/23/94	4.9			5710	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/22/94	1.7			5600	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/03/94	0.15			5160	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/16/94	1.3			4610	

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USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/20/94	1.5			4860	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/02/95	24			3880	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/14/95	37			2050	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/26/95	0.03			4910	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	09/14/95	0.02			5070	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/01/95	0.04			4100	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/12/96	0.92			5890	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/12/96	231			281	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/12/96	2160			402	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/15/96	132			684	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/19/96	34			1380	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/02/96	8.7			2820	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/25/96	6.5			3660	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/17/96	2			1190	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/23/96	0.09			4410	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/29/96	0.02			4950	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/25/96	0.05			4350	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/19/96	0.25			5180	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/07/97	7.3			6320	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/20/97	29			2260	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/24/97	0.19			4370	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/21/97	0.05			5370	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/02/97	0.03			5040	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/25/97	0.01			4620	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/06/98	0.57			6120	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/04/98	1.4			4910	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/27/98	11			4090	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/18/98	0.01			5580	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/17/98	0.09			4280	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/13/99	0.4			5560	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/23/99	13			2070	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/12/99	6.2			2370	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/28/99	2.8			4620	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/24/99	0.31			4790	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/03/99	0.02			4770	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/12/99	0.2			4590	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/21/00	0.15			1300	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/02/00	1.2			4710	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/29/00	0.66			4640	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/01/00	0.17			5320	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/07/00	1.2			4000	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/08/01	0.11			4280	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	02/27/01	0.06			4670	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/06/01	38			1440	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/19/01	5.7			1650	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/23/01	2.2			1990	

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USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/24/01	0.46			3590	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	06/14/01	1.7			4560	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	10/01/01	1			4610	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	11/08/01	0.1			4450	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	12/11/01	0.09			4470	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	01/30/02	0.14			5130	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	03/28/02	26			3580	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/08/02	3.2			2680	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	04/24/02	1.1			3300	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	05/20/02	0.44			4290	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	07/01/02	0.17			5120	
USGS	6177500	47.41418	-105.57555	Redwater River	Redwater River at Circle MT	08/16/02	0.07			5680	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	10/25/79	3.3		12	3600	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	05/25/82	17		11	3120	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	06/22/82	10		11	3700	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	08/24/82	1.1		15	4020	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	09/20/82	1.2		15	3850	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	10/19/82	2.7			3380	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	11/30/82	2.6			4000	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	01/11/83	21			1440	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	02/23/83	70			750	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	03/09/83	27			1840	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	04/12/83	5.8			2580	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	05/24/83	9.4			3400	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	06/27/83	1.2			3680	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	08/22/83	0.06			4140	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	09/26/83	0.03			4400	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	10/17/83	0.06			3680	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	11/28/83	1.6			3920	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	02/01/84	0.36			3600	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	02/29/84	2.2			3000	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	04/04/84	3.5			3220	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	05/16/84	3.3			3620	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	06/28/84	31			1720	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	07/20/84	2.6			3400	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	08/08/84	0.08			3420	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	08/30/84	0.01			4640	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	09/20/84	0.06			4650	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	10/26/84	2.2			3400	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	12/12/84	1.7			4180	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	02/27/85	20			1970	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	03/08/85	6.5			2780	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	03/12/85	7.5			2280	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	03/21/85	9.4			1910	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	04/30/85	3.3			3400	
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	05/24/85	1.3			3820	

**Table 1.5 Surface Water Salinity – Unlisted Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6177650	47.63085	-105.32860	Redwater River	Redwater River near Richey MT	09/26/85	0.12			4400	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	10/15/75	6.8		12	3100	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	11/21/75	5.1		13	3300	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	12/30/75	3.4		14	3600	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	01/28/76	3.2		13	4250	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	02/26/76	164		5	1020	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/22/76	163		4	990	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/30/76	20		11	3120	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/26/76	11		11	2940	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	06/13/76	982		4	812	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	07/20/76	28		8	2130	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	08/19/76	5.9		13	2750	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/21/76	3.1		12	2780	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	10/20/76	3.3		12	2900	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	11/18/76	5.1		12	3300	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	12/21/76	4		12	3550	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	01/17/77	0.3		12	3290	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	02/09/77	1		12	3120	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/07/77	18		11	2920	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/21/77	9.9		12	3260	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/19/77	24		13	3150	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	06/16/77	15		15	3290	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	07/13/77	0.94		16	3850	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/13/77	0.6		17	4000	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	10/20/77	1.4		12	2880	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	11/07/77	2		13	3050	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	12/12/77	0.66		14	4050	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/22/78	2830		2	430	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/28/78	32		9	2580	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/10/78	38		10	2720	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	06/09/78	92		8	3310	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	07/13/78	175		5	1650	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	08/10/78	17		9	2620	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/15/78	19		10	2450	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	10/23/78	16		10	2730	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	11/14/78	15		11	3300	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	12/13/78	7.9		14	4380	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	01/10/79	2.3		14	4390	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	02/21/79	1.6		12	4000	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/28/79	400		4	1250	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/10/79	4560		2	630	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/10/79	223		8	3380	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	06/06/79	54			3700	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	07/11/79	18		10	3400	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	08/01/79	12		11	3500	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/12/79	5.8		13	3480	

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Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	10/17/79	8		10	2870	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	11/07/79	7.8		11	3220	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	12/05/79	9.9		13	3820	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	01/09/80	1.8		14	4290	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	02/20/80	1.4		12	4100	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/27/80	33		9	2450	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/23/80	15		10	3190	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/19/80	7		15	4950	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	06/09/80	2.4		13	3690	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	07/28/80	0.03		17	4350	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	08/27/80	1		12	3400	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/17/80	1.6		12	3500	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	10/21/80	4		13	3160	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	11/18/80	6.1		13	3400	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	12/18/80	4			3360	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	01/19/81	4.1		14	3720	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	02/17/81	42		7	1360	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/30/81	9.4		11	2910	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/28/81	3.9		13	3420	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/21/81	2.2		14	3580	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	06/29/81	4.6		18	4220	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	07/30/81	2.2		14	3300	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	08/13/81	23		7	1460	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/24/81	0.73		14	3290	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	11/02/81	2.8		13	3080	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	12/03/81	3		12	3500	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	01/25/82	0.15		13	4440	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/03/82	56		4	909	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/21/82	37		9	2660	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/24/82	44		11	3080	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	06/23/82	17		13	3850	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	08/24/82	2.1		15	3620	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/20/82	1.8		15	3400	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	10/19/82	5.6			3030	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	11/30/82	4.9			4300	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	01/11/83	14			2920	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/09/83	60			1660	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/11/83	27			2620	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/24/83	16			3800	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	06/27/83	2.9			3620	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/26/83	0.02			4250	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	10/17/83	0.22			5000	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	11/28/83	2.1			3290	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	01/09/84	0.77			4180	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	02/01/84	5.1			4100	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	02/29/84	6.4			2780	

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USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/04/84	9.4			3290	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/14/84	4			3420	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	06/28/84	122			1220	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	08/06/84	2.2			2750	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/20/84	0.4			3900	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	10/26/84	1.4			3150	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	12/15/84	1.2			3730	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	02/27/85	85			1240	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/01/85	56			1370	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/08/85	14			2320	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/12/85	20			2450	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	03/21/85	20			1880	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	04/08/85	32			2720	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	05/23/85	1.5			3700	
USGS	6177825	47.90196	-105.21554	Redwater River	Redwater River near Vida MT	09/27/85	0.08			5000	
USGS	470511105542301	47.08639	-105.90639	Redwater River	T15N R46E S4 NW	10/21/77			0.5	1320	
USGS	470512105473701	47.08667	-105.79361	Lisk Creek	T15N R47E S5 NE	09/19/80			0.9	2820	
USGS	470717105563601	47.12139	-105.94333	Redwater River	T16N R46E S30 NE	10/12/77			13	3360	
USGS	471035105484701	47.17639	-105.81306	West Duck Creek	T16N R47E S6 NE	09/20/80			2	2750	
USGS	471038105514601	47.17722	-105.86278	Lisk Creek	T16N R46E S2 NE	10/08/77			34	2780	
USGS	471114105525001	47.18722	-105.88056	Redwater River	T17N R46E S32 SE	09/17/80			18	3180	
USGS	471229105554300	47.20806	-105.92861	Redwater River	T17N R45E S25 NW	07/29/75			0.3	1270	
USGS	471324105570900	47.22333	-105.95250	Trail Creek	T17N R45E S23 NW	07/22/75			18	3700	
USGS	471447105562800	47.24639	-105.94111	Trail Creek	T17N R45E S11 NE	07/28/75			2	2150	
USGS	471448105485201	47.24667	-105.81444	Duck Creek	T17N R46E S11 NE	09/17/80			24	3650	
USGS	471521105521101	47.25583	-105.86972	Redwater Trib	T17N R46E S4 SW	09/17/80			5	2340	
USGS	471521105551200	47.25583	-105.92000	Trail Creek	T17N R45E S1 SE	07/28/75			0.1	897	
USGS	471548105435801	47.26320	-105.73300	Ash Creek	T17N R47E S4 NE	09/16/80			1	960	
USGS	471626105580001	47.27389	-105.96667	Trail Creek	T18N R45E S34 SE	07/18/75			28	3080	
USGS	471631105575700	47.27528	-105.96583	Dirty Creek	T18N R45 S34 NE	07/18/75			34	3310	
USGS	471648105493300	47.28000	-105.82583	Redwater Trib	T18N R46E S35 NW	08/04/75			24	4640	
USGS	471708105333001	47.28556	-105.55833	Dry Ash Creek	T18N R48E S26 SE	09/16/80			2	4050	
USGS	471710105572900	47.28611	-105.95806	Dirty Creek	T18N R45E S27 SE	07/18/75			0.6	1240	
USGS	471714105281801	47.28722	-105.47167	Mccune Creek Trib	T18N R49E S27 SE	09/18/80			34	1930	
USGS	471908105342801	47.31889	-105.57444	McCune Creek	T18N R48E S14 SW	09/16/80			8	2750	
USGS	471912105214401	47.32000	-105.36222	Berry Creek	T18N R50E S16 SW	10/29/77			7	1800	
USGS	471920105424001	47.32222	-105.71111	Stoney Butte Creek	Stoney Butte Creek near Brockway MT	04/01/77	0.28		10	3020	
USGS	472010105421601	47.33611	-105.70444	Stony Butte Creek	T18N R47E S10 NE	09/16/80			53	2300	
USGS	472020105163501	47.33889	-105.27639	Sioux Creek	T18N R51E S7 NW	10/27/77			1	3110	
USGS	472120105524100	47.35556	-105.87806	Cotter Creek	T19N R46E S32 SE	07/23/75			0.1	621	
USGS	472120105532900	47.35556	-105.89139	Cotter Creek	T19N R46E S32 SW	07/23/75			2	1010	
USGS	472204105270500	47.36778	-105.45139	Buffalo Springs Creek	T19N R49E S34 NE	10/29/75			4	1760	
USGS	472225105501900	47.37361	-105.83861	Stony Butte Creek	T19N R46E S27 SE	07/23/75			0.3	1000	
USGS	472233105530000	47.37583	-105.88333	Cotter Creek	T19N R46E S29 SW	07/23/75			0.5	857	
USGS	472259105513500	47.38306	-105.85972	Cotter Creek	T19N R46E S28 NE	07/23/75			3	1820	
USGS	472302105275901	47.38389	-105.46639	Buffalo Springs Creek	T19N R49E S27 NW	07/27/82			2	1460	

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USGS	472330105445102	47.39167	-105.74750	Antelope Creek	T19N R47E S20 NE	07/29/75			10	2370	
USGS	472339105283901	47.39417	-105.47750	Gyp Creek	T19N R49E S21 NE	07/27/82			54	2150	
USGS	472351105150101	47.39750	-105.25028	Corral Creek	T19N R51E S20 NW	10/24/77			0.9	1920	
USGS	472356105395200	47.39889	-105.66444	Redwater Trib	T19N R47E S13 SE	07/28/75			2	2060	
USGS	472409105505700	47.40250	-105.84917	Stony Butte Creek	T19N R46E S15 SW	07/22/75			130	3920	
USGS	472414105522200	47.40389	-105.87278	Stony Butte Creek	T19N R46E S17 SE	07/22/75			6	2610	
USGS	472414105522500	47.40389	-105.87361	Stony Butte Creek	T19N R46E S17 SE	07/22/75			0.7	706	
USGS	472423105225501	47.40639	-105.38194	Sioux Creek	T19N R50E S17 NW	10/24/77			2	1680	
USGS	472444105400900	47.41222	-105.66917	Redwater Trib	T19N R47E S13 NE	07/28/75			6	4310	
USGS	472448105451000	47.41305	-105.74976	Antelope Creek	T19N R47E S8 SE	07/29/75			3	2000	
USGS	472448105454900	47.41333	-105.76361	Antelope Creek	T19N R47E S8 SW	07/29/75			1	1980	
USGS	472448105503800	47.41333	-105.84389	Stony Butte Creek	T19N R46E S10 SW	07/20/75			20	3260	
USGS	472448105530300	47.41333	-105.88417	Stony Butte Creek	T19N R46E S8 SW	07/22/75			2	991	
USGS	472450105354501	47.41389	-105.59583	Redwater River	T19N R48E S10 SW	07/29/82			86	1820	
USGS	472453105350301	47.41472	-105.88417	Redwater Trib	T19N R48E S10 SE	10/03/75			95	1550	
USGS	472453105530300	47.41472	-105.88417	Stony Butte Creek	T19N R46E S8 SW	07/22/75			35	2670	
USGS	472505105171001	47.41806	-105.28611	Corral Creek	T19N R50E S12 SE	10/22/77			7	2100	
USGS	472506105424300	47.41833	-105.71194	Redwater Trib	T19N R47E S10 SE	07/28/75			10	4160	
USGS	472510105424300	47.41944	-105.71194	Redwater Trib	T19N R47E S10 SE	07/28/75			39	3660	
USGS	472515105423600	47.42083	-105.71000	Redwater Trib	T19N R47E S10 NE	07/28/75			2	3200	
USGS	472515105524100	47.42083	-105.87806	Stony Butte Creek	T19N R46E S8 NE	07/22/75			0.3	1020	
USGS	472537105324300	47.42694	-105.54528	Cottonwood Creek	T19N R48E S12 NW	11/18/75			4	1230	
USGS	472555105341700	47.43194	-105.57139	Redwater Trib	T19N R48E S2 SW	11/18/75			32	2320	
USGS	472634105270500	47.44278	-105.45139	Redwater Trib	T20N R49E S34 SE	11/18/75			53	5070	
USGS	472653105303501	47.44806	-105.50972	Gyp Creek	T20N R49E S32 SW	07/29/82			21	7750	
USGS	472704105304201	47.45111	-105.51167	Redwater River	T20N R49E S32 NW	07/30/82			60	2300	
USGS	472741105305101	47.46139	-105.51417	Redwater River	T20N R49E S30 SE	07/29/82			28	2750	
USGS	472747105254801	47.46306	-105.43000	Cottonwood Creek	T20N R49E S26 SE	07/27/82			22	11500	
USGS	472806105265500	47.46833	-105.44861	Redwater Trib	T20N R49E S27 NE	11/21/75			2	1890	
USGS	472810105354300	47.46944	-105.59528	Redwater Trib	T20N R48E S22 SW	09/27/75			10	3090	
USGS	472853105252801	47.48139	-105.42444	Cottonwood Creek	at Highway 200	06/22/82	0.02			1290	
USGS	472905105315001	47.48472	-105.53056	Lost Creek	T20N R49E S18 SW	05/06/76			26	3400	
USGS	472905105315001	47.48472	-105.53056	Lost Creek	T20N R49E S18 SW	08/08/79			27	2290	
USGS	472907105315501	47.48528	-105.53194	Lost Creek	Lost Cr at Highway 13 North of Circle MT	06/22/82	0.06			7300	
USGS	473035105390800	47.50972	-105.65222	Lost Creek	T20N R48E S7 NW	09/12/75			4	1340	
USGS	473038105022001	47.51056	-105.03889	Sullivan Creek	T20N R52E S12 NW	10/17/77			1	3350	
USGS	473052105253901	47.51444	-105.42750	Redwater River	Redwater River near Circle MT	06/22/82	7.7		10	3750	
USGS	473052105253901	47.51444	-105.42750	Redwater River	Redwater River near Circle MT	08/24/82	0.41		16	4500	
USGS	473052105253901	47.51444	-105.42750	Redwater River	Redwater River near Circle MT	10/19/82	1.1			3800	
USGS	473052105285701	47.51444	-105.48250	Buffalo Creek, South Fork	T20N R49E S4 SW	07/28/82			3	1620	
USGS	473135105320701	47.52639	-105.53528	Buffalo Creek, South Fork	T20N R48E S1 NE	07/28/82			50	2680	
USGS	473343105280200	47.56194	-105.46722	Spring Creek	T21N R49E S20 SW	09/18/75			21	4180	
USGS	473447105084800	47.57972	-105.14667	Sullivan Creek Trib	T21N R51E S14 SW	09/24/75			7	3230	
USGS	473450105040001	47.58056	-105.06667	Pasture Creek	T21N R52E S17 SE	09/08/76			3	865	

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USGS	473542104562701	47.58060	-105.06667	Lisk Creek, South Fork	T21N R53E S8 NE	05/04/76			0.7	2630	
USGS	473556105303800	47.59500	-104.94083	Duck Creek	T21N R48E S12 NW	09/19/75			57	2980	
USGS	473557105534100	47.59889	-105.51056	Middle Fork McGuire Creek	T21N R45E S12 NW	09/10/65			58	16500	
USGS	473641105205001	47.59920	-105.89470	Duck Creek	Duck Cr at Road Crossing nr Mouth nr Circle MT	06/22/82	0.11			3900	
USGS	473641105205001	47.61139	-105.34722	Duck Creek	Duck Cr at Road Crossing nr Mouth nr Circle MT	10/19/82	0.01			6250	
USGS	473719105491400	47.62190	-105.82060	East Fork Prarie Elk Creek	T22N R46E S33 SE	09/05/75			59	3460	
USGS	473743105502900	47.62860	-105.84140	East Fork Prarie Elk Creek	T22N R46E S32 NE	09/10/65			51	18700	
USGS	473750105172201	47.63056	-105.28944	Sullivan Creek	Sullivan Creek near Mouth near Richey MT	06/22/82	0.04			2950	
USGS	473750105172201	47.63139	-105.09194	Sullivan Creek	Sullivan Creek near Mouth near Richey MT	10/19/82	0.01			3940	
USGS	473753105053100	47.63140	-105.09194	Pasture Creek, East Fork	T22N R52E S30 SE	09/30/75			0.6	1140	
USGS	473757105200900	47.63250	-105.33583	Redwater River	T22N R50E S29 SW	09/17/75			6	1650	
USGS	473806104594500	47.63500	-104.99583	Lisk Creek, South Fork	T22N R52E S25 SW	10/10/75			39	5310	
USGS	473816105200001	47.63778	-105.33333	Cow Creek	Cow Creek at Mouth near Richey MT	06/22/82	0.51			4900	
USGS	473816105200001	47.63778	-105.33333	Cow Creek	Cow Creek at Mouth near Richey MT	10/19/82	0.15			4850	
USGS	473822105442300	47.63944	-105.73972	Cow Creek	T22N R47E S30 NW (S25)	02/02/65			64	4000	
USGS	473829105032401	47.64139	-105.05667	Lisk Creek, South Fork	T22N R52E S28 NW	10/03/75			84	1650	
USGS	473845105415302	47.64583	-105.69806	Cow Creek	T22N R47E S21 SW	08/13/75			0.5	1500	
USGS	473912104542700	47.65333	-104.90750	Kuester Reservoir trib	T22N R53E S22 NW	10/08/75			9	3700	
USGS	474058105085600	47.65750	-105.79310	Sullivan Creek Trib	T22N R51E S10 NE	09/24/75			60	2600	
USGS	474059105265800	47.68306	-105.44944	Cow Creek	T22N R49E S8 NE	09/19/75			4	1570	
USGS	474150105062200	47.69722	-105.10611	Sullivan Creek Trib	T22N R51E S1 NE	11/21/75			2	1700	
USGS	474206105362800	47.70167	-105.60778	Cow Creek	T22N R48E S6 NE	09/16/75			0.3	680	
USGS	474226105150301	47.70720	-105.25083	Pasture Creek	Pasture Creek near Mouth near Richey MT	06/23/82	0.48			4820	
USGS	474226105150301	47.70722	-105.25083	Pasture Creek	Pasture Creek near Mouth near Richey MT	10/19/82	0.25			3800	
USGS	474256105150401	47.71556	-105.25111	Redwater River	Redwater River Northwest of Richey MT	06/23/82	14		11	3350	
USGS	474256105150401	47.71556	-105.25111	Redwater River	Redwater River Northwest of Richey MT	08/24/82	1.2		13	3400	
USGS	474256105150401	47.71556	-105.25111	Redwater River	Redwater River Northwest of Richey MT	10/19/82	4.9			3200	
USGS	474312105425601	47.72000	-105.71556	Cow Creek	T23N R47E S29 SE	09/25/80			3	2200	
USGS	474335105225001	47.72639	-105.38056	Hay Creek	T23N R49E S25 NW	09/26/78			64	3500	
USGS	474355104024001	47.73194	-104.04444	Redwater Trib	T23N R52E S28 NE	08/30/78			68	3250	
USGS	474423105015400	47.73972	-105.03167	Lisk Creek, South Fork	T23N R52E S22 NW	10/23/75			2	1340	
USGS	474427105211700	47.74083	-105.35472	Hay Creek	T23N R50E S19 NW	06/16/52				123000	
USGS	474450105235601	47.74722	-105.39889	Hay Creek	T23N R49E S14 SW	09/23/80			0.1	1160	
USGS	474506105161200	47.75167	-105.27000	Gold Gulch	T23N R50E S14 SW	09/25/75			10	2170	



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USGS	474507105161200	47.75194	-105.27000	Gold Gulch	T23N R50E S14 SW	09/25/75			11	2370	
USGS	474520105054500	47.75556	-105.09583	Redwater Trib	T23N R52E S18 NW	11/21/75			46	4090	
USGS	474523105055300	47.75639	-105.09806	Redwater Trib	T23N R52E S18 NW	10/21/75			66	1940	
USGS	474535105531001	47.75970	-105.88610	Prairie Elk Creek Trib	T23N R45E S12 SE	09/27/78			67	5800	
USGS	474540105064500	47.76111	-105.11250	Sullivan Creek Trib	T23N R51E S13 NE	10/21/75			20	2560	
USGS	474625105510701	47.77362	-105.85251	Prairie Elk Creek	near Weldon MT	04/01/77	0.4		15	3950	
USGS	474635105481001	47.77640	-105.80280	Tony Coulee	T23N R46E S03 SW	09/27/78			72	3900	
USGS	474724105104600	47.79000	-105.17944	Sullivan Creek Trib	T23N R51E S4 NE	10/27/75			12	2290	
USGS	474810105464001	47.80280	-105.77780	Garton Coulee	T24N R46E S26 SW	10/07/78			91	2880	
USGS	474812105393501	47.80330	-105.65970	Middle Fork Sand Creek	T24N R47E S35 NW	10/20/85				1870	
USGS	474815105393601	47.80420	-105.66000	Middle Fork Sand Creek	T24N R47E S35 NW	09/28/80			30	4350	
USGS	474918105141001	47.82167	-105.23611	Lisk Creek	Lisk Creek at Mouth near Vida MT	06/22/82	0.02			6350	
USGS	474918105141001	47.82167	-105.23611	Lisk Creek	Lisk Creek at Mouth near Vida MT	10/19/82	0.02			5500	
USGS	474957105145701	47.83250	-105.24917	Redwater River	Redwater River East of Vida MT	06/22/82	16		12	3580	
USGS	474957105145701	47.83250	-105.24917	Redwater River	Redwater River East of Vida MT	08/24/82	1.2		15	3500	
USGS	474957105145701	47.83250	-105.24917	Redwater River	Redwater River East of Vida MT	10/19/82	5.4			3160	
USGS	475006105505201	47.83500	-105.84780	Sadie Coulee	T24N R46E S17 SW	09/29/80			40	3050	
USGS	475016105443700	47.83780	-105.74360	Remuda Creek	T24N R47E S18 SW	11/20/66				73200	
USGS	475117106001601	47.85470	-106.00440	Shade Creek	T24N R44E S12 SE	09/30/80			77	3150	
USGS	475145105532501	47.86250	-105.89030	Prairie Elk Creek Trib	T24N R45E S01 NW	10/05/78			47	1900	
USGS	475226105142301	47.87389	-105.23972	Redwater River	T25N R50E S35 SE	09/02/80			78	2570	
USGS	475324105485401	47.89000	-105.81500	Prairie Elk Creek Trib	T25N R46E S29 SW	09/01/80			65	5500	
USGS	475326105415901	47.89060	-105.69970	West Fork Sand Creek	T25N R47E S30 NE	09/26/80			15	5600	
USGS	475347104593302	47.89639	-104.99250	Duplisse Creek	T25N R52E S27 NW	11/12/75			2	1150	
USGS	475402105165001	47.90056	-105.28056	Redwater Trib	T25N R50E S21 SW	09/23/80			79	2330	
USGS	475425105465501	47.90694	-105.78194	Brown's Coulee	T25N R46E S21 NE	10/07/78			81	3590	
USGS	475519105503601	47.92194	-105.84333	Big Mud Creek	T25N R45E S13 NE	09/27/80			62	3150	
USGS	475525105225001	47.92361	-105.38056	Sheep Creek	T25N R49E S15 NW	10/06/78			72	2990	
USGS	475633105022601	47.94250	-105.04056	Long Grass Creek	T25N R52E S5 SW	09/03/80			4	2800	
USGS	475838105415301	47.97720	-105.69810	Crow Creek	T26N R47E S30 NE	09/26/80			27	2250	
USGS	475848105193501	47.98000	-105.32639	Sheep Creek	Sheep Cr at Road Crossing nr Mouth nr Vida MT	06/23/82	0.15			3410	
USGS	475848105193501	47.98000	-105.32639	Sheep Creek	Sheep Cr at Road Crossing nr Mouth nr Vida MT	10/20/82	0.09			2500	
USGS	480111105182001	48.01972	-105.30556	Redwater River	Redwater River 2 Miles South of Nickwall MT	10/25/79	9.4		10	3000	
USGS	480111105182001	48.01972	-105.30556	Redwater River	Redwater River 2 Miles South of Nickwall MT	06/23/82	25		12	3120	
USGS	480111105182001	48.01972	-105.30556	Redwater River	Redwater River 2 Miles South of Nickwall MT	08/24/82	2.2		14	3200	
USGS	480111105182001	48.01972	-105.30556	Redwater River	Redwater River 2 Miles South of Nickwall MT	10/19/82	7.7			2700	
USGS	480315105125001	48.05417	-105.21389	Redwater River	Redwater River 0.75 Mi at Mouth nr Poplar MT	10/25/79	7.4		12	3100	

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USGS	480315105125001	48.05417	-105.21389	Redwater River	Redwater River 0.75 Mi at Mouth nr Poplar MT	06/23/82	25		12	3310	
USGS	480315105125001	48.05417	-105.21389	Redwater River	Redwater River 0.75 Mi at Mouth nr Poplar MT	08/24/82	2.3		15	3400	
USGS	480315105125001	48.05417	-105.21389	Redwater River	Redwater River 0.75 Mi at Mouth nr Poplar MT	10/20/82	7.4			2890	
MONT-DEQ	2D	47.39604	-105.59789	Redwater River	At Union Bridge	05/25/99		4880	9.98		
21MTHDWQ	5185PA01	47.70800	-105.25140	Pasture Creek	At mouth	08/23/95			149.822		
21MTHDWQ	5480PR01	47.99944	-105.86472	Prairie Elk Creek	100 feet upstream from Highway 528 crossing	08/10/95			95.657		
21MTHDWQ	5481SA01	48.01420	-105.71440	Sand Creek	At mouth	08/21/95			35.779		
MONT-DEQ	G010001	47.69250	-105.49333	Cow Creek	At Highway 13 Bridge, Near Circle, MT.	03/01/76				1130	
21MTHDWQ	G010002	47.69250	-105.49330	Cow Creek	At Highway 13 Bridge, Near Circle, MT.	03/16/76				1190	
21MTHDWQ	G040001	47.79220	-104.86830	Jeffrey Creek		06/15/76				8220	
MONT-DEQ	G040002	47.79222	-104.86833	Jeffrey Creek		06/01/76				8000	
21MTHDWQ	G050001	47.49080	-105.53640	Lost Creek	At Highway 13 Bridge, Near Circle, MT.	03/16/76				2094	
MONT-DEQ	G050002	47.49083	-105.53639	Lost Creek	At Highway 13 Bridge, Near Circle, MT.	03/01/76				2040	
21MTHDWQ	G050003	47.53580	-105.62920	Lost Creek	Noname Reservoir, Near Lost Creek	08/29/75				4600	
MONT-DEQ	G050004	47.53583	-105.62917	Lost Creek	D/S of reservoir T21N, R47E, Sec. 36	08/01/75				4100	
MONT-DEQ	G070001	47.70640	-105.24560	Pasture Creek	At mouth	06/20/03					
21MTHDWQ	G070004	47.70810	-105.25140	Pasture Creek	At mouth	08/23/95			149.822		
MONT-DEQ	G080001	47.22056	-105.86722	Redwater River	At County Road, Near Mouth	10/01/74				8401	
MONT-DEQ	G080004	47.40220	-105.58640	Redwater River	Fairgrounds - RW-1	08/06/03				6090	
MONT-DEQ	G080004	47.40220	-105.58640	Redwater River	Fairgrounds - RW-1	08/13/03		5180		6220	
MONT-DEQ	G080004	47.40220	-105.58640	Redwater River	Fairgrounds - RW-1	08/20/03		5410		6480	
MONT-DEQ	G080004	47.40220	-105.58640	Redwater River	Fairgrounds - RW-1	08/27/03		5640		6650	
MONT-DEQ	G080004	47.40220	-105.58640	Redwater River	Fairgrounds - RW-1						
MONT-DEQ	G080005	47.41360	-105.57300	Redwater River	Cemetary Rd. - RW-2	08/06/03				5870	
MONT-DEQ	G080005	47.41360	-105.57300	Redwater River	Cemetary Rd. - RW-2	08/13/03		4750		5970	
MONT-DEQ	G080005	47.41360	-105.57300	Redwater River	Cemetary Rd. - RW-2	08/20/03		4710		5970	
MONT-DEQ	G080005	47.41360	-105.57300	Redwater River	Cemetary Rd. - RW-2	08/27/03		4870		6010	
MONT-DEQ	G080005	47.41360	-105.57300	Redwater River	Cemetary Rd. - RW-2						
21MTHDWQ	G080007	47.41640	-105.57190	Redwater River	At USGS Gaging Station, Near Circle, MT.	03/16/76				2445	
21MTHDWQ	G080007	47.41640	-105.57190	Redwater River	At USGS Gaging Station	08/15/78				3630	
21MTHDWQ	G080007	47.41640	-105.57190	Redwater River	At USGS Gaging Station	03/26/79				977	
21MTHDWQ	G080007	47.41640	-105.57190	Redwater River	At USGS Gaging Station	07/13/79				4652	
21MTHDWQ	G080007	47.41640	-105.57190	Redwater River	At USGS Gaging Station	10/15/79				4107	
MONT-DEQ	G080008	47.42370	-105.56890	Redwater River	Below airport - RW-3	08/06/03				5240	
MONT-DEQ	G080008	47.42370	-105.56890	Redwater River	Below airport - RW-3	08/13/03		3880		5140	
MONT-DEQ	G080008	47.42370	-105.56890	Redwater River	Below airport - RW-3	08/20/03		4010		5320	
MONT-DEQ	G080008	47.42370	-105.56890	Redwater River	Below airport - RW-3	08/27/03		4210		5510	
MONT-DEQ	G080008	47.42370	-105.56890	Redwater River	Below airport - RW-3						
MONT-DEQ	G080009	47.43490	-105.55770	Redwater River	HWY 13 - RW-4	08/06/03				5040	
MONT-DEQ	G080009	47.43490	-105.55770	Redwater River	HWY 13 - RW-4	08/13/03		3720		4850	
MONT-DEQ	G080009	47.43490	-105.55770	Redwater River	HWY 13 - RW-4	08/20/03		3770		4960	
MONT-DEQ	G080009	47.43490	-105.55770	Redwater River	HWY 13 - RW-4	08/27/03		3810		4960	

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MONT-DEQ	G080009	47.43490	-105.55770	Redwater River	HWY 13 - RW-4						
21MTHDWQ	G080011	47.42370	-105.56890	Redwater River	Downstream from Highway 201	08/23/90				3990	
21MTHDWQ	G080011	47.42370	-105.56890	Redwater River	Downstream from Highway 201	08/20/91				3450	
21MTHDWQ	G080012	48.05360	-105.21890	Redwater River	At County Road, Near Mouth	07/10/73				2200	
21MTHDWQ	G080012	48.05360	-105.21890	Redwater River	At County Road	10/22/74				3203	
21MTHDWQ	G080012	48.05360	-105.21890	Redwater River	At County Road	08/15/78				2689	
21MTHDWQ	G080012	48.05360	-105.21890	Redwater River	At County Road	03/25/79				1047	
21MTHDWQ	G080012	48.05360	-105.21890	Redwater River	At County Road	07/11/79				3294	
21MTHDWQ	G080012	48.05360	-105.21890	Redwater River	At County Road	10/15/79				3084	
MONT-DEQ	G080013	48.05361	-105.21889	Redwater River	At County Road	07/01/73				2200	
MONT-DEQ	G080013	48.05361	-105.21889	Redwater River	At County Road	10/01/74				3203	
21MTHDWQ	G090001	47.95720	-105.51390	Sheep Creek	Near Wolf Point, MT.	03/16/76				1656	
MONT-DEQ	G090002	47.95722	-105.51389	Sheep Creek	D/S of Highway 13 crossing	03/01/76				1620	
MONT-DEQ	M31TMBRC03	47.34720	-106.15400	Timber Creek	2.6 stream miles D/S of Highway 200 crossing	06/17/08	0.26			10510	5300
MONT-DEQ	M31TMBRC03	47.34720	-106.15400	Timber Creek	2.6 stream miles D/S of Highway 200 crossing	08/29/08	0			19935	11000
MONT-DEQ	M31TMBRC04	47.26160	-106.15430	Timber Creek	3.6 stream miles U/S of Skull Creek Road crossing	06/16/08	0.1			12200	5500
MONT-DEQ	M48PSTRC01	47.70640	-105.24560	Pasture Creek	1500 m Upstream of Mouth	06/20/03		3590	17		
MONT-DEQ	M48PSTRC01	47.70640	-105.24560	Pasture Creek	near mouth	06/20/03					
MONT-DEQ	M48PSTRC01	47.70640	-105.24560	Pasture Creek	1500 m Upstream of Mouth	06/17/08	0.14	4000		5514	
MONT-DEQ	M48PSTRC02	47.63970	-105.16180	Pasture Creek	1250 m Upstream of Bridge NW 1/4 S27T22NR51E	06/20/03		5980	15		
MONT-DEQ	M48PSTRC03	47.64585	-105.16706	Pasture Creek	Access road crossing ¼ mile north of Delp residence	06/18/08	0.127	6560		7916	
MONT-DEQ	M49PREKC01	47.95020	-105.89480	Prairie Elk Creek	Near Mouth	06/03/03		6020	14		
MONT-DEQ	M49PREKC01	47.95020	-105.89480	Prairie Elk Creek	near mouth	06/03/03				2500	
MONT-DEQ	M49PREKC02	47.76250	-105.84760	Prairie Elk Creek	T23N, R46E, SW¼ Sec.8	06/03/03		9530	26		
MONT-DEQ	M49PREKC02	47.76250	-105.84760	Prairie Elk Creek	T23N, R46E, SW¼ Sec.8	06/03/03				5600	
MONT-DEQ	M49PREKC02	47.76250	-105.84760	Prairie Elk Creek	T23N, R46E, SW¼ Sec.8	06/18/08	0.001			4170	
MONT-DEQ	M49PREKC03	47.72306	-105.83806	Prairie Elk Creek	at Garoutte's	07/12/03				4700	
MONT-DEQ	M49PREKC04	47.80944	-105.86917	Prairie Elk Creek	at B. Taylors	07/12/03				2900	
MONT-DEQ	M49PREKC05	48.00139	-105.86444	Prairie Elk Creek	near mouth at Hutterite colony	07/12/03				1100	
MONT-DEQ	M49PREKC06	47.67277	-105.84521	Prairie Elk Creek	Arnston Ranch Corral Complex	06/18/08	0			11560	
MONT-DEQ	M49PREKC07	47.62644	-105.81458	Prairie Elk Creek	Gibbs Ranch, 904 WELDON ROAD	06/18/08	0			9500	
MONT-DEQ	M49SANDC01	48.01610	-105.71500	Sand Creek	downstream of county bridge crossing	06/04/03				1900	
McConeCD	M49SANDC01	48.01610	-105.71500	Sand Creek	near mouth (d/s of bridge crossing)	06/04/03		5830	5.2		
MONT-DEQ	M49SANDC01	48.01610	-105.71500	Sand Creek	near mouth (d/s of bridge crossing)	06/18/08	1.17			1909	540
MONT-DEQ	M49SANDC01	48.01610	-105.71500	Sand Creek	near mouth (d/s of bridge crossing)	08/28/08	0.22			3844	800
MONT-DEQ	M49SANDC02	48.01611	-105.71444	Sand Creek	near mouth at Pipals	07/12/03				1500	
MONT-DEQ	M49SANDC02	48.01611	-105.71444	Sand Creek	near mouth at Pipals	06/18/08				732	180
MONT-DEQ	M49SANDC03	47.90579	-105.65429	Sand Creek	U/S of Hubbard Road crossing	06/18/08	0.32			7174	3000
MONT-DEQ	M49SANDC03	47.90579	-105.65429	Sand Creek	U/S of Hubbard Road crossing	08/28/08	0.3			7660	
MONT-DEQ	MCNPREK 06	48.00080	-105.85870	Prairie Elk Creek	At mouth	07/12/03		3470		1100	
MONT-DEQ	MCNPREK-01	47.72050	-105.83620	Prairie Elk Creek	¼ mile D/S Sally Coulee Confluence	07/12/03		3470		4700	
MONT-DEQ	MCNPREK-01	47.72050	-105.83620	Prairie Elk Creek	¼ mile D/S Sally Coulee Confluence	07/12/03		2090		4700	

**Table 1.5 Surface Water Salinity – Unlisted Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
MONT-DEQ	MCNPRESK-01	47.72050	-105.83620	Prairie Elk Creek	¼ mile D/S Sally Coulee Confluence	07/12/03					
MONT-DEQ	MCNPRESK-02	47.76250	-105.84760	Prairie Elk Creek	T23N, R46E, SW¼ Sec.8	07/12/03				5600	
MONT-DEQ	MCNPRESK-03	47.80930	-105.87050	Prairie Elk Creek	T24N, R46E, SW¼ Sec. 30	07/12/03		2090		2900	
MONT-DEQ	MCNPRESK-03	47.80930	-105.87050	Prairie Elk Creek	T24N, R46E, SW¼ Sec. 30	07/12/03					
MONT-DEQ	MCNPRESK-04	47.84310	-105.86450	Prairie Elk Creek	At Pass Road Crossing	10/06/03				4380	
MONT-DEQ	MCNPRESK-05	47.91370	-105.88430	Prairie Elk Creek	D/S of Highland Road crossing.	07/12/03				1300	
MONT-DEQ	MCNPRESK-06	48.00080	-105.85870	Prairie Elk Creek	Near mouth- aka PRELK-06	07/12/03		536		1100	
MONT-DEQ	MCNPRESK-06(near mouth)	48.00080	-105.85870	Prairie Elk Creek	At mouth	07/12/03		536			
MONT-DEQ	MCNPRESK-3A	47.82790	-105.87830	Prairie Elk Creek	At Shade Creek confluence	10/06/03		3040		3820	
MONT-DEQ	MCNPRESK-4(above Pass Croosing)	47.84310	-105.86450	Prairie Elk Creek	U/S Pass Road Crossing	10/06/03					
MONT-DEQ	MCNPRESK-4A	47.86820	-105.87100	Prairie Elk Creek	Prairie Elk Creek, 2 miles D/S Pass Road crossing	09/16/03				3500	
MONT-DEQ	MCNPRESK-4A	47.86820	-105.87100	Prairie Elk Creek	Prairie Elk Creek, 2 miles D/S Pass Road crossing	10/06/03				3440	
MONT-DEQ	MCNPRESK-4A	47.86820	-105.87100	Prairie Elk Creek	Prairie Elk Creek, 2 miles D/S Pass Road crossing	10/06/03		2650			
MONT-DEQ	MCNPRESK-4A	47.86820	-105.87100	Prairie Elk Creek	Prairie Elk Creek, 2 miles D/S Pass Road crossing	10/06/03		2340			
MONT-DEQ	MCNPRESK-4A	47.86820	-105.87100	Prairie Elk Creek	Prairie Elk Creek, 2 miles D/S Pass Road crossing	10/06/03					
MONT-DEQ	MCNPRESK-4A	47.86820	-105.87100	Prairie Elk Creek	Prairie Elk Creek, 2 miles D/S Pass Road crossing	06/18/08	0.6				
MONT-DEQ	MCNPRESK-4B	47.88980	-105.86890	Prairie Elk Creek	U/S of Highland Rd. crossing	10/06/03				3280	
MONT-DEQ	MCNPRESK-4B	47.88980	-105.86890	Prairie Elk Creek	U/S of Highland Rd. crossing	10/06/03		2250			
MONT-DEQ	MCNPRESK-5A	47.92500	-105.88490	Prairie Elk Creek	At mouth of Bermuda Creek	10/06/03		1970		2210	
MONT-DEQ	MCNPRESK-5B	47.95080	-105.89500	Prairie Elk Creek	D/S of Bermuda Creek mouth	10/06/03		5410		2880	
MONT-DEQ	MCNPRESK-5B	47.95080	-105.89500	Prairie Elk Creek	D/S of Bermuda Creek mouth	10/06/03					
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/06/03				6090	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/06/03		5050			
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/13/03				6220	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/13/03		5180			
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/20/03				6480	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/27/03		5640		6650	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	05/05/04		4240		5240	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	05/13/04		4350		5300	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	05/27/04		4540		5370	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/05/04		4650		5900	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/16/04		4870		5800	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/23/04		4990		5930	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/30/04		5060		5950	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	06/16/08	0.0097			5710	
MONT-DEQ	MCNREDW-01	47.40220	-105.58640	Redwater River	Redwater River -Fairgrounds - aka RW-1	08/02/08	0			7977	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/06/03		4710		5870	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/06/03		4750			
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/13/03		4870		5970	

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MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/13/03		4750			
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/20/03				5970	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/27/03				6010	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	05/05/04		3970		4990	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	05/13/04		4040		5000	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	05/20/04		3920		4940	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	05/27/04		3870		4820	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/05/04		5090		6490	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/16/04		4930		6030	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/23/04		4910		6150	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/30/04		4880		6170	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	06/07/05		4010		690	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	06/16/08	0.28			4810	
MONT-DEQ	MCNREDW-02	47.41360	-105.57300	Redwater River	Redwater River -Cemetary Rd.	08/27/08	0.15			7454	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/06/03		4210		5240	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/06/03					
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/13/03		3710		5140	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/13/03		3880			
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/20/03				5320	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/27/03				5510	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	05/05/04				4780	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	05/13/04		3700		4750	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	05/20/04		3640		4680	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	05/27/04		3690		4680	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	06/23/04		3630		4990	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/05/04				5110	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/16/04		3730		4910	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/23/04		3880		5070	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/30/04		3670		8830	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	10/06/04		4010		4300	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	06/23/05		3880		3530	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	06/16/08	0.162			4560	
MONT-DEQ	MCNREDW-03	47.42370	-105.56890	Redwater River	Redwater River- Below airport	08/27/08	0.056			5479	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/06/03				5040	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/06/03		4040			
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/13/03				4850	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/13/03		3720			
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/20/03		3770		4960	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/27/03		3810		4960	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	09/15/03					
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	11/09/03				5800	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	12/09/03				4840	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	01/15/04				4150	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	02/16/04				4150	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	03/25/04				2140	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	04/20/04				4250	

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MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	05/05/04		3740		4770	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	05/13/04		3730		4760	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	05/20/04		3790		4150	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	05/27/04		4340		5360	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/05/04		3840		5290	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/16/04		4000		5190	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/30/04		4050		5170	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	09/22/04				4560	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	10/18/04				4760	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	11/15/04				9470	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	12/15/04				4870	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	02/08/05				4480	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	03/07/05				3330	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	04/07/05				5180	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	06/07/05				1080	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	06/17/08	0.25			5458	
MONT-DEQ	MCNREDW-04	47.43490	-105.55770	Redwater River	Redwater River -HWY 13	08/27/08	0.0013			6650	
MONT-DEQ	MCNREDW-1-8	47.30528	-105.76694	Redwater River	At Brockway	06/07/05				474	
MONT-DEQ	MCNREDW-2C	47.54528	-105.37889	Redwater River	T21N, R49E, SW ¼ Sec. 25	06/23/04				4170	
MONT-DEQ	MCNREDW-2C	47.54528	-105.37889	Redwater River	T21N, R49E, SW ¼ Sec. 25	10/06/04				4250	
MONT-DEQ	MCNREDW-3A	47.71611	-105.24722	Redwater River	D/S or Pasture Creek mouth	06/23/04				3940	
MONT-DEQ	MCNREDW-3A	47.71611	-105.24722	Redwater River	D/S or Pasture Creek mouth	10/06/04				3750	
MONT-DEQ	MCNREDW-3A	47.71611	-105.24722	Redwater River	D/S or Pasture Creek mouth	06/22/05				2780	
MONT-DEQ	MCNREDW-3D	48.04694	-105.21639	Redwater River	T27N, R50E, SE ¼ Sec. 35	06/24/04				3420	
MONT-DEQ	MCNREDW-3D	48.04694	-105.21639	Redwater River	T27N, R50E, SE ¼ Sec. 35	10/06/04				3500	
MONT-DEQ	MCN-REDW-3D	48.04694	-105.21639	Redwater River	T27N, R50E, SE ¼ Sec. 35	06/22/05				2450	
MONT-DEQ	MCNREDW-3G	47.92917	-105.25980	Redwater River	T25N, R50E, SE ¼ Sec. 9	06/24/04				3730	
MONT-DEQ	MCNREDW-3G	47.92917	-105.25980	Redwater River	T25N, R50E, SE ¼ Sec. 9	10/06/04				3650	
MONT-DEQ	MCNREDW-3G	47.92917	-105.25980	Redwater River	T25N, R50E, SE ¼ Sec. 9	06/22/05				2960	
MONT-DEQ	MCNSAND-01	48.01600	-105.71470	Sand Creek	At the mouth	07/12/03		983		1500	
MONT-DEQ	MCNSAND-02	47.90340	-105.65940	Sand Creek	T25N, R47E, NE¼ Sec. 21	09/16/03				17880	
MONT-DEQ	MCNSAND-03	47.86850	-105.64060	Sand Creek	T25N, R47E, SE¼ Sec. 34	09/16/03		12400		13400	
MONT-DEQ	MCNSAND-2A	47.97620	-105.65630	Sand Creek	T26N, R47E, SE¼ Sec. 28	09/16/03		2440		3550	
MONT-DEQ	MCNTMBR-01	47.16950	-106.12030	Timber Creek	1.5 miles U/S of Last Chance Road crossing	07/10/03				7440	
MONT-DEQ	MCNTMBR-01	47.16950	-106.12030	Timber Creek	1.5 miles U/S of Last Chance Road crossing	07/10/03		7680			
MONT-DEQ	MCNTMBR-02	47.26200	-106.15270	Timber Creek	3.6 stream miles U/S of Skull Creek Road crossing	07/10/03				21000	
MONT-DEQ	MCNTMBR-04	47.13770	-106.16670	Timber Creek	1 mi U/S from HWY 200 crossing	07/10/03		6760		11400	
MONT-DEQ	MCNTMBR-05	47.39420	-106.16490	Timber Creek	1.7 miles U/S of Highway 24 crossing	07/10/03				8070	
MONT-DEQ	MCNTMBR-06	47.45890	-106.22260	Timber Creek	400 m D/S of Shed Creek confluence	07/10/03				4520	
MONT-DEQ	MCNTMBR-06	47.45890	-106.22260	Timber Creek	400 m D/S of Shed Creek confluence	07/10/03		3260			
	Prairie Elk PE-01	47.72050	-105.83620	Prairie Elk Creek				2630	13.7		
	Redwater (3-A)	47.71611	-105.24722	Redwater River				2050	8.22		
	Redwater (3-D)	48.04694	-105.21639	Redwater River				2030			
	Redwater (RW-03)	47.42370	-105.56890	Redwater River				2730	8.15		

**Table 1.5 Surface Water Salinity – Unlisted Segments**

Agency Code	Station ID	Latitude	Longitude	Station Name	Site Description	Activity Start Date	Instantaneous Discharge (cfs)	Total Dissolved Solids (mg/L)	Sodium Adsorption Ratio (SAR)	Specific Conductance (uS/cm)	Sulfate-S (mg/L)
	Redwater 1-8	47.30528	-105.76694	Redwater River		06/07/05		444	1.7		
	Redwater RW-02A	47.41300	-105.58334	Redwater River		06/07/05		614			
	Redwater RW-04	47.43490	-105.55770	Redwater River		06/07/05		656	3.54		
	Site 2D	47.39583	-105.59722	Redwater River		05/26/99	1.25	4910	10.3		
	Site 2F	47.42500	-105.57250	Redwater River		05/26/99	1.3	4580	10.7		
	Site 3A	47.71611	-105.24722	Redwater River		05/25/99	2.5	2970	10.8		
	Site 3B	47.70790	-105.25184	Pasture Creek		05/25/99	2.5	3760	12.7		
	Site 3D Nickwall Crossing	48.04694	-105.21639	Redwater River		05/25/99	25	3280	12.2		
	Site 3EF	47.89889	-105.20528	Redwater River		05/26/99	4	4010	16.5		
	Site 3H, Reach 1	47.77833	-105.23389	Redwater River		05/25/99	3	10400	16.7		
	Site 8, Reach 1	47.30500	-105.76694	Redwater River		05/26/99	0.75	6560	10.7		
	Site2B	47.57778	-105.35583	Redwater River		05/24/99	2.25	3450	11.3		

**Table 1.6 Redwater TPA Ground Water Quality**

SUBBASIN NAME	SAMPLE ID	GWIC ID	LAT	LONG	SAMPLE DATE	TWNSHP	RNG	SEC	TRACT	AQUIFER	TOTAL DEPTH (ft)	TEMP (°C)	PH (SU)	SC (µmhos/cm)	CA (mg/L)	MG (mg/L)	NA (mg/L)	K (mg/L)	FE (mg/L)	MN (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	CL (mg/L)	NO3_N (mg/L)
LOWER REDWATER	1952Q0005	895035	47.74080	-105.35470	6/16/1952	23N	50E	19	BDC	337MSNC	0.0		9.00	0	1800.0	280.0	46000 k		0.00		280	4200	72000.00	0.00
TIMBER CREEK	1975Q0917	2348	47.35410	-106.16660	7/15/1975	19N	44E	31	CCDA	125TGRV	78.0	9.5	7.00	3437	78.0	66.0	700.0	6.30	0.00	0.08	911	1223	8.00	1.00
TIMBER CREEK	1975Q0918	2347	47.37440	-106.14860	7/15/1975	19N	44E	29	CBBB	125TGRV	90.0	10.0	8.00	2092	3.0	1.0	514.0	1.90	0.00	<.01	751	460	22.00	1.00
NELSON	1975Q0919	2343	47.43380	-106.04660	7/15/1975	19N	44E	1	ADCD	125TGRV	60.0	9.0	8.00	1906	98	66	295.0	4.80	0.00	0.14	566	660	6.00	0.00
TIMBER CREEK	1975Q0923	2345	47.39610	-106.16720	7/17/1975	19N	44E	19	BBAB	125LEBO	141.0	0.0	8.00	2233	4.0	2.0	592.5	2.00	0.00	<.01	1053	325	43.00	3.00
TIMBER CREEK	1975Q0924	2207	47.30580	-106.16000	7/16/1975	18N	44E	19	BDAD	125TGRV	100.0	0.0	8.00	2648	7.0	4.0	627.5	2.40	0.00	0.01	627	847	18.00	2.00
TIMBER CREEK	1975Q0925	2206	47.31160	-106.12610	7/16/1975	18N	44E	16	CCCB	125TGRV	123.0	0.0	9.00	4635	9.0	28.0	1075.0	4.80	0.00	0.01	315	1994	21.00	4.00
UPPER REDWATER	1975Q1016	2357	47.41330	-105.84380	7/21/1975	19N	46E	10	CDCA	125TGRV	108.0	0.0	8.00	3264	43.0	44.0	765.0	4.90	0.00	0.10	1174	965	10.00	2.00
UPPER REDWATER	1975Q1017	2356	47.41330	-105.88410	7/22/1975	19N	46E	8	CDDB	125TGRV	135.0	12.0	8.00	991	50.0	46.0	97.0	5.40	0.00	0.01	531	99	2.00	0.00
UPPER REDWATER	1975Q1019	2354	47.42080	-105.87800	7/22/1975	19N	46E	8	ACDA	125TGRV	63.0	9.0	7.00	1020	128.0	57.0	15.4	3.20	0.00	0.01	661	36	4.00	6.00
UPPER REDWATER	1975Q1020	2360	47.40380	-105.87360	7/22/1975	19N	46E	17	DAAC	125TGRV	135.0	0.0	7.00	706	48.0	50.0	29.4	3.20	0.00	0.04	393	68	3.00	1.00
TIMBER CREEK	1975Q1024	2208	47.29000	-106.16270	7/17/1975	18N	44E	30	BDCA	125TGRV	140.0	0.0	8.00	3272	10.0	7.0	825.0	3.10	0.00	0.01	985	1028	7.00	1.00
UPPER REDWATER	1975Q1029	2143	47.22330	-105.95250	7/22/1975	17N	45E	23	BBAB	125TGRV	130.0	0.0	8.00	3705	50.0	65.0	810.0	7.90	0.00	0.06	1430	969	7.00	2.00
TIMBER CREEK	1975Q1030	2139	47.26300	-105.99250	7/22/1975	17N	45E	4	BDBB	125TGRV	140.0	10.0	7.00	4135	136.0	116.0	792.5	9.50	0.00	0.08	1176	1525	3.00	4.00
TIMBER CREEK	1975Q1031	2126	47.25190	-106.05130	7/22/1975	17N	44E	12	ABBC	125TGRV	100.0	0.0	8.00	3828	166.0	131.0	707.5	9.10	0.00	0.58	1260	1445	6.00	2.00
TIMBER CREEK	1975Q1032	2124	47.26360	-106.04800	7/22/1975	17N	44E	1	ACAA	125TGRV	72.0	0.0	7.00	3047	175.0	142.0	440.0	11.40	0.00	0.10	1062	1100	6.00	2.00
UPPER REDWATER	1975Q1180	2362	47.37360	-105.83860	7/23/1975	19N	46E	27	DBCA	125TGRV	48.0	9.0	7.00	1005	108.0	66.0	18.0	4.00	0.00	0.20	422	240	5.00	0.00
UPPER REDWATER	1975Q1183	2366	47.35550	-105.87800	7/23/1975	19N	46E	32	DCDD	125TGRV	56.0	9.5	6.00	621	84.0	29.0	3.4	2.20	0.00	<.01	372	26	4.00	1.00
UPPER REDWATER	1975Q1184	2376	47.39880	-105.66440	7/28/1975	19N	47E	13	DDCB	125TGRV	33.0	9.0	7.00	2055	171.0	138.0	139.0	6.40	0.00	0.60	904	510	1.00	1.00
UPPER REDWATER	1975Q1185	2375	47.41220	-105.66910	7/28/1975	19N	47E	13	ABBA	125TGRV	50.0	9.0	7.00	4308	299.0	230.0	532.5	9.60	0.00	0.70	785	2126	8.00	4.00
UPPER REDWATER	1975Q1186	2374	47.41830	-105.71190	7/28/1975	19N	47E	10	DBBD	125TGRV	60.0	8.0	7.00	4160	119.0	173.0	765.0	10.90	0.00	0.06	667	1987	6.00	3.00
UPPER REDWATER	1975Q1188	2372	47.42080	-105.71000	7/28/1975	19N	47E	10	ACDC	110ALVM	20.0	8.0	7.00	3198	237.0	248.0	230.0	2.70	0.00	<.01	379	1706	4.00	7.00
HORSE	1975Q1189	2367	47.44020	-105.66660	7/28/1975	19N	47E	1	ABAD	125TGRV	100.0	0.0	7.41	2976	87.3	83.8	514.0	4.80	0.01	<.01	628.7	1094.40	6.55	1.20
HORSE	1975Q1190	2368	47.43750	-105.68580	7/28/1975	19N	47E	2	ADBB	125TGRV	63.1	9.0	7.74	1638	28.6	41.3	287.0	4.70	0.01	<.01	500.4	454.60	3.25	1.00
HORSE	1975Q1191	2369	47.43750	-105.68580	7/28/1975	19N	47E	2	ADBB	125TGRV	90.0	10.0	7.67	3227	104.4	83.4	566.0	5.60	0.01	<.01	854	1083.20	6.70	4.00
UPPER REDWATER	1975Q1192	2370	47.41330	-105.76360	7/29/1975	19N	47E	8	CCDC	125TGRV	85.0	10.0	7.00	1980	183.0	139.0	92.0	3.80	0.00	<.01	495	667	45.00	20.00
UPPER REDWATER	1975Q1193	2371	47.41330	-105.75270	7/29/1975	19N	47E	8	DCDC	125TGRV	61.0	8.0	7.00	2001	112.0	119.0	199.0	8.10	0.00	0.07	938	429	4.00	4.00



**Table 1.6 Redwater TPA Ground Water Quality**

SUBBASIN NAME	SAMPLE ID	GWIC ID	LAT	LONG	SAMPLE DATE	TWNSHP	RNG	SEC	TRACT	AQUIFER	TOTAL DEPTH (ft)	TEMP (°C)	PH (SU)	SC (µmhos/cm)	CA (mg/L)	MG (mg/L)	NA (mg/L)	K (mg/L)	FE (mg/L)	MN (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	CL (mg/L)	NO3_N (mg/L)
UPPER REDWATER	1975Q1194	2377	47.39160	-105.74750	7/29/1975	19N	47E	20	ADDC	125TGRV	20.0	5.5	7.00	2369	63.0	66.0	445.0	5.40	0.00	0.08	878	673	6.00	1.00
HORSE	1975Q1195	2488	47.46830	-105.86130	8/12/1975	20N	46E	28	ABBC	125TGRV	120.2	12.0	6.94	1435	99.0	91.0	116.0	6.30	0.06	0.14	639.2	351.60	3.85	0.20
UPPER REDWATER	1975Q1198	2140	47.24630	-105.94110	7/28/1975	17N	45E	11	ACDD	125TGRV	65.0	0.0	7.00	2152	161.0	136.0	168.5	7.50	0.00	0.01	840	636	4.00	1.00
UPPER REDWATER	1975Q1199	2142	47.24770	-105.93300	7/28/1975	17N	45E	12	BCBD	125TGRV	105.0	0.0	7.00	1063	113.0	68.0	17.4	4.30	1.00	0.19	318	319	11.00	0.00
UPPER REDWATER	1975Q1200	2138	47.25580	-105.92000	7/28/1975	17N	45E	1	DCAA	125TGRV	50.0	10.0	7.00	897	122.0	49.0	6.6	2.80	0.00	0.60	500	105	1.00	0.00
TIMBER CREEK	1975Q1201	2137	47.18910	-106.04800	7/29/1975	17N	44E	36	ACDD	125TGRV	95.0	9.0	8.00	3193	45.0	35.0	712.5	6.80	0.00	0.05	1107	879	7.00	2.00
TIMBER CREEK	1975Q1202	2062	47.17880	-106.04770	7/29/1975	16N	45E	5	AABC	125TGRV	76.0	13.0	8.00	3411	16.0	12.0	848.0	4.00	0.00	<.01	944	1146	8.00	1.00
UPPER REDWATER	1975Q1203	2144	47.20800	-105.92860	7/29/1975	17N	45E	25	BABC	125TGRV	86.0	0.0	7.00	1269	143.0	86.0	21.1	4.70	0.00	0.10	811	103	2.00	1.00
UPPER REDWATER	1975Q1204	2216	47.28110	-105.82500	8/4/1975	18N	46E	35	BBAD	125TGRV	144.0	11.0	8.00	4645	80.0	56.0	1167.5	7.40	0.00	0.05	1811	1404	21.00	2.00
MCGUIRE CREEK	1975Q1205	2615	47.56910	-106.04250	8/7/1975	21N	44E	23	BBDC	125LEBO	123.0	11.0	8.00	4990	28.0	11.0	1230.0	4.70	0.00	0.02	1284	1660	15.00	3.00
LOWER REDWATER	1975Q1206	2755	47.64580	-105.69800	8/13/1975	22N	47E	21	CDCC	125TGRV	70.0	8.5	7.00	1443	134.0	121.0	34.4	4.10	0.00	0.89	605	398	4.00	0.00
MCGUIRE CREEK	1975Q1283	2619	47.54020	-105.93580	8/18/1975	21N	45E	34	BBDA	110ALVM	17.0	8.0	7.00	6542	164.0	311.0	1116.0	19.20	0.00	0.11	915	3172	44.00	26.00
MCGUIRE CREEK	1975Q1287	2620	47.53660	-105.91500	8/20/1975	21N	45E	35	BCDC	125TGRV	119.0	9.5	7.00	3487	26.0	32.0	787.5	5.30	0.00	0.04	1125	975	10.00	0.00
MCGUIRE CREEK	1975Q1290	2753	47.64160	-105.99550	9/3/1975	22N	45E	30	BADC	125LEBO	150.0	13.0	7.00	4720	35.0	18.0	1117.5	4.60	0.00	0.03	1294	1445	11.00	3.00
TIMBER CREEK	1975Q1380	2125	47.26130	-106.08800	7/23/1975	17N	44E	3	ADCD	125TGRV	34.0	10.0	8.00	2144	193.0	81.0	230.0	6.20	0.00	1.45	718	681	6.00	2.00
TIMBER CREEK	1975Q1381	2128	47.23750	-106.13880	7/23/1975	17N	44E	17	BAAD	125TGRV	46.0	9.0	8.00	2863	120.0	103.0	448.0	6.00	0.00	<.01	722	1078	8.00	0.00
TIMBER CREEK	1975Q1388	2059	47.17830	-106.12110	7/24/1975	16N	44E	2	BABB	110ALVM	26.0	9.0	8.00	4173	70.0	47.0	936.0	8.00	0.00	0.00	976	1566	6.00	3.00
TIMBER CREEK	1975Q1389	2136	47.18410	-106.08800	7/24/1975	17N	44E	34	DDBA	125TGRV	126.0	10.5	9.00	3530	10.0	44.0	776.0	7.50	0.00	<.01	517	1364	12.00	1.00
MCGUIRE CREEK	1975Q1538	2752	47.64580	-106.03190	8/7/1975	22N	44E	23	DDBC	125LEBO	37.0	7.0	8.00	1567	91.0	60.0	193.0	3.70	0.00	0.01	448	522	7.00	0.00
HORSE	1975Q1543	2487	47.52160	-105.81250	8/8/1975	20N	46E	2	ADCD	125TGRV	29.5	7.0	8.08	1021	78.4	63.0	51.0	3.60	<.01	<.01	277.6	278.90	48.20	0.80
PASTURE CREEK	1975Q1546	2760	47.68270	-105.14880	9/24/1975	22N	51E	10	ADDA	125TGRV	111.0		9.00	2601	4.0	3.0	617.5	2.20	0.00	<.01	665	691	13.00	1.00
LOWER REDWATER	1975Q1647	2624	47.56190	-105.46720	9/18/1975	21N	49E	20	CCBA	125TGRV	76.0	0.0	8.00	4179	57.0	60.0	935.0	7.20	0.00	0.09	1220	1368	7.00	2.00
PASTURE CREEK	1975Q1648	2625	47.57970	-105.14660	9/24/1975	21N	51E	14	CBBB	125TGRV	138.0	12.0	8.00	3232	163.0	124.0	495.0	8.40	0.00	0.15	726	1368	5.00	2.00
LOWER REDWATER	1975Q1649	2494	47.48750	-105.39610	10/1/1975	20N	50E	18	CDDA	125TGRV	120.0		8.00	1283	98.0	69.0	98.5	5.10	0.00	0.02	405	386	3.00	1.00
EAST REDWATER	1975Q1650	3008	47.81630	-105.05860	10/7/1975	24N	52E	28	BBAD	110ALVM	33.0	10.0	8.00	2252	49.0	115.0	317.0	2.00	0.00	0.00	443	811	27.00	23.00
LOWER REDWATER	1975Q1651	2758	47.63250	-105.33580	9/17/1975	22N	50E	29	CCDB	110ALVM	25.0		9.00	1653	26.0	68.0	250.0	5.10	0.00	<.01	348	354	111.00	0.00
LOWER REDWATER	1975Q1652	2906	47.75190	-105.27000	9/25/1975	23N	50E	14	CACB	110ALVM	39.0		8.00	23740	51.0	46.0	460.0	4.80	0.00	<.01	772	677	8.00	3.00
LOWER REDWATER	1975Q1653	2907	47.75160	-105.27000	9/25/1975	23N	50E	14	CACC	110ALVM	26.0		8.00	2173	59.0	43.0	436.0	4.60	0.00	0.04	806	612	5.00	1.00

**Table 1.6 Redwater TPA Ground Water Quality**

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PASTURE CREEK	1975Q1654	2762	47.63130	-105.09190	9/30/1975	22N	52E	30	DCCD	125TGRV	60.0		8.00	1137	68.0	100.0	37.0	7.20	0.00	<.01	464	240	12.00	13.00
EAST REDWATER	1975Q1694	3010	47.83380	-104.91130	10/13/1975	24N	53E	15	CCCD	110ALVM	30.0	0.0	8.00	1235	115.0	83.0	46.0	3.00	0.00	0.00	405	385	3.00	3.00
EAST REDWATER	1975Q1698	2915	47.75440	-104.82910	10/17/1975	23N	54E	18	ADDA	125TGRV	51.0	9.0	8.00	600	85.0	31.0	3.0	2.00	0.00	0.00	395	30	2.00	1.00
EAST REDWATER	1975Q1736	3063	47.89630	-104.99410	11/12/1975	25N	52E	27	BABB	110ALVM	40.0	0.0	8.00	1708	159.0	102.0	131.0	4.00	0.00	0.00	475	648	4.00	4.00
UPPER REDWATER	1975Q1781	2379	47.42690	-105.54520	11/18/1975	19N	48E	12	BAAB	125TGRV	80.2	10	7.77	1234	55.7	43.5	162.0	3.80	0.01	0.05	429	308	6.30	0.30
TIMBER CREEK	1975Q1782	2203	47.33110	-106.21580	9/8/1975	18N	43E	10	DABD	125LEBO	110.0	11.0	8.00	2200	190.0	176.0	91.0	6.00	0.00	0.00	581	748	44.00	21.00
LOWER REDWATER	1975Q1784	2759	47.69720	-105.10610	11/21/1975	22N	51E	1	ADDA	125TGRV	40.0	7.5	7.00	1699	111.0	120.0	116.0	4.90	6.00	0.15	446	642	6.00	0.00
LOWER REDWATER	1975Q1785	2910	47.75550	-105.09580	10/21/1975	23N	52E	18	BDAC	125TGRV	88.0	0.0	8.00	4091	15.0	14.0	1025.0	5.00	0.00	0.00	1415	1148	12.00	2.00
LOWER REDWATER	1975Q1788	2378	47.43190	-105.57130	11/18/1975	19N	48E	2	CBDA	125TGRV	109.0	10.5	8.00	2321	9.0	9.0	584.0	3.20	0.00	0.01	1191	344	17.00	0.00
EAST REDWATER	1975Q1806	3067	47.87380	-104.88440	11/21/1975	25N	53E	33	CABA	125TGRV	72.0	0.0	8.00	1330	178.0	81.0	18.0	4.00	0.00	0.00	504	387	7.00	1.00
MCGUIRE CREEK	1976Q1087	2614	47.57630	-106.07750	9/3/1976	21N	44E	16	DBCD	110ALVM	15.0	10.5	8.00	772	55.0	39.0	59.0	3.00	0.00	<.01	292	148	10.00	5.00
PASTURE CREEK	1976Q1157	2626	47.57860	-105.07880	9/8/1976	21N	52E	17	CABC	125TGRV	38.0		8.00	888	39.0	45.0	108.0	3.40	3.00	0.08	552	62	18.00	0.00
LOWER REDWATER	1976Q5000	143805	47.59500	-104.94040	5/4/1976	21N	53E	8	DABB	125TGRV	68.0	11.0	0.00	0	270.0	240.0	67.0	8.50	1.00	0.46	651	1200	6.00	0.00
LOWER REDWATER	1979Q3206	2491	47.48470	-105.53050	8/8/1979	20N	49E	18	CCDC	125TGRV	120.0	26.8	9.00	3428	28.0	22.0	789.0	4.60	0.00	0.02	1157	830	10.00	0.00
NELSON	1979Q3207	2483	47.47050	-106.00330	8/11/1979	20N	45E	20	DDBC	125TGRV	120.0	26.0	8.00	4081	41	26	960.0	5.40	0.00	0.03	987	1400	9.00	2.00
NELSON	1979Q3208	2484	47.46330	-106.02910	8/11/1979	20N	45E	30	DBAB	125TGRV	57.0	26.0	2.00	2288	99	79	344.0	5.40	5.00	0.24	293	1005	10.00	5.00
UPPER REDWATER	1980Q2477	2218	47.31880	-105.57440	9/16/1980	18N	48E	14	CBBA	125TGRV	88.0	8.0	7.00	2819	111.0	84.0	458.0	5.20	4.00	0.64	559	1113	12.00	0.00
UPPER REDWATER	1980Q2478	2219	47.28550	-105.55830	9/16/1980	18N	48E	26	DDBA	125TGRV	140.0	13.0	7.00	4127	435.0	392.0	182.0	11.80	6.00	0.31	876	2313	14.00	0.00
UPPER REDWATER	1980Q2479	2146	47.24660	-105.81440	9/17/1980	17N	46E	11	ADCC	125TGRV	72.0	8.0	8.00	3830	40.0	34.0	848.0	4.60	0.00	0.04	871	1323	18.00	1.00
UPPER REDWATER	1980Q2480	2145	47.25580	-105.86970	9/17/1980	17N	46E	4	CCAC	125TGRV	80.0	9.0	8.00	2411	144.0	118.0	339.0	8.90	2.00	0.12	801	901	8.00	3.00
UPPER REDWATER	1980Q2481	2147	47.18720	-105.88050	9/17/1980	17N	46E	32	DBAB	125TGRV	50.0	9.0	8.00	3444	48.0	41.0	721.0	5.50	0.00	0.03	867	1108	17.00	0.00
UPPER REDWATER	1980Q2484	2148	47.26330	-105.73270	9/16/1980	17N	47E	4	ACBA	125TGRV	67.0	9.0	8.00	1468	124.0	94.0	78.6	5.70	0.00	0.05	372	533	9.00	0.00
UPPER REDWATER	1980Q2485	2217	47.33610	-105.70440	9/16/1980	18N	47E	10	ADAA	125TGRV	114.0	14.0	9.00	2360	4.0	3.0	560.0	1.80	0.00	0.01	805	492	18.00	0.00
UPPER REDWATER	1980Q2490	2063	47.17630	-105.81300	9/20/1980	16N	47E	6	ADAA	125TGRV	72.0	10.0	7.00	0	216.0	230.0	166.0	6.00	0.00	0.01	411	1450	20.00	3.00
UPPER REDWATER	1980Q2492	1987	47.08660	-105.79360	9/19/1980	15N	47E	5	ADCD	125TGRV	83.0	8.5	8.00	2931	262.0	283.0	89.0	9.00	4.00	0.07	736	1390	7.00	2.00
LOWER REDWATER	1980Q2497	2904	47.74720	-105.39880	9/23/1980	23N	49E	14	CDCC	125TGRV	75.0	9.0	8.00	1172	191.0	45.0	8.3	9.70	0.00	0.06	515	253	7.00	0.00
LOWER REDWATER	1980Q2502	3005	47.83190	-105.45970	9/24/1980	24N	49E	20	BAAD	125LEBO	65.0	10.0	8.00	1219	119.0	79.0	45.4	5.00	1.00	0.18	628	209	8.00	0.00
LOWER REDWATER	1980Q2503	2902	47.72000	-105.71550	9/25/1980	23N	47E	29	DCBB	125TGRV	50.0	8.0	8.00	2284	189.0	124.0	190.0	5.00	0.00	0.03	562	880	16.00	2.00
LOWER	1980Q2508	3218	47.97520	-105.31050	9/23/1980	26N	50E	30	DBBD	125TLCK	42.0	8.5	8.00	5792	96.0	45.0	1371.0	8.40	9.00	0.21	1142	2341	35.00	0.00

**Table 1.6 Redwater TPA Ground Water Quality**

SUBBASIN NAME	SAMPLE ID	GWIC ID	LAT	LONG	SAMPLE DATE	TWNSHP	RNG	SEC	TRACT	AQUIFER	TOTAL DEPTH (ft)	TEMP (°C)	PH (SU)	SC (µmhos/cm)	CA (mg/L)	MG (mg/L)	NA (mg/L)	K (mg/L)	FE (mg/L)	MN (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	CL (mg/L)	NO3_N (mg/L)
REDWATER																								
LOWER REDWATER	1980Q2513	3004	47.82880	-105.51110	9/24/1980	24N	48E	24	BCBC	125LEBO	65.0	8.0	8.00	3364	376.0	193.0	234.0	5.50	0.00	0.01	684	1610	29.00	9.00
LOWER REDWATER	1980Q2515	3006	47.81110	-105.39580	9/24/1980	24N	49E	26	CAAA	125LEBO	34.0	9.5	8.00	2405	132.0	87.0	320.0	5.10	0.00	0.11	528	825	24.00	16.00
SAND CREEK	1980Q2516	3057	47.89050	-105.69970	9/26/1980	25N	47E	30	ACCD	112DRFT	36.0	10.0	8.00	5300	115.0	137.0	1030.0	5.90	0.00	0.01	770	2240	21.00	16.00
SAND CREEK	1980Q2517	3208	47.97720	-105.69800	9/26/1980	26N	47E	30	ACCD	211FHHC	76.0	12.0	8.00	2191	17.0	7.0	526.0	2.50	0.00	0.03	1042	335	8.00	0.00
LOWER REDWATER	1980Q2526	3007	47.83300	-105.32080	9/2/1980	24N	50E	20	AAAA	125LEBO	83.0	10.0	8.00	4543	57.0	47.0	1076.0	5.90	0.00	0.05	1333	1500	38.00	0.00
PRAIRIE ELK CREEK	1980Q2530	2998	47.80860	-105.89080	9/1/1980	24N	45E	25	CACC	211HLCK	73.0	9.0	8.00	4291	13.0	5.0	1059.0	2.00	0.00	0.01	1226	1320	11.00	1.00
EAST REDWATER	1980Q2591	3062	47.94250	-105.04050	9/3/1980	25N	52E	5	CCAC	112DRFT	42.0	8.0	8.00	2777	218.0	137.0	275.0	6.00	0.00	3.00	672	1120	17.00	1.00
EAST REDWATER	1981Q0094	3014	47.79362	-104.82395	3/3/1981	24N	54E	32	C	125FRUN	70.0	0.0	8.00	964	85.0	63.0	14.0	3.00	0.00	0.00	436	120	4.00	1.00
TIMBER CREEK	1981Q1700	2210	47.32830	-105.97800	9/14/1981	18N	45E	10	CCBB	125TGRV	138.0	10.5	8.00	3064	108.0	99.0	524.0	8.60	1.00	0.07	924	994	8.00	0.00
TIMBER CREEK	1981Q1701	2350	47.35500	-106.23050	9/15/1981	19N	44E	35	DDDD	125TGRV	140.0	11.0	8.00	3827	13.0	8.0	975.0	2.20	0.00	0.01	1190	1010	8.00	0.00
TIMBER CREEK	1981Q1702	2349	47.36190	-106.11520	9/15/1981	19N	44E	33	ACCD	125TGRV	60.0	10.0	8.00	4391	24.0	16.0	1102.0	3.10	0.00	0.03	1330	1260	21.00	0.00
UPPER REDWATER	1982Q0032	2141	47.24830	-105.93550	1/19/1982	17N	45E	12	BCBC	110ALVM	18.0	12.0	8.00	2255	239.0	165.0	100.0	3.70	0.00	0.51	417	1110	12.00	2.00
UPPER REDWATER	1982Q0040	2215	47.27080	-105.84380	1/19/1982	18N	46E	34	CD	125TGRV	140.0	7.0	8.00	3300	38.0	28.0	719.0	5.80	0.00	0.05	1108	936	5.00	0.00
LOWER REDWATER	1982Q0041	2381	47.41750	-105.28750	1/1/1900	19N	50E	12	CD	125FRUN	100.0		8.00	2192	91.0	78.0	327.0	6.40	1.00	0.05	638	759	5.00	0.00
LOWER REDWATER	1982Q0042	2382	47.41750	-105.28800	1/1/1900	19N	50E	12	CD	125FRUN	80.0		8.00	2183	94.0	86.0	308.0	6.50	6.00	0.08	734	716	3.00	0.00
UPPER REDWATER	1982Q0047	2064	47.16330	-105.75160	1/19/1982	16N	47E	10	AACA	125TGRV	90.0		8.00	2652	10.0	6.0	618.0	2.00	0.00	0.01	637	848	8.00	0.00
NELSON	1982Q0301	2485	47.46500	-106.02830	5/7/1982	20N	45E	30	DBAB	125TGRV	57.0	10.0	6.00	2214	95	77	335.0	4.70	4.00	0.22	290	1020	10.00	0.00
EAST REDWATER	1995Q0321	37875	47.90220	-105.16970	11/6/1994	25N	51E	20	CBDB	110ALVM	28.0	9.0	7.00	3660	103.0	97.0	794.0	6.00	0.00	0.00	971	1500	7.00	0.00
TIMBER CREEK	1995Q0633	132726	47.05160	-105.98300	6/20/1995	15N	45E	14	DACD	125TGRV	84.0	17.5	7.00	3490	238.0	198.0	553.0	10.00	5.00	0.48	848	1750	11.00	0.00
LOWER REDWATER	1995Q0639	143805	47.59500	-104.94040	6/17/1995	21N	53E	8	DABB	125TGRV	68.0	10.3	7.00	2850	367.0	293.0	67.0	5.70	0.00	0.26	481	1800	23.00	0.00
EAST REDWATER	1995Q0647	36271	47.76160	-104.89270	6/18/1995	23N	53E	10	DDDD	125TGRV	78.0	10.0	8.00	2800	66.0	41.0	676.0	5.00	0.00	0.00	1025	1000	5.00	0.00
LOWER REDWATER	1995Q0651	32531	47.41630	-105.28250	6/17/1995	19N	50E	12	DBDA	125TGRV	37.0	9.5	8.00	2310	134.0	128.0	295.3	9.30	1.00	0.06	666	1000	5.00	0.00
LOWER REDWATER	2000Q1093	143805	47.59500	-104.94040	5/8/2000	21N	53E	8	DABB	125TGRV	68.0	11.5	7.00	3350	413.0	324.0	79.1	5.59	0.00	0.11	434	2059	21.00	0.00
TIMBER CREEK	2005Q0085	132738	47.12400	-106.06390	8/10/2004	16N	45E	20	CBDB	125FRUN	145.0	10.9	8.00	3470	51.0	40.0	802.0	6.00	0.00	0.08	795	1376	13.00	0.00
SAND CREEK	2005Q0087	3001	47.80430	-105.65900	8/11/2004	24N	47E	35	BBBA	125LEBO	101.0	11.3	8.00	1870	3.0	2.0	426.0	6.51	1.00	0.01	1043	7	82.00	0.00
UPPER REDWATER	2005Q0089	138134	47.41800	-105.58210	8/11/2004	19N	48E	10	DBDA	125FRUN	150.0	10.9	8.00	3130	24.0	19.0	775.0	3.87	0.00	0.03	830	1059	0.00	0.00
TIMBER CREEK	2005Q0090	132737	47.12400	-106.06380	8/10/2004	16N	45E	20	CBDB	125FRUN	145.0	10.8	8.00	3590	66.0	48.0	855.0	5.00	1.00	0.05	861	1483	12.00	0.00

