Appendix A. Summary of Field and Labatory Data (January 1998 - December 1998)

Rio Grande International Study Center

Field/Laboratory Data

Site A

Date	Time	Air Temp °C	Water Temp °C	Depth M	Flow f/s	pH	DO mg/L	Oxygen Sat %	Field TDS mg/L	Cond mS/cm	Battery (V)	Fecal Coliforms col/100ml	Total Hardness mg/L	Total Alkalinity mg/L	P. Alkalinity mg/L	BOD mg/L	COD mg/L	TSS mg/L	Lab TDS mg/L	Turbidity N.T.U.	Calcium mg/L	Chloride mg/L	Magnesium mg/L	Nitrate mg/L	Phosphate mg/L	Sulfate total mg/L	Ammonia total mg/L	Nitrite total mg/L	Nitrogen total mg/L
1/12/1998	9:30 AM	18.5	16.3	.3	2.8	8.08	10.47	105.5	600	.951	10.6	47								6.0									
2/9/1998	9:15 AM	18.5	16.16	.3	2.4	7.88	9.3	149.9	600	.981	10.4	9								6.0									
3/20/1998	10:10 AM	15	19.	.3	2.9	7.92	8.59	93.5	600	1.031	9.6	16								12.0									
4/13/1998	10:30 AM	23.0	22.31	.03	2.7	8.06	7.91	91.67	700	1.186	10.2	11								11.2									
5/22/1998	9:30 AM	25	24.87	.3	3.2	8.04	8.20	99.6	800	1.349	12.6	31								9.5									
6/15/1998	9:20 AM	31	29.80	.3	3.2	8.01	7.22	95.7	814	1.376	12.7	225								5.2									
7/20/1998	10:05 AM	29.5	29.56	.3	3.2	7.95	7.50	97.6	900	1.426	11.7	41								5.0									
8/17/1998	10:45 AM	28	28.7	.3	2.8	7.91	6.86	89.1	800	1.360	10.7	1166								15.5									
9/10/1998	10:15 AM	28	28.1	.3	4.4	7.84	8.37	107.9	1000	1.669	10.4	33								3.8									
10/8/1998	11:20 AM	23	24.13	.3	4.6	7.79	8.89	106.2	600	1.057	8.9	550								18.4									
11/12/1998	11:00 AM	17.25	19.22	.3	4.15	7.81	8.5	92	700	1.183	11.7	0								5.2									
12/15/1998	10:30 AM	17	12.04	.3	3.7	7.86	11.86	112.3	600	.940	10.4	0								3.1									

Appendix A. Continued

Site B

Date	Time	Air Temp °C	Water Temp °C	Depth M	Flow f/s	pH	DO mg/L	Oxygen Sat %	Field TDS mg/L	Cond mS/cm	Battery (V)	Fecal Coliforms col/100ml	Total Hardness mg/l	Total Alkalinity mg/l	P. Alkalinity mg/L	BOD mg/l	COD mg/l	TSS mg/l	Lab TDS mg/l	Turbidity N.T.U	Calcium mg/l	Chloride mg/l	Magnesium mg/l	Nitrate mg/L	Phosphate mg/L	Sulfate total mg/L	Ammonia total mg/L	Nitrite total mg/L	Nitrogen total mg/L
1/12/1998	3:36 AM	23.5	16.3	.3	1.85	8.10	10.09	102.8	600	.937	10.6	41								6.4									
2/9/1998	11:50 AM	25.5	17.3	.3	1.7	7.90	9.1	?	600	1.006	10.8	6								5.8									
3/20/1998	11:55 AM	18.5	19.7	.3	1.55	8.02	8.68	95.6	700	1.084	9.7	13								12.4									
4/13/1998	12:10 PM	28.0	22.94	.3	1.65	8.04	7.96	92.9	700	1.211	10.5	17								9.4									
5/22/1998	11:45 AM	32	25.27	.3	33.3	7.97	8.08	98.8	800	1.357	13	39								8.7									
6/15/1998	11:15 AM	36.0	30.23	.3	2.9	7.98	6.78	90.0	800	1.373	13.1	87								5.0									
7/20/1998	12:00 PM	32	29.63	.3	1.8	7.98	7.66	101.4	900	1.433	12.0	30								4.2									
8/17/1998	12:30 PM	32	29.64	.3	2.7	8.00	6.98	92.2	900	1.401	11.1	1000								16.0									
9/10/1998	12:10 PM	29	27.93	.3	2.2	7.94	8.59	110.0	1100	1.714	10.5	20								1.3									
10/8/1998	1:00 AM	28.5	24.67	.3	2.3	7.98	8.15	99.2	700	1.204	9.1	600								12.6									
11/12/1998	12:50 PM	20.5	19.37	.3	1.658	7.91	8.7	95	700	1.177	11.5	40								5.7									
12/15/1998	11:55 AM	17.06	13.55	.3	1.29	7.92	11.29	106.8	600	.972	10.4	0								2.9									

Appendix A. Continued

Site C

Date	Time	Air Temp °C	Water Temp °C	Depth M	Flow f/s	pH	DO mg/l	Oxygen Sat %	Field TDS mg/l	Cond mS/cm	Battery (V)	Fecal Coliforms col/100ml	Total Hardness mg/l	Total Alkalinity mg/l	P. Alkalinity mg/L	BOD mg/l	COD mg/l	TSS mg/l	Lab TDS mg/l	Turbidity N.T.U.	Calcium mg/l	Chloride mg/l	Magnesium mg/l	Nitrate mg/L	Phosphate mg/L	Sulfate total mg/L	Ammonia total mg/L	Nitrite total mg/L	Nitrogen total mg/L
1/12/1998	2:05 AM	24.5	17.1	.3	1.90	8.05	10.13	105.	600	.994	10.7	2028								7.1									
2/9/1998	2:10 AM	28.5	18.7	.3	1.25	7.82		?	600	1.065	11.1	76								6.4									
3/20/1998	2:50 AM	21	20.87	.3	1.8	7.98	8.49	95.1	700	1.102	10.00	1560								12.8									
4/13/1998	2:37 AM	31.0	24.6	.3	1.3	7.96	8.44	101	800	1.277	11.1	417								11.2									
5/22/1998	2:20 AM	37	26.11	.3	1.2	7.91	7.77	96.4	900	1.389	13.8	143								10.7									
6/15/1998	2:00 AM	39.5	31.32	.3	1.8	7.55	7.35	99.6	800	1.325	14.9	176								5.2									
7/20/1998	3:15 AM	38.5	31.35	.3	1.6	7.89	8.90	117.1	900	1.483	13.3	99								4.7									
8/17/1998	4:20 AM	37	30.80	.3	2.9	7.76	5.75	80.0	900	1.397	11.8	3100								22.2									
9/10/1998	3:50 AM	27.5	28.03	.3	2.4	8.07	10.02	130.0	1100	1.8	10.4	980								1.3									
10/8/1998	4:40 PM	29.0	25.70	.3	1.9	7.75	7.51	92.4	700	1.177	9.5	4500								12.1									
11/12/1998	2:20 PM	17.5	19.98	.3	1.3	7.80	7.8	85	800	1.254	11.5	2971								3.6									
12/15/1998	15:20	20.0	15.37	.3	3.8	7.85	10.19	109.4	700	1.137	10.6	280								1.9									

Appendix A. Continued

Site D

Date	Time	Air Temp °C	Water Temp °C	Depth M	Flow f/s	pH	DO mg/l	Oxygen Sat %	Field TDS mg/l	Cond mS/cm	Battery (V)	Fecal Coliforms col/100ml	Total Hardness mg/l	Total Alkalinity mg/l	P. Alkalinity mg/L	BOD mg/l	COD mg/l	TSS mg/l	Lab TDS mg/l	Turbidity N.T.U.	Calcium mg/l	Chloride mg/l	Magnesium mg/l	Nitrate mg/L	Phosphate mg/L	Sulfate total mg/L	Ammonia total mg/L	Nitrite total mg/L	Nitrogen total mg/L
1/12/1998	3:00 PM	26.0	17.8	.3	1.55	7.83	9.13	95.6	600	.952	10.8	850								9.2									
2/9/1998	3:20PM	29.3	19.26	.3	2.2	7.87			700	1.088	10.7	90								6.4									
3/20/1998	3:27 PM	23	21.02	.3	1.12	7.90	7.85	88.5	700	1.105	9.9	300								11.4									
4/13/1998	15:20	32.8	26.36	.3	.6	7.95	8.63	106.5	800	1.360	11.1	8								7.0									
5/22/1998	3:15	39	26.34	.3	3.0	7.82	7.58	95.5	900	1.387	13.9	150								10.3									
6/15/1998	3:05	41.0	31.50	.3	2.0	7.73	7.09	96.8	800	1.330	14.2	250								5.3									
7/20/1998	4:15 PM	40.5	31.87	.3	.5	8.14	11.21	153.3	900	1.522	13.0	53								6.5									
8/17/1998	17:15	33	31.35	.3	1.55	7.73	6.28	85.4	800	1.319	11.4	7100								7.5									
9/10/1998	2:20 PM	28	28.17	.3	3.26	8.22	11.09	143.1	1200	1.905	10.4	180								3.3									
10/8/1998	4:40	29.0	25.70	.3	1.9	7.75	7.51	92.4	700	1.177	9.5	5800								12.1									
11/12/1998	16:20	18.8	20.35	.3	3.5	7.81	8.2	90	800	1.322	11.5	229								2.1									
12/15/1998	15:20	20.0	15.37	.3	3.8	7.85	10.19	109.4	700	1.137	10.6	20								1.9									

*** Average of two samples**