

Benner Run Samples					Field Observations			ISCO Data - Estimated			Flow-Stage Rating Curves																	Event Duration
50					Post			ISCO - Est.			Log Flow=5.9597*Log Stage+1.4318																	Jones
					Chart			Manual			Jones - Est. Collect Time																	
Lab Code	Lab Log Date	Sample Name	Field Date	Arrival Time	Stage ft	Chart working?	Collect Date	Collect Time	Stage ft	Stage m	Flow (m <sup>3</sup> /s)	Flow (m <sup>3</sup> /s/km <sup>2</sup> )	pH	Cond uS/cm	ANC Ue/g/l	Cl mg/l	NO3-N mg/l	SO4 mgSo4/l	DOC mgC/l	DIC mgC/l	Ca mgCa/l	Mg mgMg/l	Na mgNa/l	K mgK/l	Al mgAl/l	Event Duration		
DJ 1	8/31/2005	BR #1	8/31/2005	13:20	1.210		8/30/2005	15:37	1.100	1.210	0.369	0.071	0.0062	6.02	25.80	46.60	4.48	0.135	3.13	2.46	0.771	1.63	0.59	2.04	0.90	0.036		
DJ 2	8/31/2005	BR #2	8/31/2005	13:20	1.210	Y	8/30/2005	22:37		1.120	0.342	0.045	0.0039	6.28	26.10	49.50	4.45	0.148	3.30	2.17	1.822	1.70	0.61	2.03	0.94	0.034		
DJ 3	8/31/2005	BR #13	8/31/2005	13:20	1.210	Y	8/31/2005	3:37		1.260	0.384	0.090	0.0079	6.42	28.00	88.70	2.95	0.152	4.24	4.08	1.229	2.25	0.86	1.63	1.01	0.080		
DJ 4	8/31/2005	BR #18	8/31/2005	13:20	1.210	Y	8/31/2005	8:37		1.355	0.413	0.139	0.0123	6.12	28.10	46.00	2.94	0.112	5.42	6.75	0.728	2.27	0.81	1.73	1.00	0.125		
DJ 5	8/31/2005	BR #23	8/31/2005	13:20	1.210	Y	8/31/2005	13:37	1.210	1.210	0.369	0.071	0.0062	6.04	29.30	37.60	2.39	0.108	6.53	7.41	0.605	2.34	0.84	1.67	1.02	0.125		
DJ 17	9/1/2005	BR #5	9/1/2005	19:08	1.080	Y	8/31/2005	14:37	1.210	1.259	0.384	0.090	0.0079	5.89	29.20	38.50	2.51	0.091	6.62	6.18	0.499	2.44	0.87	1.65	1.07	0.125		
DJ 18	9/1/2005	BR #15	9/1/2005	19:08	1.080	Y	9/1/2005	0:37		1.189	0.362	0.064	0.0056	5.98	29.20	37.30	2.95	0.082	6.17	5.36	0.590	2.24	0.82	1.68	1.10	0.120		
DJ 19	9/1/2005	BR #22	9/1/2005	19:08	1.080	Y	9/1/2005	7:37	> 1.08	1.135	0.346	0.048	0.0043	6.02	28.30	35.50	3.22	0.086	5.82	4.59	0.599	2.06	0.75	1.83	1.10	0.079		
DJ 21	10/10/2005	BR #1	10/8/2005	17:34	1.220	Y	10/8/2005	17:55	1.220	1.220	0.372	0.074	0.0066	6.24	37.55	16.90	2.33	0.052	8.86	7.11	1.27	2.50	0.94	0.99	0.92	0.240		
DJ 22	10/10/2005	BR #14	10/9/2005	16:46	1.100	Y	10/9/2005	8:55	> 1.10	1.243	0.375	0.076	0.0068	6.16	36.96	21.90	3.13	0.068	8.15	5.65	0.526	2.42	0.93	1.39	0.95	0.180		
DJ 28	10/25/2005	BR #1	10/23/2005	17:00	1.130	1.160	10/22/2005	16:06	1.140	1.140	0.347	0.050	0.0044	6.29	33.50	36.50	4.79	0.048	4.37	3.39	0.641	1.85	0.73	1.67	1.01	0.080		
DJ 29	10/25/2005	BR #2	10/23/2005	17:00	1.130	Y	10/22/2005	17:06		1.116	0.340	0.044	0.0039	6.35	33.80	35.40	4.88	0.052	4.49	3.18	0.618	1.88	0.74	1.68	1.00	0.081		
DJ 30	10/25/2005	BR #11	10/23/2005	17:00	1.130	Y	10/23/2005	2:06		1.181	0.360	0.061	0.0054	6.24	34.20	28.40	3.99	0.053	5.94	4.680	0.552	2.08	0.85	1.45	0.97	0.125		
DJ 31	10/25/2005	BR #24	10/23/2005	17:00	1.130	Y	10/23/2005	15:06		1.175	0.358	0.059	0.0052	6.19	34.20	27.90	3.66	0.040	6.33	4.22	0.529	2.11	0.84	1.43	0.91	0.120		
DJ 36	10/26/2005	BR #9	10/25/2005	16:42	1.310		10/24/2005	9:34		1.119	0.341	0.044	0.0039	6.46	34.60	31.70	3.68	0.068	6.22	3.67	0.675	2.09	0.83	1.36	0.89	0.092		
DJ 37	10/26/2005	BR #22	10/25/2005	16:42	1.310	1.340	10/25/2005	16:29		1.285	0.392	0.102	0.0081	6.22	33.90	16.20	2.59	0.055	7.40	5.08	0.456	2.12	0.89	1.01	0.75	0.165		
DJ 40	10/28/2005	BR #3	10/27/2005	15:14	1.280	Y	10/26/2005	17:10		1.325	0.404	0.122	0.0107	5.17	33.70	12.20	1.90	0.057	6.96	6.04	0.499	2.14	0.90	0.82	0.67	0.175		
DJ 41	10/28/2005	BR #4	10/27/2005	15:14	1.280	Y	10/27/2005	1:10		1.345	0.410	0.133	0.0117	5.22	33.40	10.20	1.84	0.046	9.99	5.74	0.476	2.07	0.89	0.82	0.65	0.175		
DJ 42	10/28/2005	BR #6	10/27/2005	15:14	1.280	Y	10/27/2005	17:10		1.363	0.415	0.144	0.0127	5.29	32.00	11.50	1.90	0.050	6.86	4.71	0.426	2.01	0.86	0.81	0.65	0.165		
DJ 46	11/4/2005	BR #11	11/4/2005	16:06	1.230	1.260	10/29/2005	9:10		1.245	0.378	0.094	0.0074	5.73	29.60	15.40	3.50	0.133	4.75	2.39	0.363	1.56	0.66	1.28	0.74	0.083		
DJ 47	11/4/2005	BR #21	11/4/2005	16:06	1.230		11/1/2005	17:10		1.205	0.367	0.069	0.0061	5.76	29.20	14.90	3.25	0.105	4.73	2.3	0.324	1.57	0.66	1.23	0.71	0.081		
DJ 54	11/15/2005	BR #1	11/15/2005	13:32	1.410		11/15/2005	6:32	1.410	1.410	0.430	0.176	0.0155	5.87	34.93	23.10	5.03	0.203	4.15	1.94	0.448	1.75	0.71	1.75	0.90	0.031		
DJ 55	11/15/2005	BR #3	11/15/2005	13:32	1.410	1.370	11/15/2005	13:32	1.410	1.410	0.430	0.176	0.0155	5.74	33.18	15.80	3.18	0.112	5.88	4.01	0.365	1.83	0.80	1.27	0.81	0.083		
DJ 59	11/17/2005	BR #5	11/17/2005	13:08	1.340	1.385	11/15/2005	19:10		1.361	0.418	0.143	0.0126	5.11	32.24	13.90	2.88	0.108	6.12	3.26	0.401	1.88	0.79	1.11	0.76	0.051		
DJ 60	11/17/2005	BR #6	11/17/2005	13:08	1.340		11/15/2005	23:10		1.354	0.413	0.138	0.0122	5.29	31.67	14.20	3.28	0.109	5.67	2.67	0.394	1.93	0.77	1.21	0.77	0.086		
DJ 61	11/17/2005	BR #9	11/17/2005	13:08	1.340		11/16/2005	11:10		1.318	0.402	0.118	0.0104	5.29	31.16	7.12	2.46	0.077	6.36	3.72	0.418	1.79	0.80	0.91	0.68	0.063		
DJ 70	11/19/2005	BR #16	11/19/2005	15:43	1.350	1.350	11/17/2005	15:10		1.376	0.419	0.152	0.0134	5.21	29.77	9.43	3.59	0.100	4.95	1.55	0.373	1.56	0.68	1.28	0.73	0.052		
DJ 71	11/19/2005	BR #21	11/19/2005	15:43	1.350		11/19/2005	14:00		1.342	0.402	0.131	0.0115	5.36	29.63	11.00	3.60	0.121	4.68	1.31	0.402	1.48	0.65	1.33	0.76	0.044		
DJ 72	3/13/2006	BR #1	3/3/2006	12:02	1.420	1.415	3/3/2006	12:07	1.420	1.420	0.433	0.184	0.0162	5.55	26.70	4.05	2.24	0.106	5.41	2.19	0.173	1.60	0.68	1.07	0.68	0.071		
DJ 74	3/14/2006	BR #1	3/14/2006	12:15	1.390	1.405	3/14/2006	12:20	1.390	1.390	0.424	0.162	0.0143	5.56	26.10	3.26	2.15	0.088	5.38	1.90	0.144	1.53	0.65	1.03	0.66	0.071		
DJ 76	4/4/2006	BR #1	4/4/2006	12:38	1.335	1.360	4/4/2006	12:45	1.335	1.335	0.407	0.127	0.0112	5.69	28.28	4.52	0.72	<0.12	8.24	1.16	0.295	1.64	0.70	0.44	0.49	0.160		
DJ 78	4/24/2006	BR #1	4/24/2006	12:24	1.390	1.400	4/24/2006	12:37	1.390	1.390	0.424	0.162	0.0143	6.46	25.67	14.10	2.44	0.066	5.08	1.12	0.260	1.51	0.63	1.07	0.69	0.057		
DJ 85	5/13/2006	BR #1	5/13/2006	16:30	1.380	1.400	5/13/2006	16:40	1.380	1.380	0.421	0.155	0.0137	5.91	26.43	7.82	2.84	0.065	7.87	1.21	0.301	1.46	0.61	1.36	0.83	0.047		
DJ 89	5/16/2006	BR #1	5/16/2006	11:05	1.420	1.420	5/16/2006	1:00	1.430	1.430	0.436	0.192	0.0169	6.22	26.32	7.67	2.78	0.076	4.72	1.36	0.327	1.44	0.60	1.39	0.90	0.058		
DJ 90	5/16/2006	BR #2	5/16/2006	11:05	1.420	1.420	5/16/2006	11:25	1.420	1.420	0.433	0.184	0.0162	6.16	25.56	8.64	2.69	0.069	4.80	1.10	0.391	1.45	0.60	1.46	0.94	0.045		
DJ 92	6/27/2006	BR #1	6/27/2006	12:02	1.430	1.360	6/27/2006	12:10	1.430	1.430	0.436	0.192	0.0169	6.22	24.29	6.55	1.93	0.051	5.53	4.01	0.376	1.58	0.68	0.96	0.64	0.044		
DJ 93	6/27/2006	BR #2	6/27/2006	17:05	1.900	1.690	6/27/2006	17:25	1.900	1.900	0.579	0.192	0.0219	5.36	23.90	0.55	1.14	0.035	5.18	10.60	0.548	1.65	0.68	0.73	0.58	0.310		
DJ 96	6/28/2006	BR #1	6/28/2006	16:37	1.520	1.440	6/27/2006	14:33	1.690	1.690	0.515	0.159	0.0457	5.68	22.39	26.40	1.55	0.050	4.78	6.03	0.614	1.79	0.76	0.83	0.64	0.120		
DJ 97	6/28/2006	BR #2	6/28/2006	16:37	1.520	1.440	6/27/2006	18:33	1.940	1.940	0.591	0.180	0.041	5.32	23.81	0.66	1.04	0.034	5.22	10.2	0.559	1.63	0.68	0.71	0.62	0.340		
DJ 98	6/28/2006	BR #3	6/28/2006	16:37	1.520	1.440	6/27/2006	22:33	1.540	1.540	0.469	0.298	0.0263	5.01	22.71	-2.42	1.11	0.034	5.43	8.35	0.453	1.58	0.66	0.75	0.67	0.340		
DJ 99	6/28/2006	BR #4	6/28/2006	16:37	1.520	1.440	6/28/2006	16:52	1.520	1.520	0.463	0.276	0.0243	5.39	22.61	-0.14	1.75	0.048	5.47	3.43	0.381	1.46	0.63	0.92	0.73	0.105		
DJ 102	8/29/2006	BR #1	8/29/2006	18:18	1.580	1.550	8/27/2006	23:30	1.770	1.770	0.539	0.683	0.0602	6.54	31.71	49.80	2.31	0.142	6.04	6.10	0.764	2.61	0.95	1.22	0.87	0.120		
DJ 103	8/29/2006	BR #2	8/29/2006	18:18	1.580	1.550	8/28/2006	3:30	1.770	1.770	0.539	0.683	0.0602	5.57	28.78	-4.01	1.87	0.084	6.46	9.02	0.404	2.20	0.78	1.07	0.69	0.260		
DJ 104	8/29/2006	BR #3	8/29/2006	18:18	1.																							