

APPENDIX H

Water Quantity and Quality Database

Rain Start	QA	Rain Stop	QA	Rain Total	Rain Duration	Rain Average	Rain Max	Rain Dry Period	Flow Start BP Flow datetime	Flow Start FM Flow datetime	Flow Stop BP Flow datetime	Flow Stop FM Flow datetime	Flow Duration	Flow Duration	Flow Average	Flow Average	Flow Max	Flow Max	Flow Volume	QA				
				RG	RG	RG	RG	RG					RG	BP Flow	FM Flow	BP Flow	FM Flow	BP Flow	FM Flow		BP Flow	FM Flow	BP Flow	FM Flow
				in	hr	in/hr	in/5min	hr					hour	hour	gpm	gpm	gpm	gpm	gpm		gpm	gpm	gal	
1/6/2013 17:10		1/7/2013 8:40		0.47	15.5	0.03	0.01	20.1	1/6/2013 17:10	1/6/2013 17:10	1/7/2013 13:40	1/7/2013 9:15	0.1	9.4	0.027	1.7719	0.027	6.048	0.135					
1/8/2013 7:35		1/9/2013 2:10		1.42	18.6	0.076	0.04	24.3	1/8/2013 7:30	1/8/2013 7:30	1/9/2013 1:10	1/9/2013 8:10	1.2	20.6	4.9089	11.3975	11.904	59.761	368.17					
1/10/2013 4:15		1/10/2013 9:45		0.15	5.5	0.027	0.01	27.2	12:00:00 AM	1/10/2013 4:10	12:00:00 AM	1/10/2013 9:05	0	1	0	2.455	0	4.142	0					
1/23/2013 9:30		1/23/2013 21:10		0.62	11.7	0.053	0.02	312.6	12:00:00 AM	1/23/2013 9:25	12:00:00 AM	1/23/2013 18:25	0	8	0	4.3861	0	10.622	0					
1/24/2013 16:50		1/25/2013 2:15		0.2	9.4	0.021	0.01	23.2	1/24/2013 16:50	1/24/2013 16:50	1/25/2013 5:40	1/24/2013 22:15	0.2	2.7	0.0127	3.611	0.016	13.681	0.19					
1/26/2013 5:20		1/26/2013 19:45		0.45	14.4	0.031	0.01	31.7	1/26/2013 5:15	1/26/2013 5:15	1/26/2013 14:45	1/26/2013 17:35	0.2	7.4	0.008	5.8233	0.011	21.814	0.08					
1/27/2013 11:55		1/28/2013 2:25		0.14	14.5	0.01	0.01	19.8	1/27/2013 11:55	1/27/2013 11:55	1/27/2013 21:30	1/28/2013 2:35	0.3	1.6	0.0325	0.8239	0.065	1.824	0.65					
1/28/2013 8:55		1/28/2013 16:45		0.18	7.8	0.023	0.01	12.2	12:00:00 AM	1/28/2013 8:55	12:00:00 AM	1/28/2013 17:35	0	3.9	0	2.6505	0	6.843	0					
1/29/2013 15:15		1/30/2013 1:45		0.21	10.5	0.02	0.01	24.2	1/29/2013 15:15	1/29/2013 15:15	1/29/2013 18:40	1/30/2013 1:25	0.1	4	0.005	6.2822	0.005	18.244	0.025					
1/31/2013 0:40		1/31/2013 2:25		0.03	1.8	0.017	0.01	28.8	1/31/2013 0:40	1/31/2013 0:40	1/31/2013 5:50	1/31/2013 2:25	0.1	0.3	0.016	1.3422	0.016	2.399	0.08					
1/31/2013 9:40		1/31/2013 16:00		0.08	6.3	0.013	0.01	37.8	1/31/2013 9:40	1/31/2013 9:40	1/31/2013 20:30	1/31/2013 14:35	0.1	1.2	0.011	1.5999	0.011	4.098	0.055					
2/3/2013 15:45		2/3/2013 21:00		0.15	5.2	0.029	0.01	73.9	2/3/2013 15:40	2/3/2013 15:40	2/4/2013 1:05	2/3/2013 21:10	0.1	2.4	0.038	1.2258	0.038	2.782	0.19					
2/5/2013 17:55		2/5/2013 22:35		0.08	4.7	0.017	0.01	46	2/5/2013 17:55	2/5/2013 17:55	2/5/2013 22:50	2/5/2013 18:55	0.2	0.4	0.0197	0.8432	0.038	2.266	0.295					
2/7/2013 2:20		2/7/2013 3:25		0.07	1.1	0.065	0.01	8.8	12:00:00 AM	2/7/2013 2:15	12:00:00 AM	2/7/2013 3:50	0	1.2	0	4.0487	0	8.92	0					
2/9/2013 1:05		2/9/2013 9:00		0.04	7.9	0.005	0.01	46.2	2/9/2013 1:05	12:00:00 AM	2/9/2013 12:10	12:00:00 AM	0.2	0	0.0107	0	0.016	0	0.16					
2/14/2013 4:25		2/14/2013 8:15		0.13	3.8	0.034	0.01	169.5	2/14/2013 4:25	2/14/2013 4:25	2/14/2013 12:45	2/14/2013 7:10	0.2	1.5	0.0123	1.6558	0.016	3.203	0.185					
2/16/2013 4:05		2/16/2013 6:00		0.07	1.9	0.037	0.01	45.9	12:00:00 AM	2/16/2013 4:05	12:00:00 AM	2/16/2013 5:20	0	0.7	0	3.127	0	6.133	0					
2/22/2013 1:45		2/22/2013 15:25		0.44	13.7	0.032	0.01	17.9	2/22/2013 1:45	2/22/2013 1:45	2/22/2013 17:05	2/22/2013 15:40	0.2	7.2	0.0105	5.1112	0.016	13.205	0.105					
2/24/2013 23:20		2/25/2013 11:10		0.52	11.8	0.044	0.02	57.1	2/24/2013 23:15	2/24/2013 23:15	2/25/2013 17:00	2/25/2013 12:05	0.1	7.1	0.005	8.5571	0.005	47.376	0.025					
2/28/2013 8:20		3/1/2013 11:50		0.55	27.5	0.02	0.01	31.3	2/28/2013 8:15	2/28/2013 8:15	3/1/2013 12:25	3/1/2013 10:35	1	14.4	0.012	3.9919	0.038	13.035	0.72					
3/2/2013 13:45		3/2/2013 22:05		0.32	8.3	0.038	0.03	30.9	3/2/2013 13:45	3/2/2013 13:45	3/3/2013 0:05	3/2/2013 23:00	0.4	5.6	0.0116	9.5377	0.016	49.482	0.29					
3/6/2013 10:45		3/7/2013 10:10		0.44	23.4	0.019	0.01	87.3	3/6/2013 10:45	3/6/2013 10:45	3/7/2013 13:30	3/7/2013 6:50	1.6	9.4	0.0244	3.3482	0.185	10.455	2.32					
3/12/2013 6:45		3/13/2013 5:30		0.56	22.8	0.025	0.01	6.9	3/12/2013 6:40	3/12/2013 6:40	3/13/2013 11:00	3/13/2013 3:30	3.6	8.6	0.0222	7.25	0.06	25.658	4.765					
3/13/2013 13:20		3/13/2013 19:40		0.17	6.3	0.027	0.01	11.2	3/13/2013 13:20	3/13/2013 13:20	3/14/2013 1:35	3/13/2013 20:25	2.3	4.6	0.0284	3.8543	0.071	11.946	3.97					
3/14/2013 9:15		3/14/2013 23:55		0.2	14.7	0.014	0.01	14.6	3/14/2013 9:15	3/14/2013 9:15	3/15/2013 5:50	3/14/2013 23:25	3.2	2.8	0.0215	4.7162	0.06	13.201	4.19					
3/15/2013 18:15		3/16/2013 5:25		0.38	11.2	0.034	0.06	23.2	3/15/2013 18:15	3/15/2013 18:15	3/16/2013 11:20	3/16/2013 6:15	2.3	3.3	0.0311	16.1452	0.087	71.268	4.36					
3/16/2013 11:30		3/16/2013 20:20		0.28	8.8	0.032	0.02	10.2	3/16/2013 11:30	3/16/2013 11:30	3/17/2013 0:30	3/17/2013 2:15	0.9	4.6	0.0225	10.0803	0.06	33.792	1.24					
3/18/2013 0:10		3/18/2013 8:30		0.15	8.3	0.018	0.01	33.8	3/18/2013 0:05	3/18/2013 0:05	3/18/2013 12:25	3/18/2013 4:15	0.5	1.6	0.0252	2.1641	0.076	4.612	0.755					
3/19/2013 17:00		3/20/2013 13:20		0.5	20.3	0.025	0.04	37.5	3/19/2013 16:55	3/19/2013 16:55	3/20/2013 18:30	3/20/2013 14:05	4.9	4.6	0.4873	11.9986	17.805	41.806	143.74					
3/21/2013 16:25		3/22/2013 1:15		0.19	8.8	0.022	0.02	29.7	3/21/2013 16:25	3/21/2013 16:25	3/22/2013 1:15	3/22/2013 1:10	0.8	1.2	0.0116	9.1536	0.049	27.608	0.58					
4/4/2013 10:45		4/4/2013 19:30		0.31	8.8	0.035	0.01	322.4	4/4/2013 10:45	4/4/2013 10:45	4/4/2013 23:35	4/4/2013 13:10	2.2	0.5	0.021	3.5352	0.071	6.62	2.735					
4/5/2013 3:20		4/5/2013 11:35		0.47	8.2	0.057	0.02	9.2	4/5/2013 3:20	4/5/2013 3:20	4/5/2013 13:40	4/5/2013 7:25	2.8	3.3	0.0274	15.7566	0.104	28.012	4.65					
4/5/2013 18:25		4/6/2013 4:55		0.3	10.5	0.029	0.03	11.3	4/5/2013 18:20	4/5/2013 18:20	4/6/2013 10:35	4/6/2013 5:15	3.7	2	0.0209	16.2459	0.06	52.007	4.595					
4/6/2013 17:25		4/7/2013 12:10		1.38	18.8	0.074	0.04	12.6	4/6/2013 17:20	4/6/2013 17:20	4/7/2013 16:10	4/7/2013 17:05	5.2	14.3	1.9931	16.8504	29.89	51.762	617.86					
4/10/2013 5:20		4/10/2013 11:15		0.4	5.9	0.068	0.02	65.8	4/10/2013 5:15	4/10/2013 5:15	4/10/2013 16:20	4/10/2013 11:40	1.3	3.9	0.0219	9.4024	0.071	31.488	1.755					
4/12/2013 11:20		4/12/2013 21:40		0.25	10.3	0.024	0.01	48.2	12:00:00 AM	4/12/2013 11:15	12:00:00 AM	4/12/2013 21:50	0	2.2	0	2.3856	0	7.963	0					
4/13/2013 8:00		4/13/2013 10:30		0.19	2.5	0.076	0.02	11.3	12:00:00 AM	4/13/2013 7:55	12:00:00 AM	4/13/2013 10:55	0	2.5	0	6.5028	0	22.526	0					
4/18/2013 13:20		4/19/2013 12:20		0.61	23	0.027	0.01	11.8	12:00:00 AM	4/18/2013 13:20	12:00:00 AM	4/19/2013 12:30	0	8.1	0	5.3639	0	23.039	0					
4/21/2013 4:40		4/21/2013 15:50		0.37	11.2	0.033	0.01	13	12:00:00 AM	4/21/2013 4:35	12:00:00 AM	4/21/2013 12:10	0	5.6	0	6.0853	0	18.39	0					
4/27/2013 10:35		4/27/2013 18:00		0.19	7.4	0.026	0.02	144.2	12:00:00 AM	4/27/2013 10:30	12:00:00 AM	4/27/2013 15:50	0	2.3	0	4.6439	0	24.146	0					
4/28/2013 20:35		4/29/2013 4:30		0.18	7.9	0.023	0.02	31	12:00:00 AM	4/28/2013 20:35	12:00:00 AM	4/29/2013 7:25	0	1.7	0	4.4481	0	24.252	0					
5/11/2013 22:20		5/12/2013 8:50		0.7	10.5	0.067	0.06	310.3	5/11/2013 22:20	5/11/2013 22:20	5/12/2013 3:35	5/12/2013 14:45	0.2	6.6	5.1755	14.9109	7.741	151.189	51.755					
5/13/2013 13:45		5/13/2013 16:20		0.27	2.6	0.105	0.08	32.2	12:00:00 AM	5/13/2013 13:45	12:00:00 AM	5/13/2013 21:05	0	3.3	0	11.8052	0	89.746	0					
5/17/2013 12:50		5/18/2013 6:40		0.27	17.8	0.015	0.01	34.4	12:00:00 AM	5/17/2013 12:45	12:00:00 AM	5/18/2013 7:20	0	4.5	0	1.594	0	10.273	0					
5/21/2013		5/21/2013 13:55		0.85	13.9	0.061	0.03	66.9	12:00:00 AM	5/20/2013 23:55	12:00:00 AM	5/21/2013 18:30	0	9.8	0	9.3231	0	59.833	0					
5/22/2013 18:55		5/22/2013 22:25		0.26	3.5	0.074	0.02	30.4	12:00:00 AM	5/22/2013 18:50	12:00:00 AM	5/23/2013 1:50	0	3.4	0	6.1701	0	25.917	0					
5/23/2013 10:05		5/23/2013 15:30		0.05	5.4	0.009	0.01	12.8	12:00:00 AM	5/23/2013 10:05	12:00:00 AM	5/23/2013 15:50	0	0.5	0	2.8353	0	5.316	0					
5/26/2013 3:15		5/26/2013 13:05		0.58	9.8	0.059	0.01	60	12:00:00 AM	5/26/2013 3:15	12:00:00 AM	5/26/2013 18:35	0	8.7	0	3.936	0	15.934	0					
5/27/2013 11:25		5/27/2013 21:05		0.14	9.7	0.014	0.01	23.3	12:00:00 AM	5/27/2013 11:20	12:00:00 AM	5/27/2013 21:20	0	1.5	0	1.6905	0	6.224	0					
5/29/2013 7:20		5/29/2013 14:15		0.06	6.9	0.009	0.01	37.5	12:00:00 AM	5/29/2013 7:20	12:00:00 AM	5/29/2013 11:05	0	0.1	0	0.628	0	0.628	0					
5/30/2013 1:50		5/30/2013 5:10		0.07	3.3	0.02																		

Rain Start	QA	Rain Stop	QA	QA	Zinc Total	Zinc Dissolved	Zinc Total	Zinc Dissolved	Phosphorus	Phosphorus	Ortho-phosphorus	Ortho-phosphorus	Hardness	Hardness	Total Suspended Solids	Total Suspended Solids	pH	QA					
					In Samples mg/L	In Samples mg/L	Out Sample mg/L	Out Sample mg/L	In Samples mg/L	Out Sample mg/L	In Samples mg/L	Out Sample mg/L	In Samples mg/L	Out Sample mg/L	In Samples mg/L	Out Sample mg/L	In Samples mg/L		Out Sample mg/L	In Samples pH units			
1/6/2013 17:10		1/7/2013 8:40																					
1/8/2013 7:35		1/9/2013 2:10			0.013	0.008	0.005	U	0.005	U	0.084	0.034	0.018	0.011	15.8	19.7	30	7					
1/10/2013 4:15		1/10/2013 9:45																					
1/23/2013 9:30		1/23/2013 21:10			0.005	0.005	U	0.005	U	0.005	U	0.047	0.035	0.01	0.01	15.1	17.2	14	4.7				
1/24/2013 16:50		1/25/2013 2:15			0.005	U	0.005	U	0.005	U	0.039	0.028	0.008	0.009	16	20.3	12	3					
1/26/2013 5:20		1/26/2013 19:45			0.005	U	0.005	U	0.005	U	0.031	0.022	0.009	0.008	16.8	19.5	9.5	2.7					
1/27/2013 11:55		1/28/2013 2:25																					
1/28/2013 8:55		1/28/2013 16:45			0.009	0.005	U	0.005	U	0.005	U	0.329	0.06	0.011	0.11	23.1	30.5	107	5				
1/29/2013 15:15		1/30/2013 1:45			0.017	0.005	U	0.005	U	0.005	U	0.169	0.02	0.008	0.009	18.4	28.9	86	3				
1/31/2013 0:40		1/31/2013 2:25																					
1/31/2013 9:40		1/31/2013 16:00																					
2/3/2013 15:45		2/3/2013 21:00																					
2/5/2013 17:55		2/5/2013 22:35																					
2/7/2013 2:20		2/7/2013 3:25																					
2/9/2013 1:05		2/9/2013 9:00																					
2/14/2013 4:25		2/14/2013 8:15																					
2/16/2013 4:05		2/16/2013 6:00																					
2/22/2013 1:45		2/22/2013 15:25			0.011	0.005	U	0.005	U	0.005	U	0.105	0.057	0.011	J	0.01	J	14.7	15.6	26	2.5		
2/24/2013 23:20		2/25/2013 11:10			0.022	0.005	U	0.005	U	0.005	U	0.126	0.04	0.012		0.009		15.2	19.9	55	5		
2/28/2013 8:20		3/1/2013 11:50			0.025	J	0.005	U	0.006		0.005	U	0.088	0.029	0.006	J	0.006	J	17.4	20.7	56	J	3
3/2/2013 13:45		3/2/2013 22:05																					
3/6/2013 10:45		3/7/2013 10:10			0.005	U	0.005	U	0.005	U	0.005	U	0.041	0.023	0.009	J	0.007		17.4	19	7.5	J	1.8
3/12/2013 6:45		3/13/2013 5:30			0.011	0.005	U	0.005	U	0.005	U	0.09	0.025	0.007		0.006		15.3	17.2	60	3.7		
3/13/2013 13:20		3/13/2013 19:40																					
3/14/2013 9:15		3/14/2013 23:55			0.012	0.005	U	0.005	U	0.005	U	0.146	0.025	0.005	J	0.005	J	17.4	19.5	73	2.3	7.02	J
3/15/2013 18:15		3/16/2013 5:25																					
3/16/2013 11:30		3/16/2013 20:20			0.005	0.005	U	0.005	U	0.005	U	0.061	0.025	0.007		0.006		15.2	18.2	30	1.8	6.97	
3/18/2013 0:10		3/18/2013 8:30																					
3/19/2013 17:00		3/20/2013 13:20			0.005	U	0.005	U	0.005	U	0.127	0.032	0.008	0.007	12.7	16.4	49	5.3	6.4				
3/21/2013 16:25		3/22/2013 1:15																					
4/4/2013 10:45		4/4/2013 19:30																					
4/5/2013 3:20		4/5/2013 11:35			0.005	U	0.005	U	0.005	U	0.175	0.051	0.011	J	0.011	J	12.7	15.2	80	5			
4/5/2013 18:25		4/6/2013 4:55			0.005	U	0.005	U	0.005	U	0.524	0.05	0.012		0.009		11.7	14	70	9.5			
4/6/2013 17:25		4/7/2013 12:10																					
4/10/2013 5:20		4/10/2013 11:15			0.005	U	0.005	U	0.005	U	0.044	0.133	0.013		0.014		15.7	18.8	38	4.8			
4/12/2013 11:20		4/12/2013 21:40																					
4/13/2013 8:00		4/13/2013 10:30																					
4/18/2013 13:20		4/19/2013 12:20																					
4/21/2013 4:40		4/21/2013 15:50																					
4/27/2013 10:35		4/27/2013 18:00																					
4/28/2013 20:35		4/29/2013 4:30																					
5/11/2013 22:20		5/12/2013 8:50									0.293	0.09					138	47					
5/13/2013 13:45		5/13/2013 16:20																					
5/17/2013 12:50		5/18/2013 6:40																					
5/21/2013		5/21/2013 13:55									0.069	0.032	0.012	0.012			30	5.3					
5/22/2013 18:55		5/22/2013 22:25									0.239	0.033	0.011	0.013			122	6.8					
5/23/2013 10:05		5/23/2013 15:30																					
5/26/2013 3:15		5/26/2013 13:05																					
5/27/2013 11:25		5/27/2013 21:05																					
5/29/2013 7:20		5/29/2013 14:15																					
5/30/2013 1:50		5/30/2013 5:10																					
6/12/2013 2:20		6/12/2013 5:30																					
6/12/2013 12:35		6/12/2013 16:30									0.084	0.056	0.001	0.022			30	2.8					
6/16/2013 17:45		6/16/2013 18:50																					
6/17/2013 22:50		6/17/2013 22:55																					
6/19/2013 23:50		6/20/2013 18:35									0.062	0.048	0.02	0.028			25	3					
6/23/2013 19:20		6/24/2013 12:20																					
6/25/2013 5:10		6/25/2013 14:25																					
6/27/2013 5:30		6/27/2013 11:00																					

Rain Start	QA	Rain Stop	QA	pH	QA	Conductivity	QA	Conductivity	QA	Turbidity	QA	Turbidity	QA	Sediment	QA	Sediment	QA	Sediment	QA	Sediment	QA	Sediment	QA	Sediment	QA
				Out Sample pH units		In Samples uS/cm		Out Sample uS/cm		In Samples NTU		Out Sample NTU		In Samples mg/L		Out Sample mg/L		In Samples mg/L		Out Sample mg/L		In Samples mg/L		Out Sample mg/L	
1/6/2013 17:10		1/7/2013 8:40																							
1/8/2013 7:35		1/9/2013 2:10												3.56		7.44		17.56		0		0		11.21	8.47
1/10/2013 4:15		1/10/2013 9:45																							
1/23/2013 9:30		1/23/2013 21:10												4.31		5.3		0		0		1.33		0.21	2.04
1/24/2013 16:50		1/25/2013 2:15																							
1/26/2013 5:20		1/26/2013 19:45																							
1/27/2013 11:55		1/28/2013 2:25																							
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1/29/2013 15:15		1/30/2013 1:45																							
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2/3/2013 15:45		2/3/2013 21:00																							
2/5/2013 17:55		2/5/2013 22:35																							
2/7/2013 2:20		2/7/2013 3:25																							
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