

Model Statistics, Data, and Plots

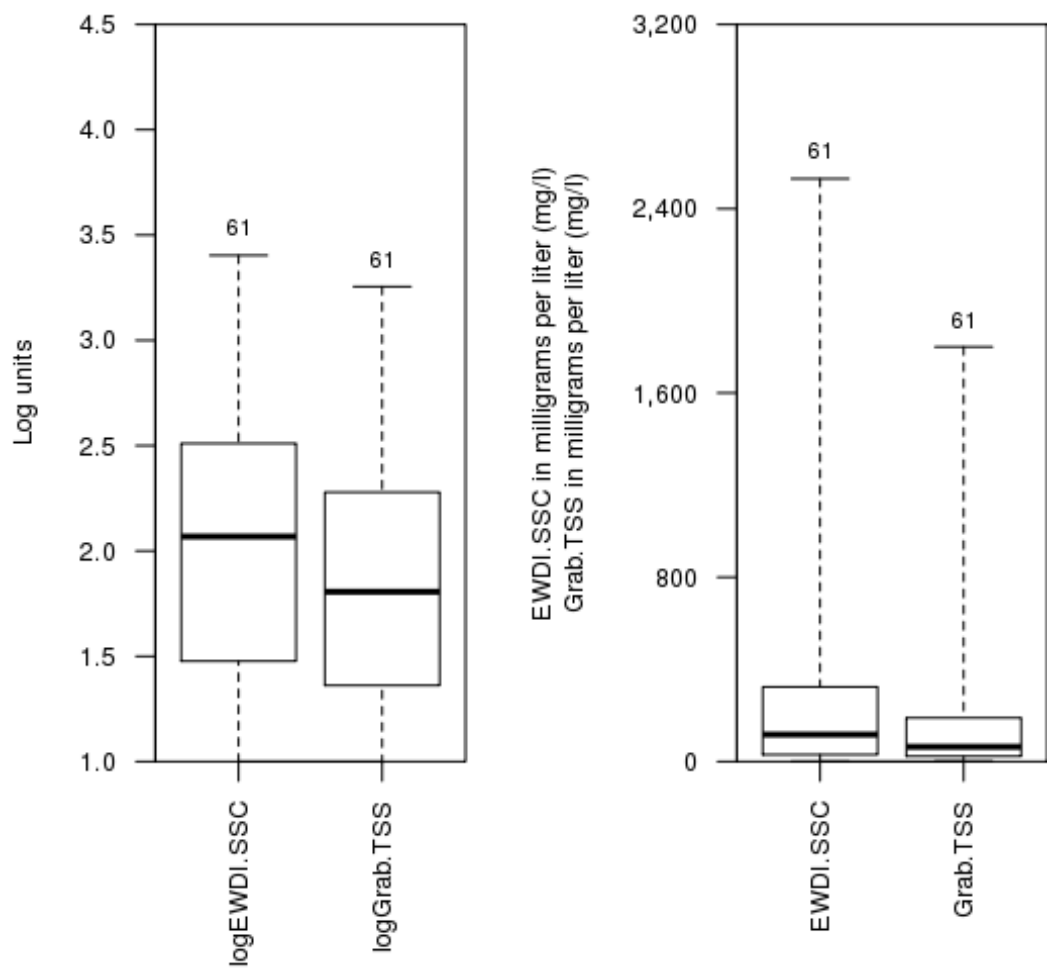
Model

$\text{logEWDI.SSC} = + 0.999 * \text{logGrab.TSS} + 0.21$

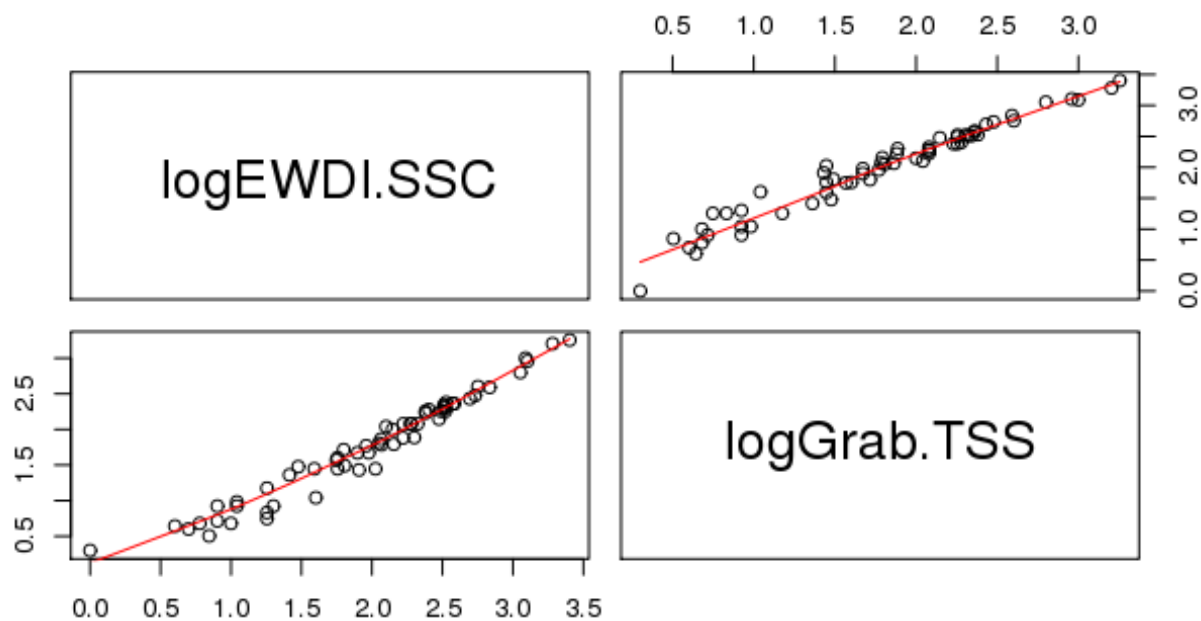
Variable Summary Statistics

	logEWDI.SSC	EWDI.SSC	logGrab.TSS	Grab.TSS
Minimum	0.00	1	0.301	2
1st Quartile	1.48	30	1.360	23
Median	2.07	117	1.810	64
Mean	1.98	279	1.770	186
3rd Quartile	2.51	324	2.280	190
Maximum	3.40	2530	3.260	1800

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	61
Standard error (RMSE)	0.149
Average Model standard percentage error (MSPE)	35
Coefficient of determination (R^2)	0.959
Adjusted Coefficient of Determination (Adj. R^2)	0.958
Bias Correction Factor (BCF)	1.06

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	0.210	0.0513	4.09	1.30e-04
logGrab.TSS	0.999	0.0269	37.10	1.33e-42

Correlation Matrix

	Intercept	E.vars
Intercept	1.000	-0.928
E.vars	-0.928	1.000

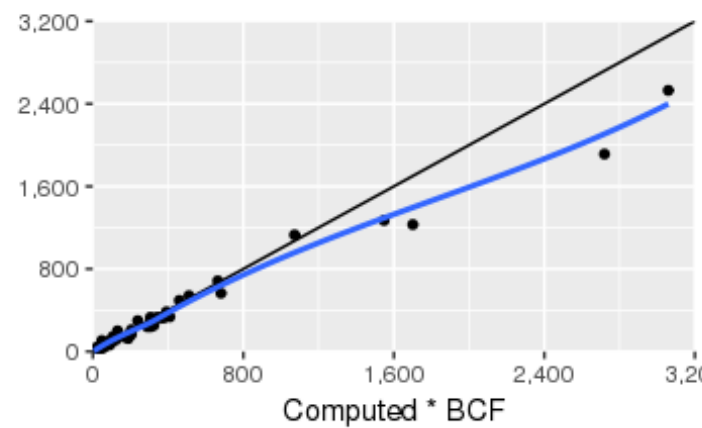
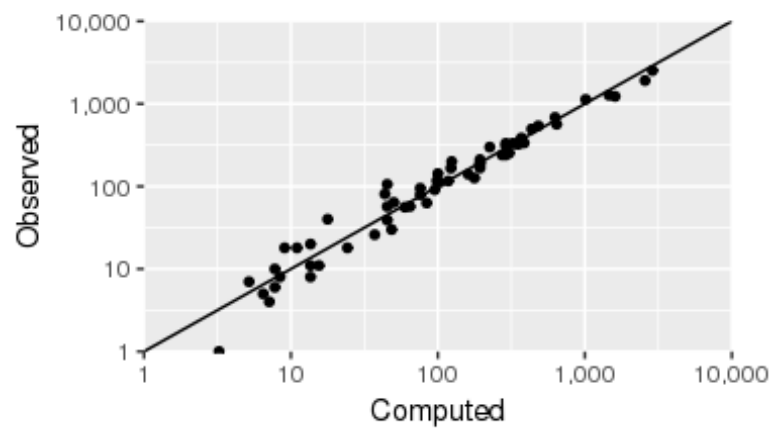
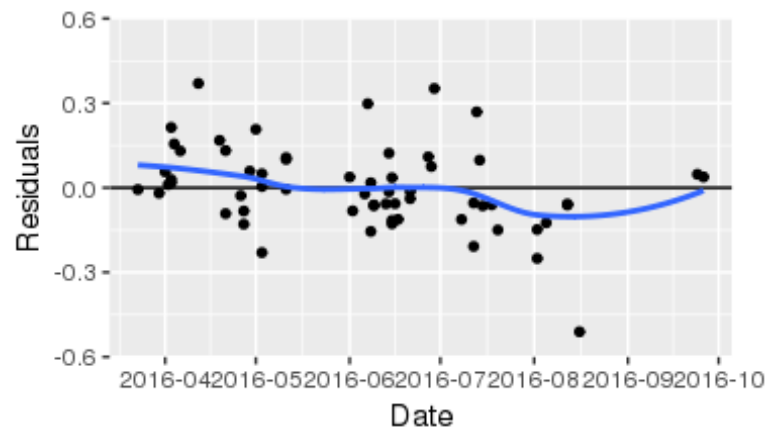
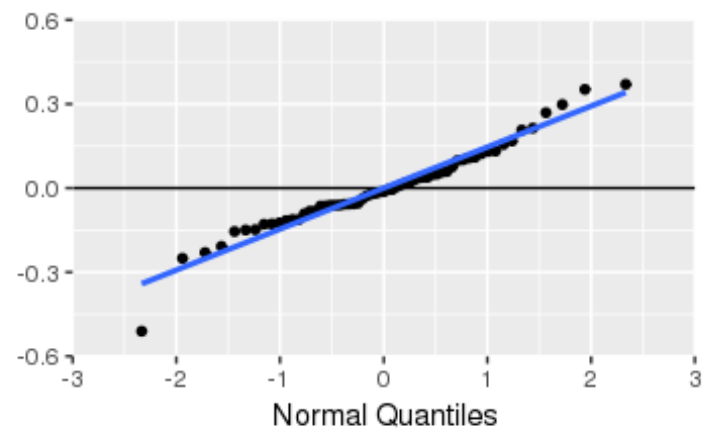
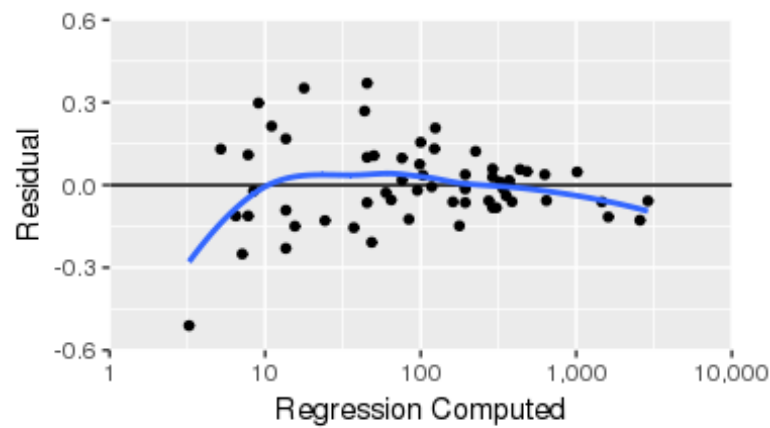
Outlier Test Criteria

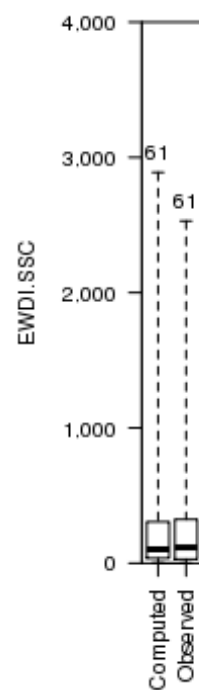
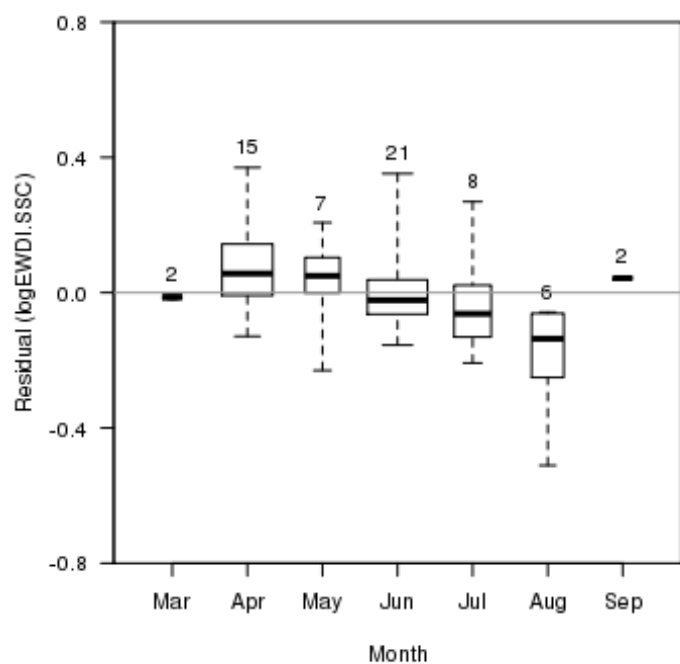
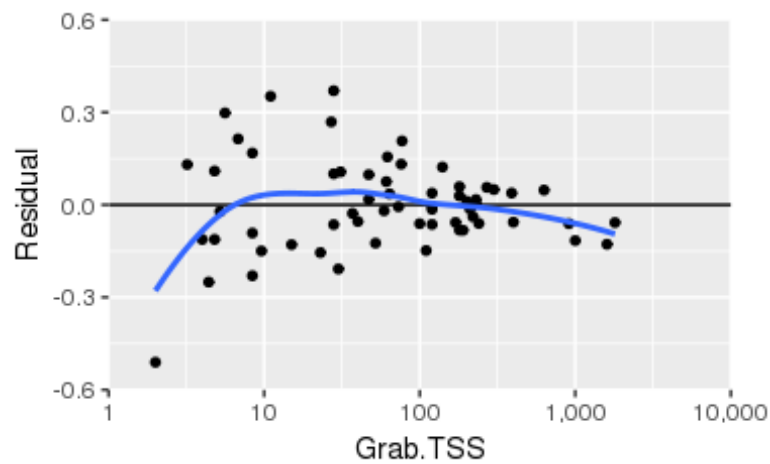
Leverage	Cook's D	DFFITS
0.0492	0.1055	0.2561

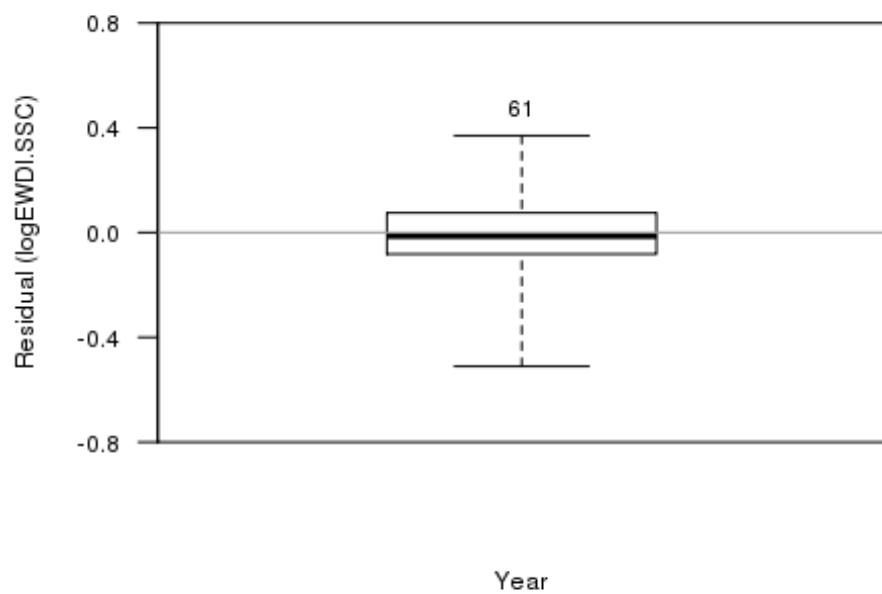
Flagged Observations

	logEWDI.SSC	Estimate	Residual	Standard	Residual	Studentized	Residual	Leverage	Cook's D	DFFITS
6/7/2016 10:50	1.260	0.957	0.2980		2.050		2.110	0.0504	0.112000	0.4860
8/16/2016 9:40	0.000	0.511	-0.5110		-3.580		-4.020	0.0867	0.610000	-1.2400
4/6/2016 15:35	0.845	0.715	0.1310		0.907		0.906	0.0685	0.030300	0.2460
5/3/2016 17:30	0.903	1.130	-0.2300		-1.570		-1.590	0.0397	0.051200	-0.3240
8/2/2016 10:35	0.602	0.853	-0.2510		-1.730		-1.760	0.0577	0.091800	-0.4360
4/3/2016 15:35	1.260	1.040	0.2140		1.470		1.480	0.0450	0.050800	0.3220
6/6/2016 13:05	0.903	0.925	-0.0220		-0.152		-0.150	0.0526	0.000637	-0.0354
6/17/2016 11:40	0.778	0.890	-0.1120		-0.774		-0.772	0.0550	0.017500	-0.1860
6/27/2016 14:05	1.000	0.890	0.1100		0.756		0.754	0.0550	0.016700	0.1820
7/8/2016 12:15	0.699	0.811	-0.1120		-0.777		-0.775	0.0608	0.019600	-0.1970
6/29/2016 9:40	1.600	1.250	0.3520		2.400		2.510	0.0337	0.101000	0.4680
6/15/2016 17:35	3.090	3.210	-0.1160		-0.804		-0.802	0.0657	0.022700	-0.2130
4/12/2016 12:05	2.030	1.660	0.3700		2.510		2.630	0.0198	0.063500	0.3740
8/11/2016 19:50	3.400	3.460	-0.0576		-0.405		-0.402	0.0882	0.007930	-0.1250
8/12/2016 7:00	3.100	3.160	-0.0611		-0.423		-0.420	0.0624	0.005970	-0.1090
9/23/2016 19:40	3.050	3.010	0.0476		0.328		0.325	0.0509	0.002880	0.0754
6/15/2016 9:05	3.280	3.410	-0.1280		-0.896		-0.895	0.0834	0.036500	-0.2700
7/13/2016 16:05	1.910	1.640	0.2690		1.820		1.860	0.0201	0.034100	0.2670

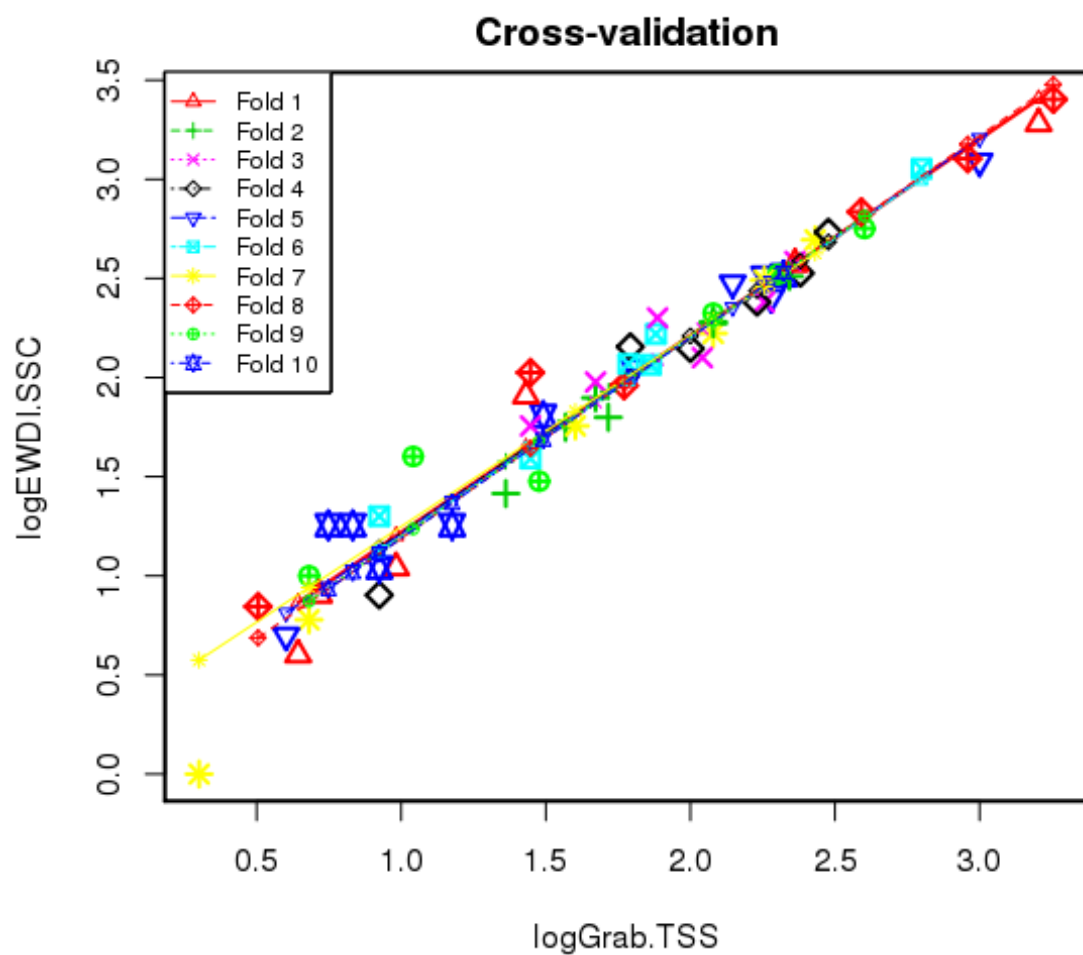
Statistical Plots



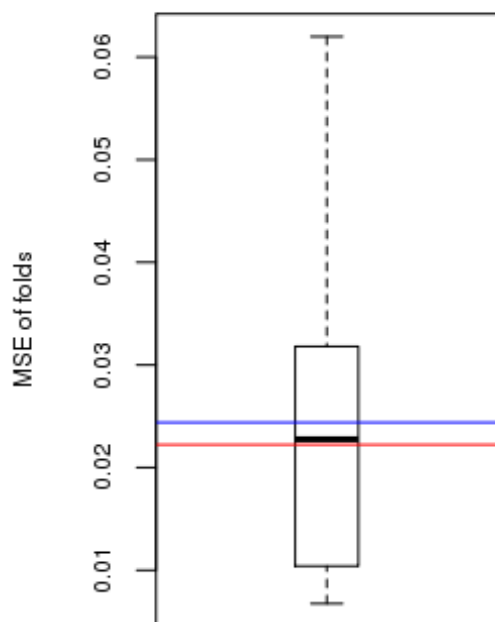




Cross Validation



Minimum MSE of folds: 0.00674
 Mean MSE of folds: 0.02440
 Median MSE of folds: 0.02280
 Maximum MSE of folds: 0.06200
 (Mean MSE of folds) / (Model MSE): 1.10000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

	Date	logEWDI.SSC	logGrab.TSS	EWDI.SSC	Grab.TSS	Computed logEWDI.SSC	Computed EWDI.SSC	Residual	Normal Quantiles	Censored Values
0										
1	2016-03-30	1.96	1.77	91	59	1.98	101	-0.0194	-0.082	--
2	2016-04-19	1.3	0.924	20	8.4	1.13	14.4	0.168	1.24	--
3	2016-04-26	1.75	1.57	56	37	1.78	63.2	-0.0279	-0.165	--
4	2016-06-07	1.26	0.748	18	5.6	0.957	9.6	0.298	1.72	--
5	2016-06-15	2.05	1.81	112	64	2.01	109	0.0355	0.334	--
6	2016-07-12	1.76	1.6	57	40	1.81	68.4	-0.054	-0.248	--
7	2016-08-16	0	0.301	1	2	0.511	3.43	-0.511	-2.33	--
8	2016-04-06	0.845	0.505	7	3.2	0.715	5.49	0.131	1.01	--
9	2016-04-27	1.26	1.18	18	15	1.38	25.7	-0.129	-1.15	--
10	2016-05-03	0.903	0.924	8	8.4	1.13	14.4	-0.23	-1.72	--
11	2016-06-08	1.41	1.36	26	23	1.57	39.3	-0.155	-1.44	--

12	2016-07-20	1.04	0.982	11	9.6	1.19	16.4	-0.15	-1.33	--
13	2016-08-02	0.602	0.643	4	4.4	0.853	7.54	-0.251	-1.94	--
14	2016-08-05	1.8	1.72	63	52	1.92	88.8	-0.124	-1.01	--
15	2016-04-03	1.26	0.833	18	6.8	1.04	11.6	0.214	1.44	--
16	2016-04-21	1.04	0.924	11	8.4	1.13	14.4	-0.0917	-0.765	--
17	2016-06-06	0.903	0.716	8	5.2	0.925	8.91	-0.022	-0.123	--
18	2016-06-17	0.778	0.681	6	4.8	0.89	8.23	-0.112	-0.821	--
19	2016-06-27	1	0.681	10	4.8	0.89	8.23	0.11	0.88	--
20	2016-07-08	0.699	0.602	5	4	0.811	6.86	-0.112	-0.88	--
21	2016-07-12	1.48	1.48	30	30	1.69	51.3	-0.208	-1.56	--
22	2016-07-15	1.59	1.45	39	28	1.66	47.9	-0.0641	-0.609	--
23	2016-04-04	2.16	1.79	143	62	2	106	0.155	1.15	--
24	2016-04-21	2.22	1.88	166	76	2.09	130	0.132	1.08	--
25	2016-04-29	2.52	2.26	332	180	2.46	307	0.059	0.609	--
26	2016-05-01	2.3	1.89	200	77	2.09	131	0.207	1.33	--
27	2016-06-01	2.32	2.08	211	120	2.29	205	0.038	0.377	--
28	2016-06-29	1.6	1.04	40	11	1.25	18.8	0.352	1.94	--
29	2016-07-18	2.53	2.38	336	240	2.59	409	-0.0606	-0.422	--
30	2016-04-01	2.69	2.43	495	270	2.64	460	0.0566	0.56	--
31	2016-04-03	2.59	2.36	385	230	2.57	392	0.017	0.206	--
32	2016-04-27	2.4	2.28	253	190	2.49	324	-0.0825	-0.711	--
33	2016-05-03	2.73	2.48	541	300	2.68	511	0.0495	0.513	--
34	2016-05-11	2.28	2.08	191	120	2.29	205	-0.00529	0.082	--
35	2016-06-15	3.09	3	1230	1000	3.21	1700	-0.116	-0.942	--
36	2016-06-21	2.52	2.32	328	210	2.53	358	-0.0131	0	--
37	2016-09-26	2.84	2.59	685	390	2.8	664	0.0382	0.422	--
38	2016-04-02	2.52	2.3	332	201	2.51	343	0.0111	0.165	--
39	2016-05-03	2.57	2.36	374	230	2.57	392	0.00441	0.123	--
40	2016-06-02	2.38	2.26	240	180	2.46	307	-0.0819	-0.659	--
41	2016-06-09	2.22	2.08	167	120	2.29	205	-0.0636	-0.56	--
42	2016-06-14	2.27	2.08	187	120	2.29	205	-0.0145	-0.041	--
43	2016-06-16	2.75	2.6	565	400	2.81	681	-0.0564	-0.291	--
44	2016-06-21	2.51	2.34	324	220	2.55	375	-0.0386	-0.206	--
45	2016-08-02	2.1	2.04	126	110	2.25	188	-0.148	-1.24	--
46	2016-04-12	2.03	1.45	106	28	1.66	47.9	0.37	2.33	--
47	2016-05-11	1.81	1.49	64	31	1.7	53	0.107	0.821	--
48	2016-06-08	1.9	1.67	79	47	1.88	80.3	0.0178	0.248	--
49	2016-06-13	2.38	2.23	240	170	2.44	290	-0.0572	-0.334	--
50	2016-06-28	2.07	1.79	117	61	1.99	104	0.0753	0.659	--
51	2016-07-14	1.98	1.67	95	47	1.88	80.3	0.0979	0.711	--
52	2016-08-12	3.4	3.26	2530	1800	3.46	3060	-0.0576	-0.377	--
53	2016-08-12	3.1	2.96	1270	910	3.16	1550	-0.0611	-0.513	--
54	2016-09-24	3.05	2.8	1130	630	3.01	1070	0.0476	0.467	--
55	2016-03-23	2.06	1.86	116	73	2.07	125	-0.00631	0.041	--
56	2016-04-03	2.49	2.26	310	180	2.46	307	0.0292	0.291	--
57	2016-05-11	1.76	1.45	57	28	1.66	47.9	0.101	0.765	--
58	2016-06-09	2.15	2	140	100	2.21	171	-0.0611	-0.467	--
59	2016-06-14	2.48	2.15	299	140	2.35	239	0.123	0.942	--
60	2016-06-15	3.28	3.2	1910	1600	3.41	2720	-0.128	-1.08	--
61	2016-07-13	1.91	1.43	81	27	1.64	46.2	0.269	1.56	--

Definitions

EWDI.SSC: Suspended sediment concentration (SSC) in mg/l (80154)
Grab.TSS: Total suspended solids in mg/l (00530)

App Version 1.0