

Model Statistics, Data, and Plots

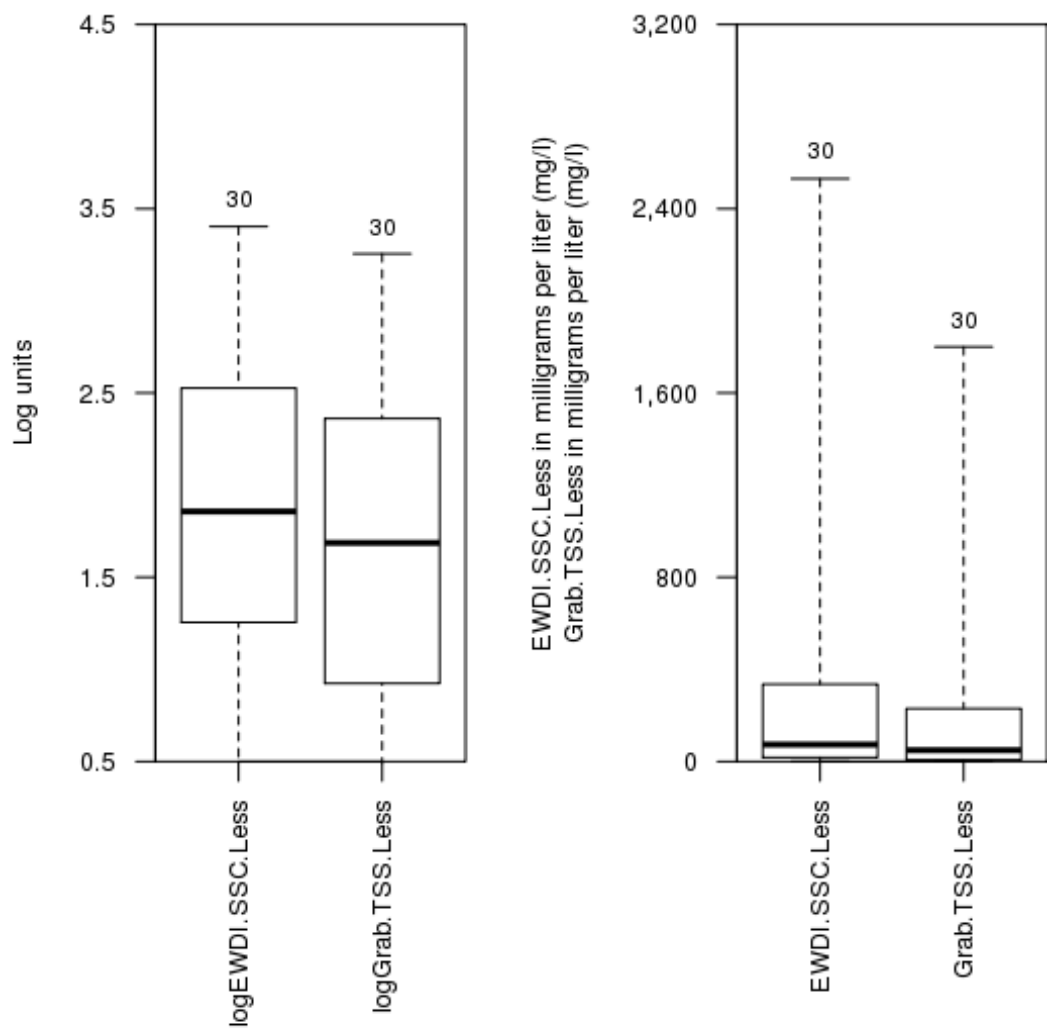
Model

$$\text{logEWDI.SSC.Less} = + 1.01 * \text{logGrab.TSS.Less} + 0.122$$

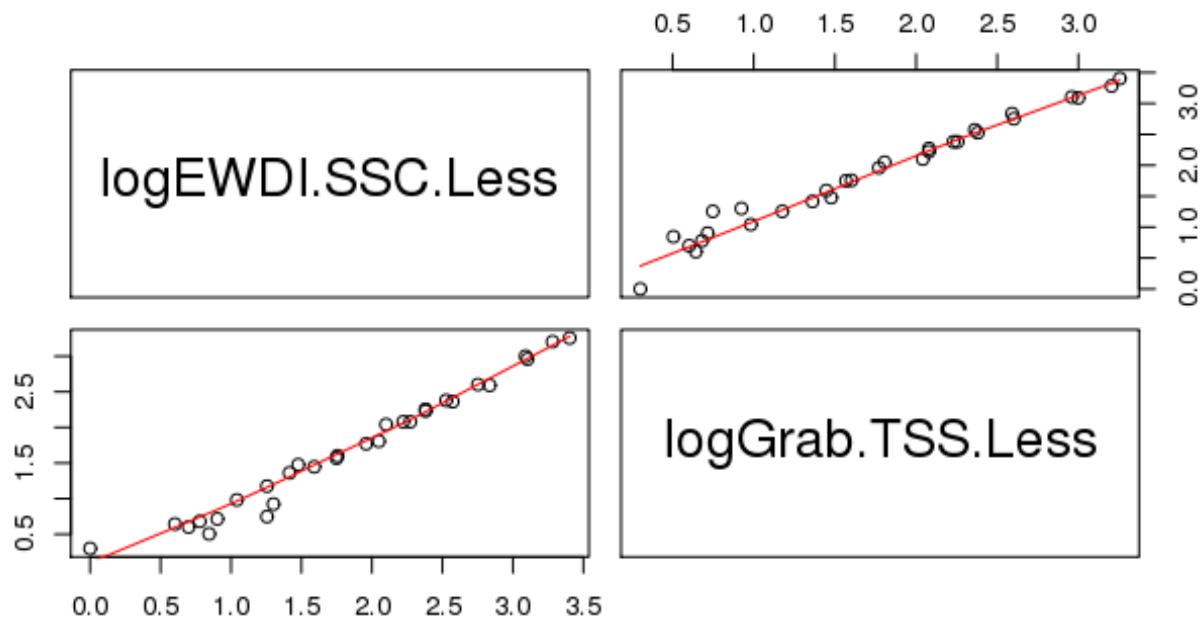
Variable Summary Statistics

	logEWDI.SSC.Less	EWDI.SSC.Less	logGrab.TSS.Less	Grab.TSS.Less
Minimum	0.00	1	0.301	2.0
1st Quartile	1.26	18	0.924	8.4
Median	1.86	74	1.690	49.5
Mean	1.85	346	1.710	254.0
3rd Quartile	2.53	336	2.360	230.0
Maximum	3.40	2530	3.260	1800.0

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	30
Standard error (RMSE)	0.14
Average Model standard percentage error (MSPE)	32.7
Coefficient of determination (R^2)	0.976
Adjusted Coefficient of Determination (Adj. R^2)	0.975
Bias Correction Factor (BCF)	1.05

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	0.122	0.0572	2.14	4.13e-02
logGrab.TSS.Less	1.010	0.0299	33.80	3.13e-24

Correlation Matrix

	Intercept	E.vars
Intercept	1.000	-0.895
E.vars	-0.895	1.000

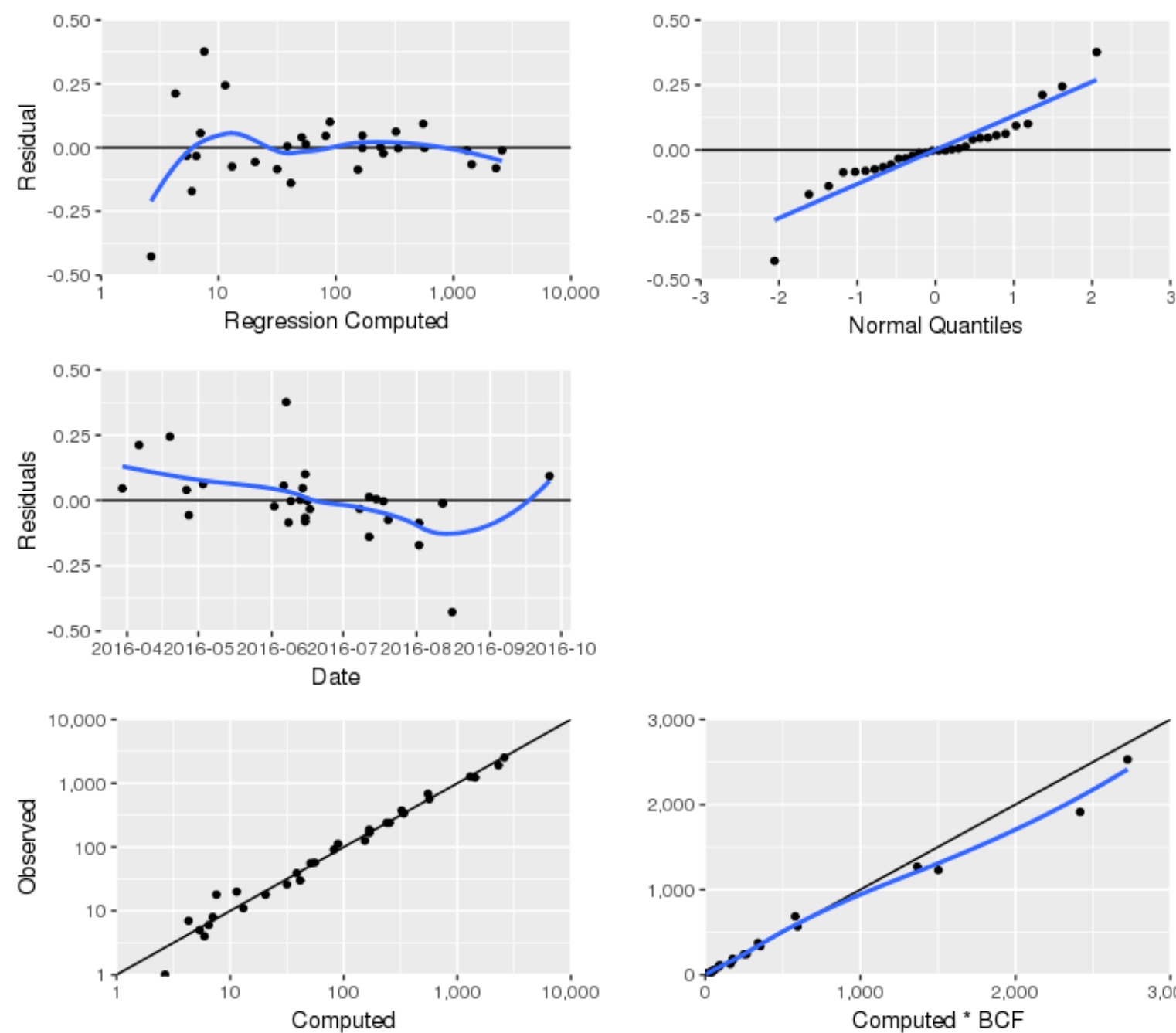
Outlier Test Criteria

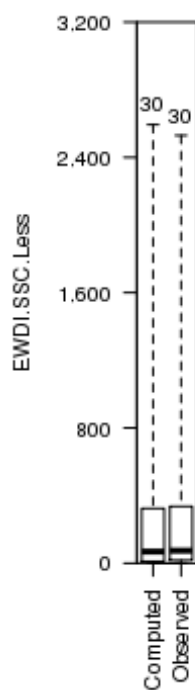
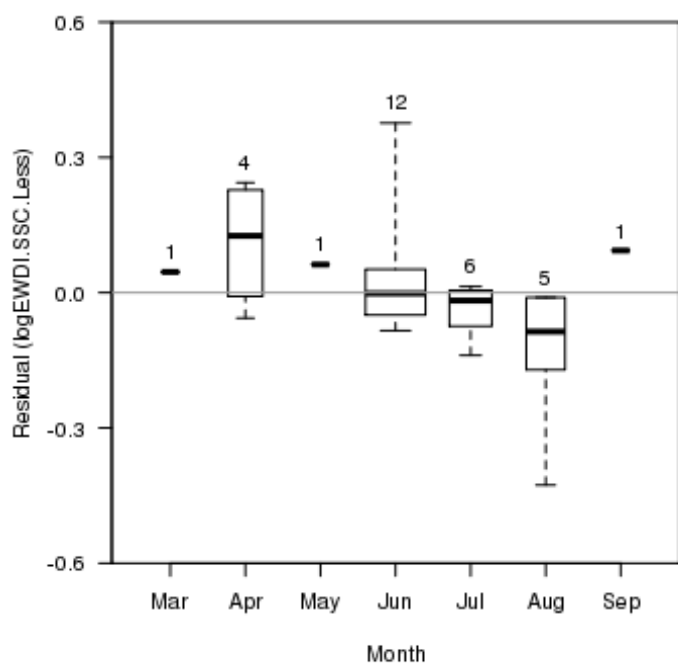
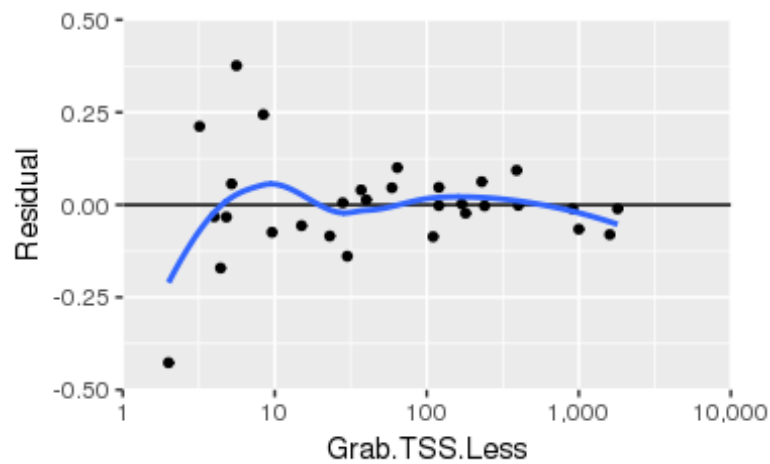
Leverage	Cook's D	DFFITS
0.100	0.106	0.365

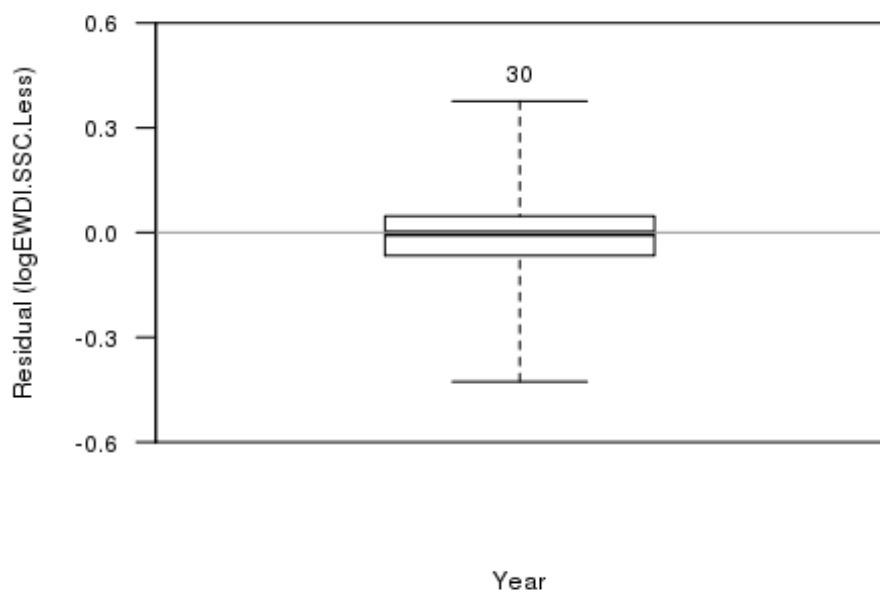
Flagged Observations

	logEWDI.SSC.Less	Estimate	Residual	Standard	Residual	Studentized	Residual	Leverage	Cook's D	DFFITS
6/15/2016 17:35	3.090	3.160	-0.0659		-0.5000		-0.4930	0.1100	0.015400	-0.1730
4/6/2016 15:35	0.845	0.633	0.2120		1.6000		1.6500	0.1000	0.143000	0.5500
8/12/2016 10:40	3.100	3.110	-0.0106		-0.0801		-0.0786	0.1050	0.000376	-0.0269
6/15/2016 9:05	3.280	3.360	-0.0805		-0.6200		-0.6130	0.1360	0.030200	-0.2430
8/11/2016 19:50	3.400	3.410	-0.0108		-0.0834		-0.0819	0.1430	0.000580	-0.0335
4/19/2016 12:40	1.300	1.060	0.2440		1.8000		1.8800	0.0619	0.107000	0.4840
8/2/2016 10:35	0.602	0.773	-0.1710		-1.2800		-1.3000	0.0858	0.077100	-0.3970
6/7/2016 10:50	1.260	0.879	0.3760		2.8000		3.2500	0.0760	0.324000	0.9310
8/16/2016 9:40	0.000	0.427	-0.4270		-3.2700		-4.0800	0.1250	0.762000	-1.5400

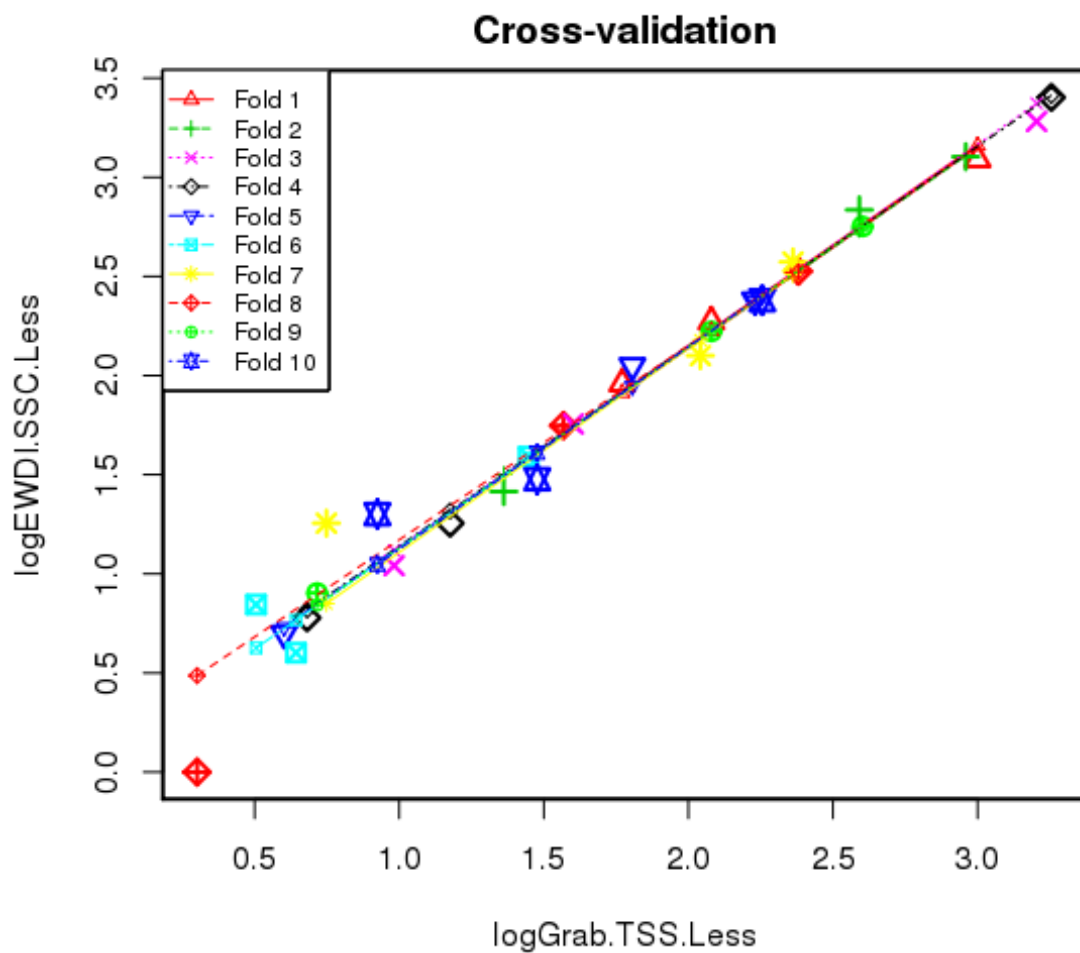
Statistical Plots



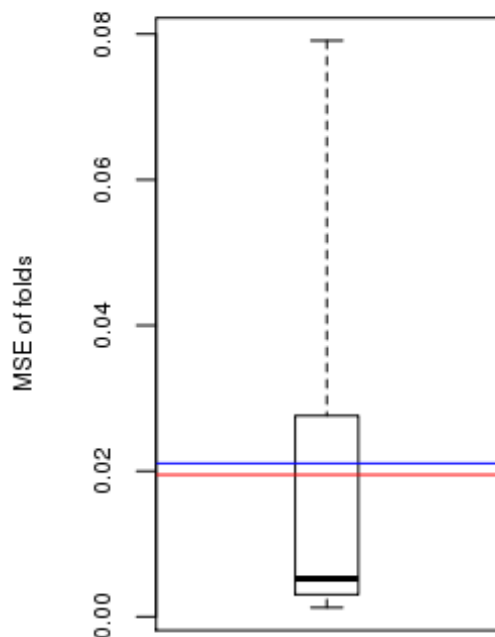




Cross Validation



Minimum MSE of folds: 0.00126
 Mean MSE of folds: 0.02110
 Median MSE of folds: 0.00523
 Maximum MSE of folds: 0.07910
 (Mean MSE of folds) / (Model MSE): 1.08000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

0	Date	logEWDI.SSC.Less	logGrab.TSS.Less	EWDI.SSC.Less	Grab.TSS.Less	Computed logEWDI.SSC.Less	Computed EWDI.SSC.Less	Residual	Normal Quantiles	Censored Values
1	2016-04-27	1.26	1.18	18	15	1.31	21.5	-0.0564	-0.569	--
2	2016-07-18	2.53	2.38	336	240	2.53	355	-0.00278	-0.0415	--
3	2016-06-15	3.09	3	1230	1000	3.16	1500	-0.0659	-0.669	--
4	2016-06-02	2.38	2.26	240	180	2.4	265	-0.0226	-0.295	--
5	2016-05-03	2.57	2.36	374	230	2.51	340	0.0624	0.895	--
6	2016-06-16	2.75	2.6	565	400	2.75	595	-0.00139	0.125	--
7	2016-06-14	2.27	2.08	187	120	2.22	176	0.0471	0.669	--
8	2016-06-13	2.38	2.23	240	170	2.38	251	0.00251	0.209	--
9	2016-07-15	1.59	1.45	39	28	1.59	40.4	0.00536	0.295	--
10	2016-04-06	0.845	0.505	7	3.2	0.633	4.51	0.212	1.37	--
11	2016-06-17	0.778	0.681	6	4.8	0.811	6.8	-0.0331	-0.474	--
12	2016-06-09	2.22	2.08	167	120	2.22	176	-0.00203	0.0415	--
13	2016-08-02	2.1	2.04	126	110	2.19	161	-0.0862	-1.18	--
14	2016-08-12	3.1	2.96	1270	910	3.11	1370	-0.0106	-0.125	--
15	2016-06-15	3.28	3.2	1910	1600	3.36	2420	-0.0805	-0.895	--

16	2016-08-12	3.4	3.26	2530	1800	3.41	2720	-0.0108	-0.209	--
17	2016-03-30	1.96	1.77	91	59	1.91	85.9	0.046	0.569	--
18	2016-06-08	1.41	1.36	26	23	1.5	33.2	-0.0844	-1.03	--
19	2016-04-26	1.75	1.57	56	37	1.71	53.6	0.0401	0.474	--
20	2016-06-15	2.05	1.81	112	64	1.95	93.3	0.101	1.18	--
21	2016-04-19	1.3	0.924	20	8.4	1.06	12	0.244	1.62	--
22	2016-06-06	0.903	0.716	8	5.2	0.846	7.37	0.0567	0.777	--
23	2016-07-12	1.48	1.48	30	30	1.62	43.4	-0.139	-1.37	--
24	2016-07-08	0.699	0.602	5	4	0.731	5.65	-0.0323	-0.383	--
25	2016-07-12	1.76	1.6	57	40	1.74	58	0.0135	0.383	--
26	2016-07-20	1.04	0.982	11	9.6	1.12	13.7	-0.0743	-0.777	--
27	2016-08-02	0.602	0.643	4	4.4	0.773	6.23	-0.171	-1.62	--
28	2016-06-07	1.26	0.748	18	5.6	0.879	7.95	0.376	2.06	--
29	2016-08-16	0	0.301	1	2	0.427	2.81	-0.427	-2.06	--
30	2016-09-26	2.84	2.59	685	390	2.74	580	0.0934	1.03	--

Definitions

EWDI.SSC.Less: Suspended sediment concentration (SSC) in mg/l (80154)

Grab.TSS.Less: Total suspended solids in mg/l (00530)

App Version 1.0