

Model Statistics, Data, and Plots

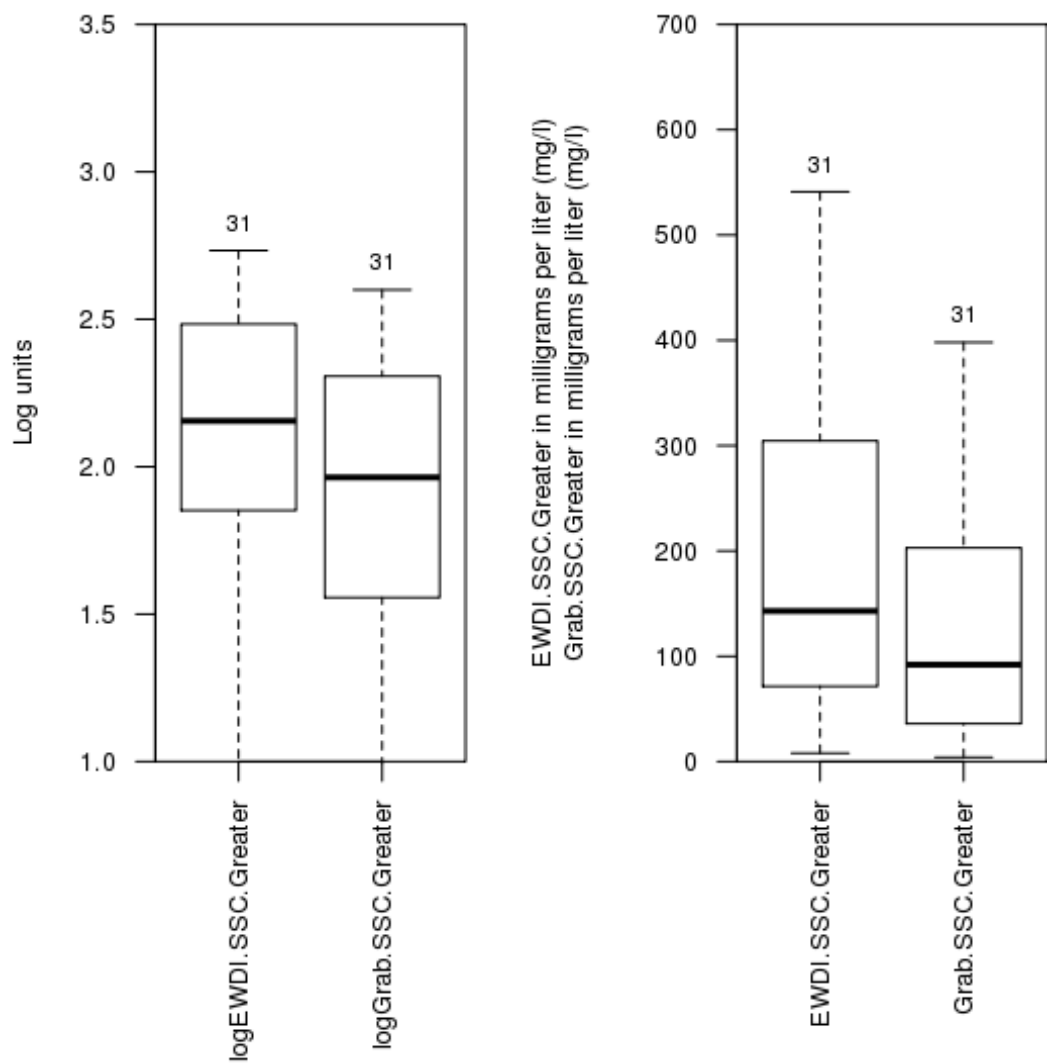
Model

$$\text{logEWDI.SSC.Greater} = + 0.84 * \text{logGrab.SSC.Greater} + 0.517$$

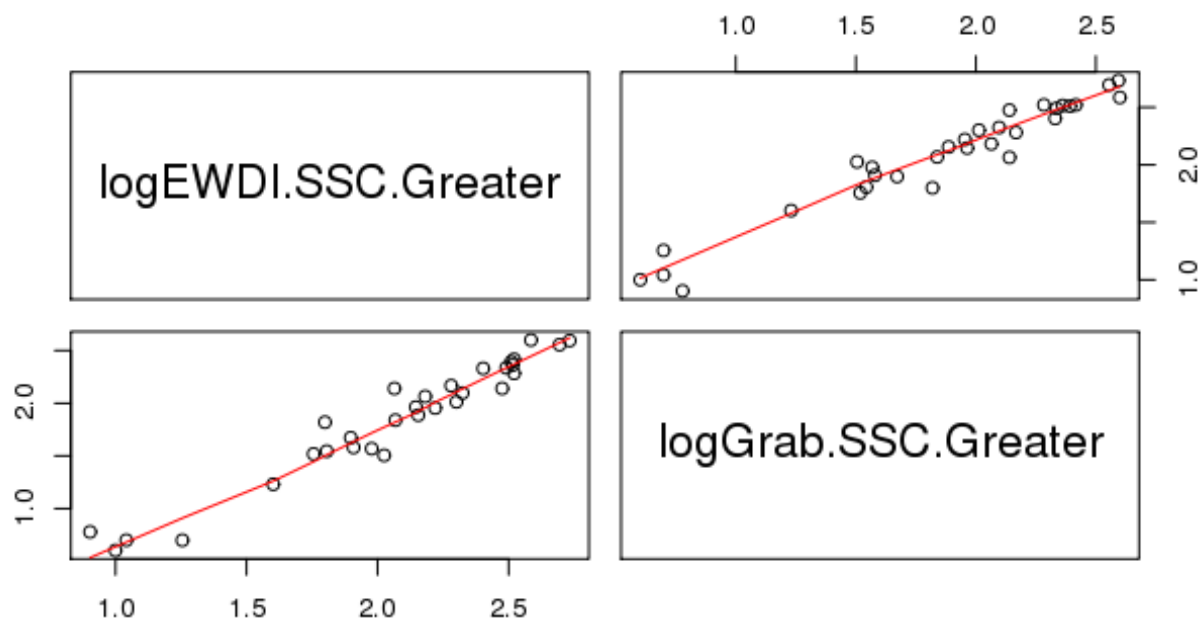
Variable Summary Statistics

	logEWDI.SSC.Greater	EWDI.SSC.Greater	logGrab.SSC.Greater	Grab.SSC.Greater
Minimum	0.903	8	0.602	4
1st Quartile	1.810	64	1.540	35
Median	2.160	143	1.960	92
Mean	2.070	183	1.850	127
3rd Quartile	2.490	310	2.330	214
Maximum	2.730	541	2.600	398

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	31
Standard error (RMSE)	0.116
Average Model standard percentage error (MSPE)	27.1
Coefficient of determination (R^2)	0.946
Adjusted Coefficient of Determination (Adj. R^2)	0.945
Bias Correction Factor (BCF)	1.03

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	0.517	0.0718	7.2	6.31e-08
logGrab.SSC.Greater	0.840	0.0371	22.6	5.67e-20

Correlation Matrix

	Intercept	E.vars
Intercept	1.000	-0.957
E.vars	-0.957	1.000

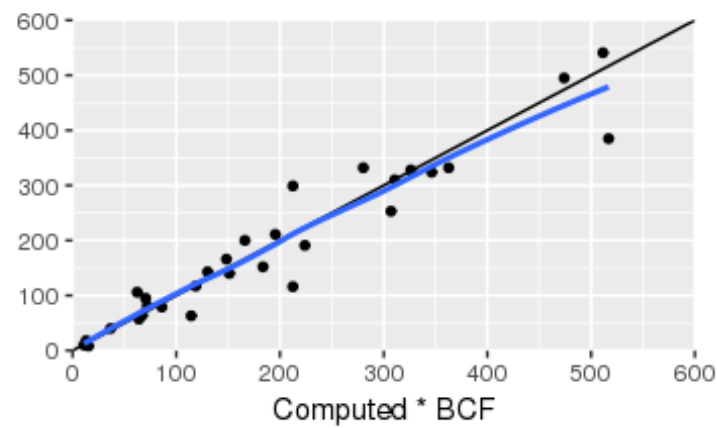
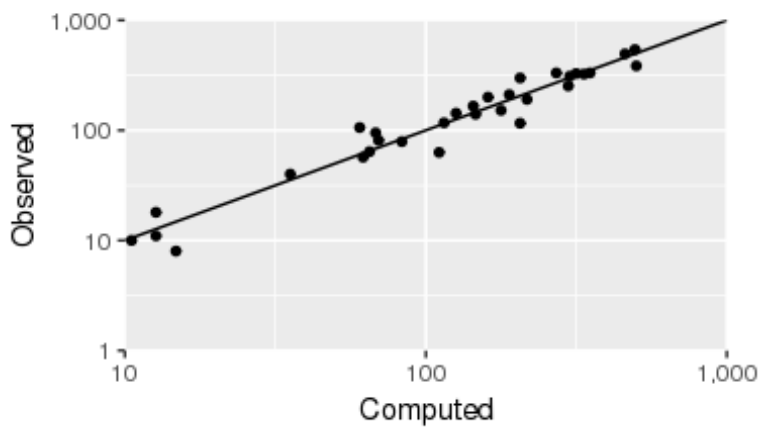
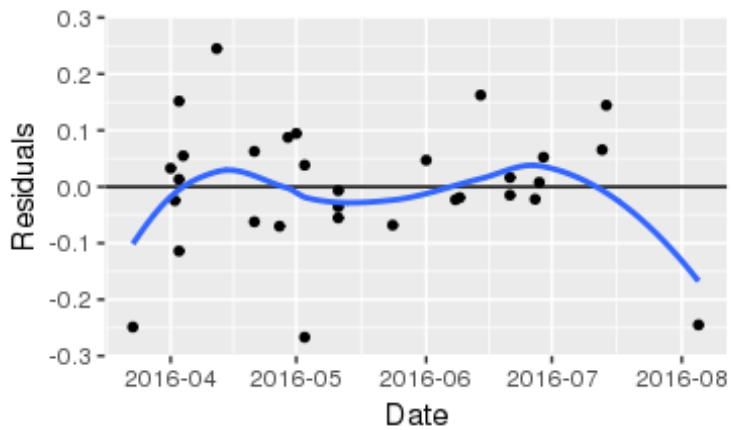
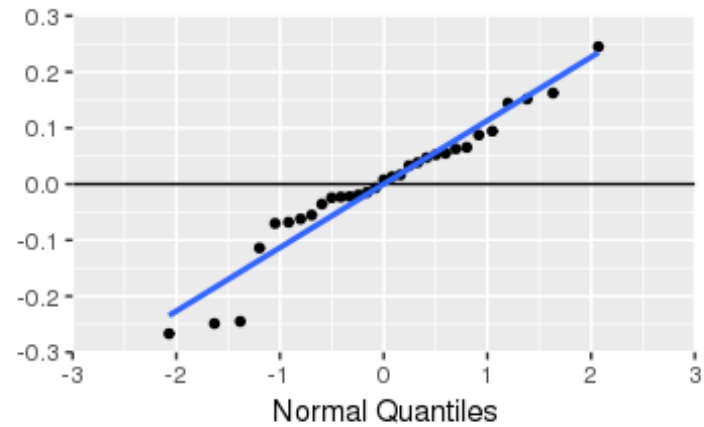
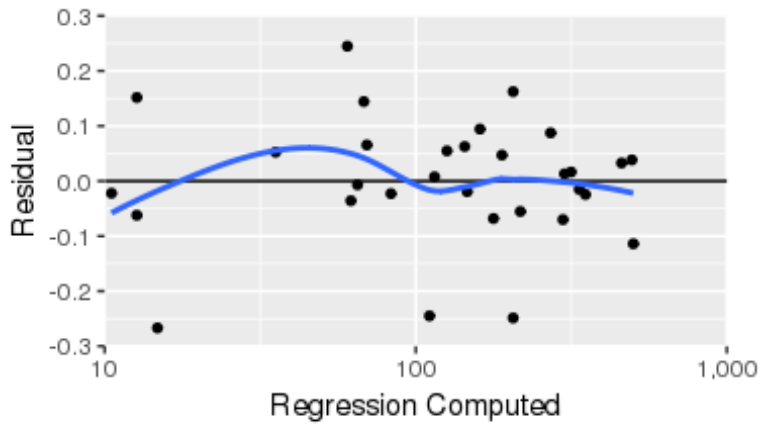
Outlier Test Criteria

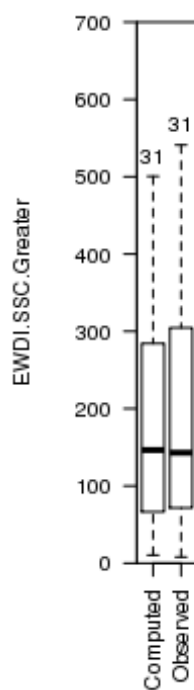
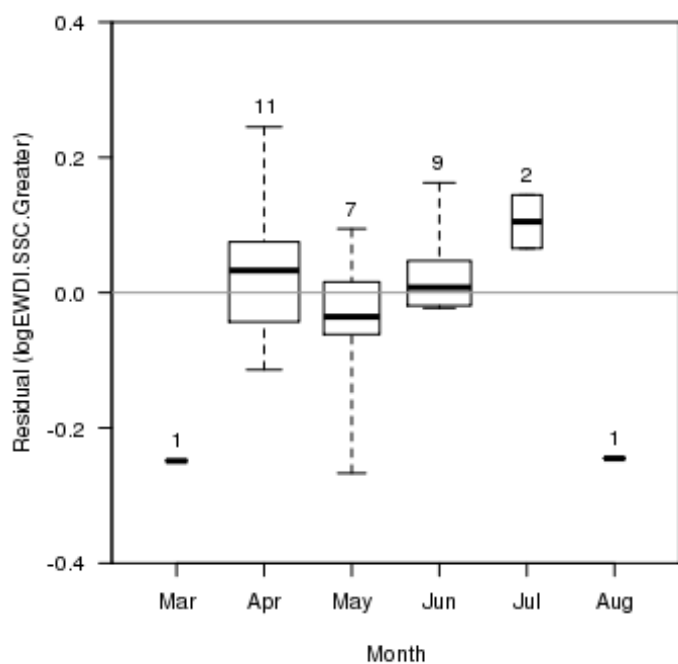
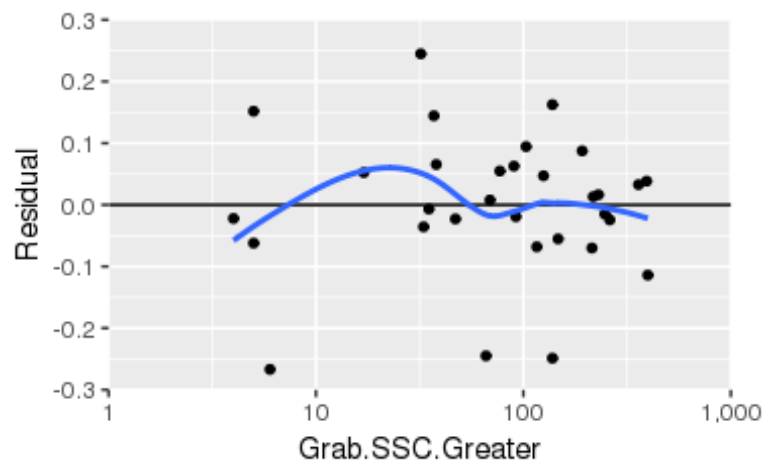
Leverage	Cook's D	DFFITS
0.0968	0.1057	0.3592

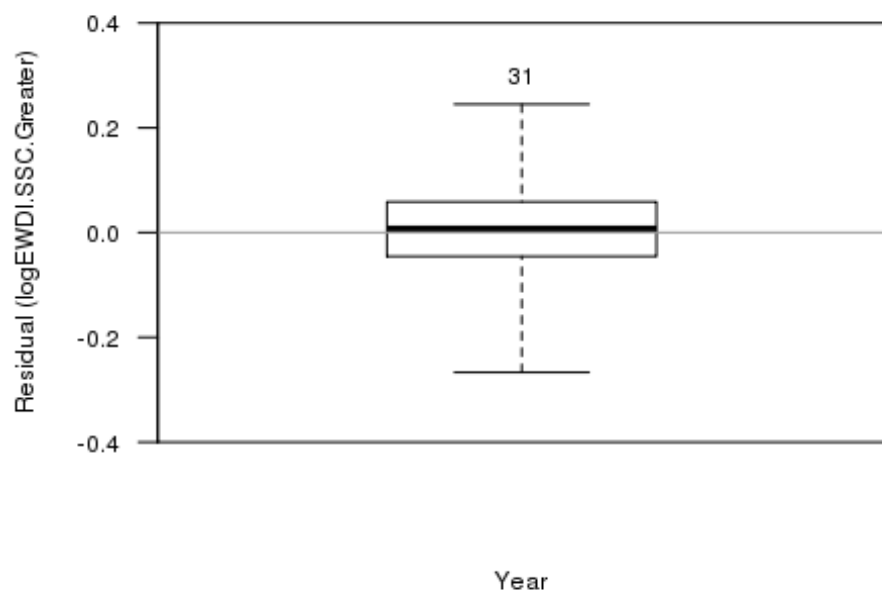
Flagged Observations

	logEWDI.SSC.Greater	Estimate	Residual	Standard Residual	Studentized Residual	Leverage	Cook's D	DFITS
4/12/2016 12:05	2.030	1.78	0.2450	2.150	2.310	0.0444	0.10800	0.498
3/23/2016 16:15	2.060	2.31	-0.2490	-2.180	-2.350	0.0408	0.10200	-0.484
4/21/2016 10:05	1.040	1.10	-0.0621	-0.585	-0.579	0.1670	0.03440	-0.259
6/27/2016 14:05	1.000	1.02	-0.0221	-0.212	-0.208	0.1910	0.00528	-0.101
4/3/2016 15:35	1.260	1.10	0.1520	1.430	1.460	0.1670	0.20500	0.653
5/3/2016 17:30	0.903	1.17	-0.2670	-2.490	-2.760	0.1490	0.54300	-1.150
8/5/2016 14:20	1.800	2.04	-0.2450	-2.140	-2.290	0.0324	0.07670	-0.419

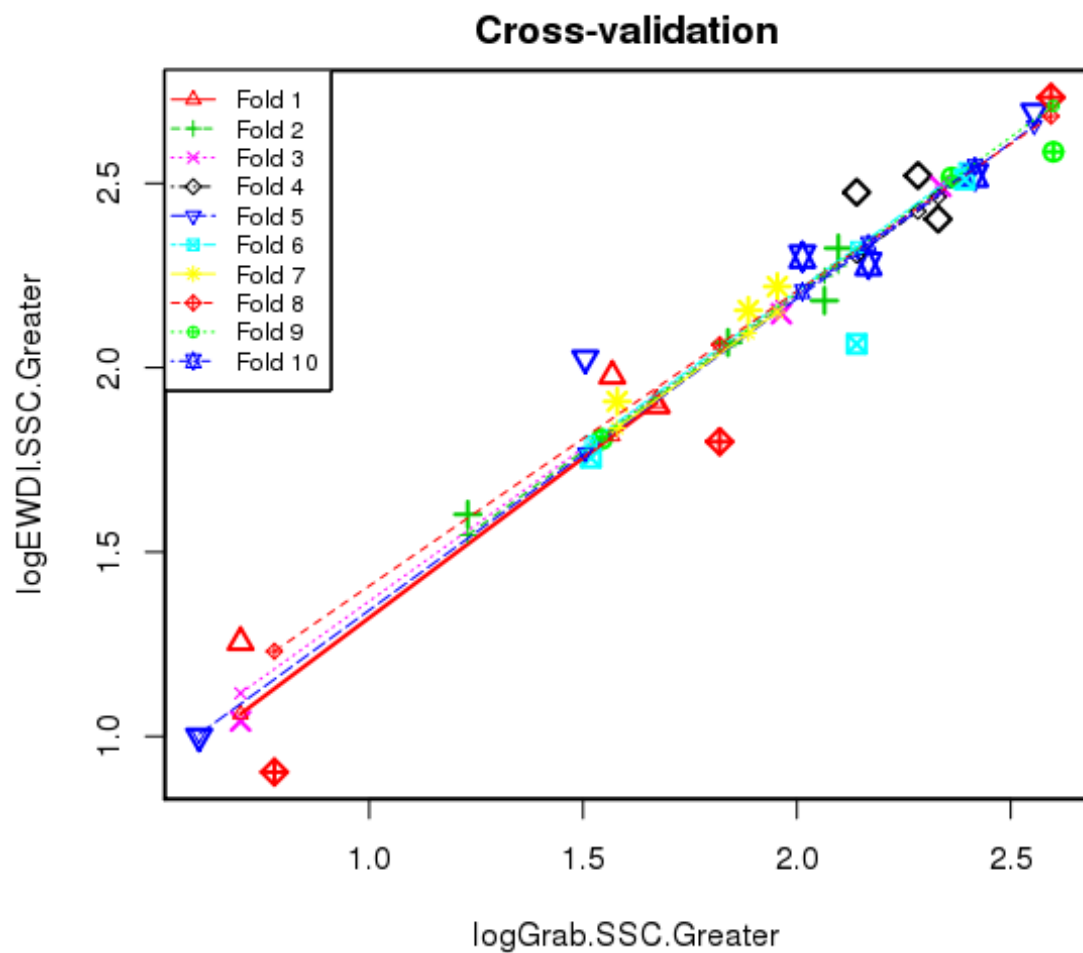
Statistical Plots



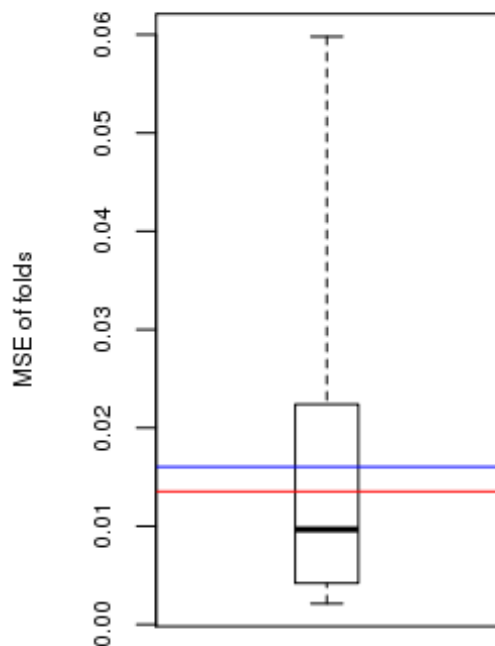




Cross Validation



Minimum MSE of folds: 0.00212
 Mean MSE of folds: 0.01600
 Median MSE of folds: 0.00966
 Maximum MSE of folds: 0.05980
 (Mean MSE of folds) / (Model MSE): 1.19000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

0	Date	logEWDI.SSC.Greater	logGrab.SSC.Greater	EWDI.SSC.Greater	Grab.SSC.Greater	Computed logEWDI.SSC.Greater	Computed EWDI.SSC.Greater	Residual	Normal Quantiles	Censored Values
1	2016-04-12	2.03	1.51	106	32	1.78	62.3	0.245	2.07	--
2	2016-05-11	1.81	1.54	64	35	1.81	67.1	-0.00684	-0.0804	--
3	2016-06-14	2.48	2.14	299	138	2.31	212	0.162	1.63	--
4	2016-07-14	1.98	1.57	95	37	1.83	70.3	0.144	1.2	--
5	2016-07-13	1.91	1.58	81	38	1.84	71.9	0.0655	0.801	--
6	2016-05-01	2.3	2.01	200	103	2.21	166	0.0945	1.05	--
7	2016-06-28	2.07	1.84	117	69	2.06	119	0.00768	0	--
8	2016-03-23	2.06	2.14	116	138	2.31	212	-0.249	-1.63	--
9	2016-04-04	2.16	1.89	143	77	2.1	130	0.0548	0.596	--
10	2016-04-21	2.22	1.95	166	90	2.16	148	0.0627	0.695	--
11	2016-04-01	2.69	2.56	495	359	2.66	474	0.0328	0.243	--
12	2016-06-08	1.9	1.67	79	47	1.92	86	-0.0229	-0.413	--
13	2016-06-09	2.15	1.96	140	92	2.17	151	-0.0193	-0.243	--
14	2016-04-21	1.04	0.699	11	5	1.1	13.1	-0.0621	-0.801	--
15	2016-04-29	2.52	2.28	332	192	2.43	280	0.0875	0.917	--
16	2016-06-27	1	0.602	10	4	1.02	10.9	-0.0221	-0.327	--
17	2016-04-03	2.59	2.6	385	398	2.7	517	-0.114	-1.2	--
18	2016-05-11	2.28	2.17	191	147	2.34	224	-0.0552	-0.695	--

19	2016-06-21	2.52	2.36	328	230	2.5	326	0.0164	0.161	--
20	2016-05-11	1.76	1.52	57	33	1.79	63.9	-0.0357	-0.596	--
21	2016-04-03	1.26	0.699	18	5	1.1	13.1	0.152	1.38	--
22	2016-05-03	2.73	2.59	541	393	2.69	511	0.0384	0.327	--
23	2016-04-02	2.52	2.42	332	261	2.55	363	-0.0245	-0.502	--
24	2016-05-24	2.18	2.06	152	116	2.25	184	-0.0681	-0.917	--
25	2016-04-27	2.4	2.33	253	214	2.47	307	-0.0701	-1.05	--
26	2016-05-03	0.903	0.778	8	6	1.17	15.3	-0.267	-2.07	--
27	2016-08-05	1.8	1.82	63	66	2.04	114	-0.245	-1.38	--
28	2016-06-01	2.32	2.1	211	125	2.28	195	0.0471	0.413	--
29	2016-06-21	2.51	2.39	324	247	2.53	346	-0.0149	-0.161	--
30	2016-06-29	1.6	1.23	40	17	1.55	36.6	0.0523	0.502	--
31	2016-04-03	2.49	2.34	310	217	2.48	311	0.0131	0.0804	--

Definitions

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

App Version 1.0