

Model Statistics, Data, and Plots

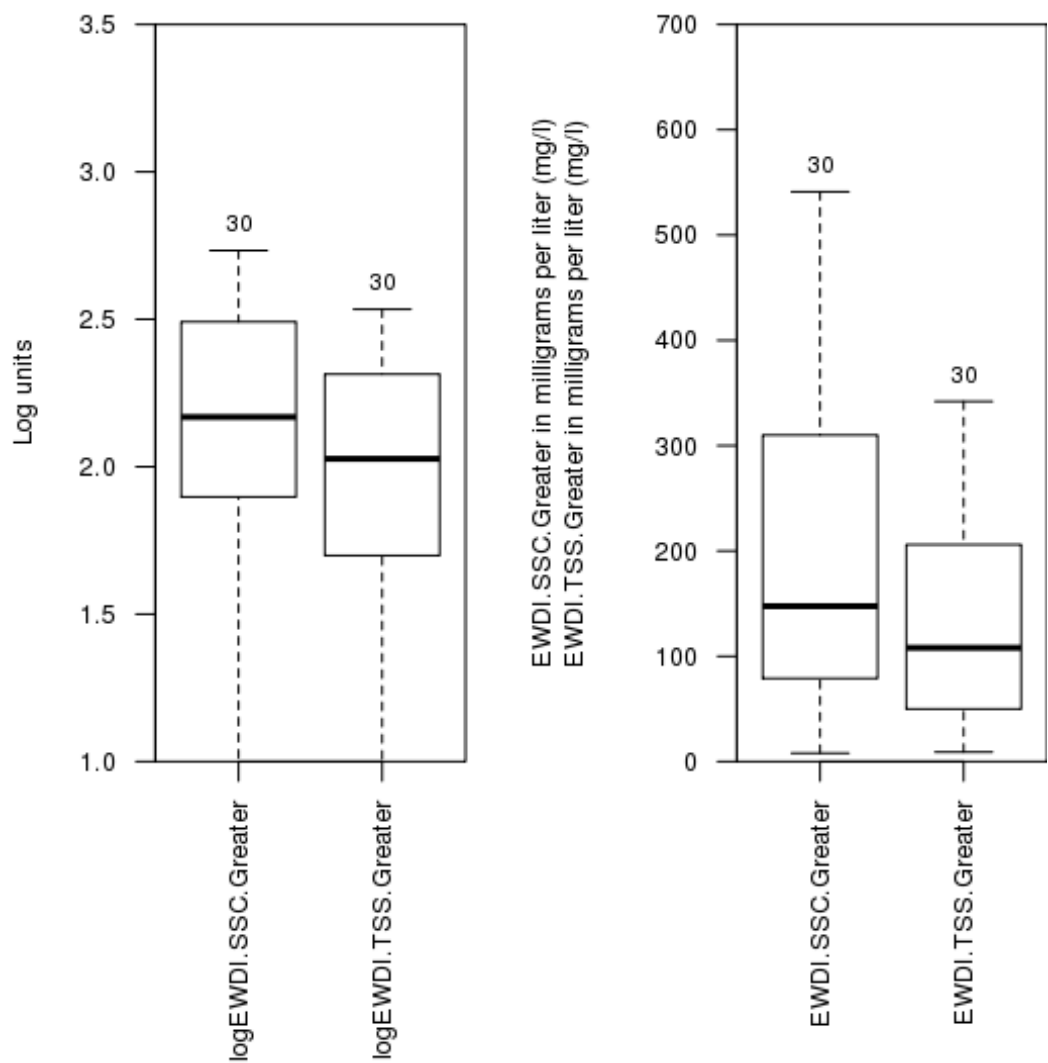
Model

$\text{logEWDI.SSC.Greater} = + 1.04 * \text{logEWDI.TSS.Greater} + 0.0804$

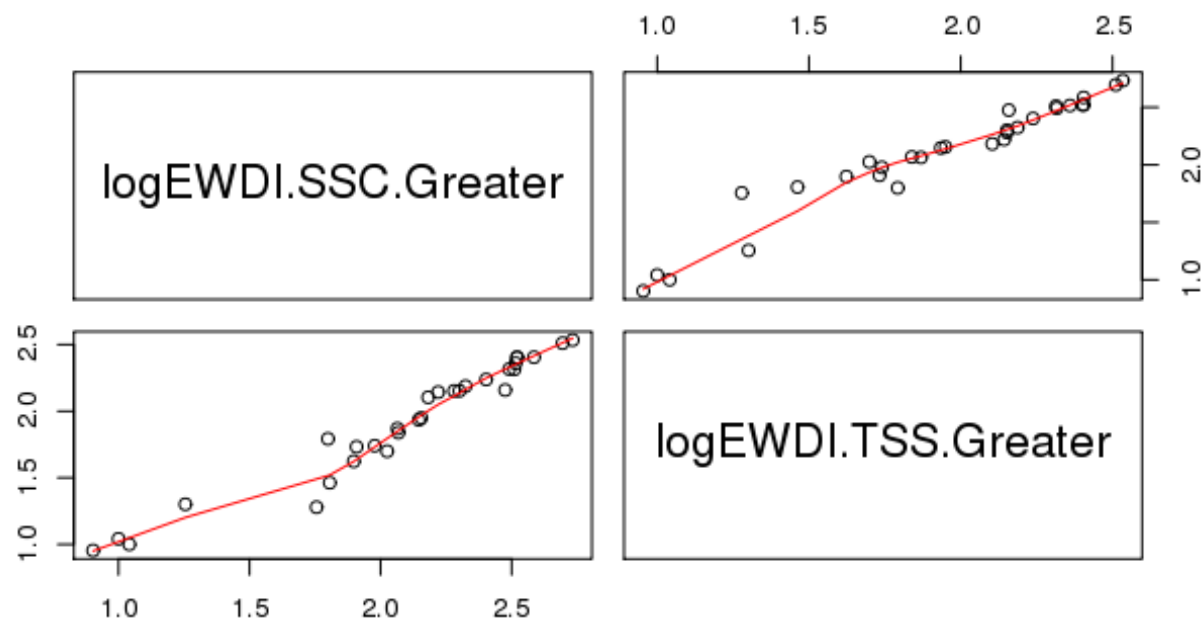
Variable Summary Statistics

	logEWDI.SSC.Greater	EWDI.SSC.Greater	logEWDI.TSS.Greater	EWDI.TSS.Greater
Minimum	0.903	8	0.954	9
1st Quartile	1.900	79	1.700	50
Median	2.170	147	2.030	108
Mean	2.090	188	1.920	126
3rd Quartile	2.490	310	2.310	206
Maximum	2.730	541	2.530	342

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	30
Standard error (RMSE)	0.118
Average Model standard percentage error (MSPE)	27.6
Coefficient of determination (R ²)	0.945
Adjusted Coefficient of Determination (Adj. R ²)	0.943
Bias Correction Factor (BCF)	1.04

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	0.0804	0.0942	0.853	4.01e-01
logEWDI.TSS.Greater	1.0400	0.0477	21.900	3.81e-19

Correlation Matrix

	Intercept	E.vars
Intercept	1.000	-0.973
E.vars	-0.973	1.000

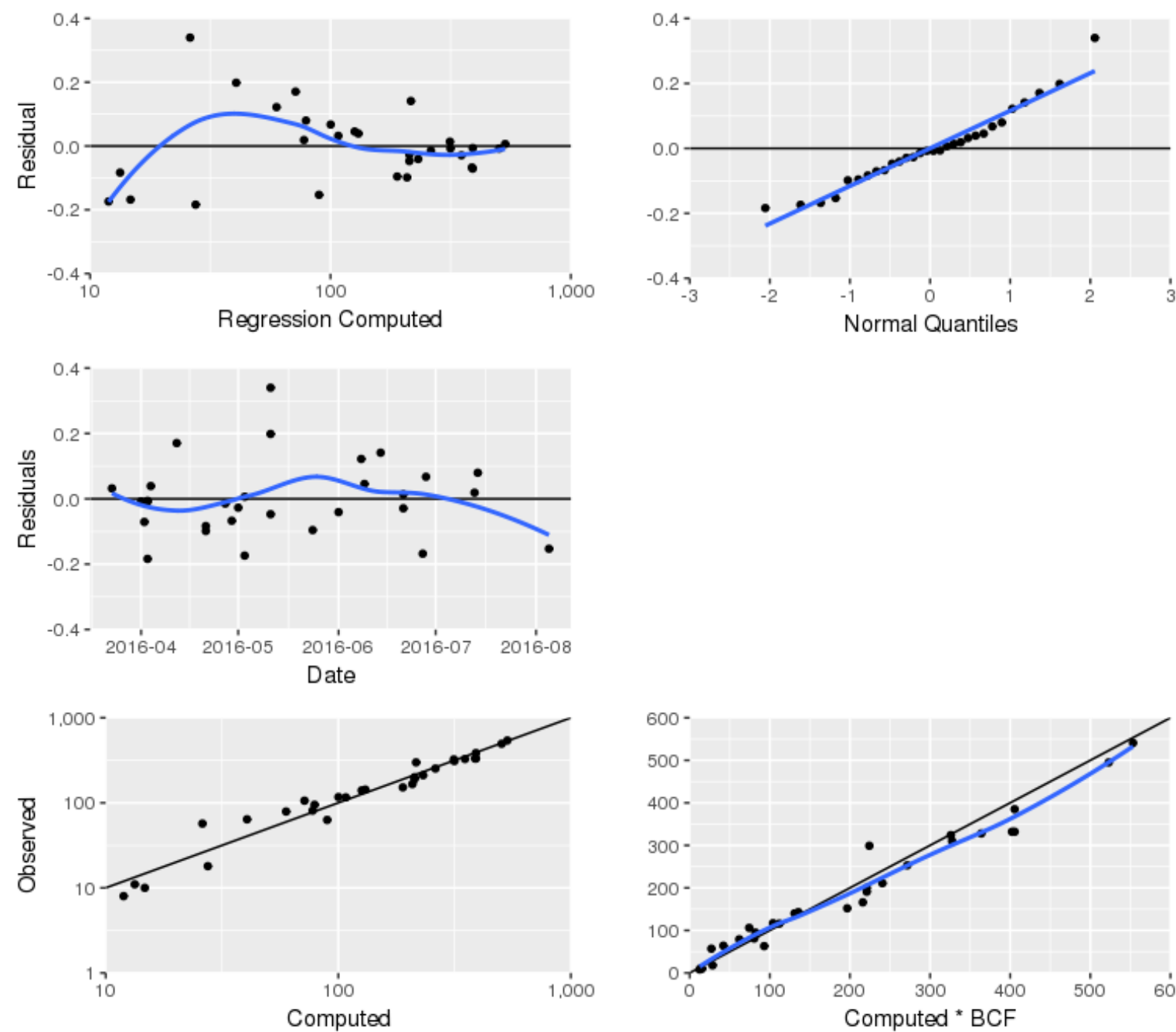
Outlier Test Criteria

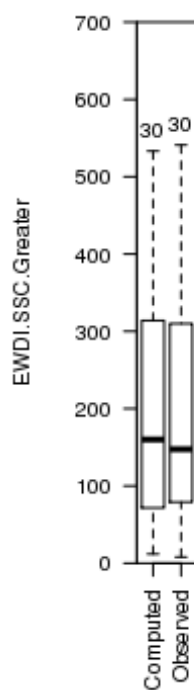
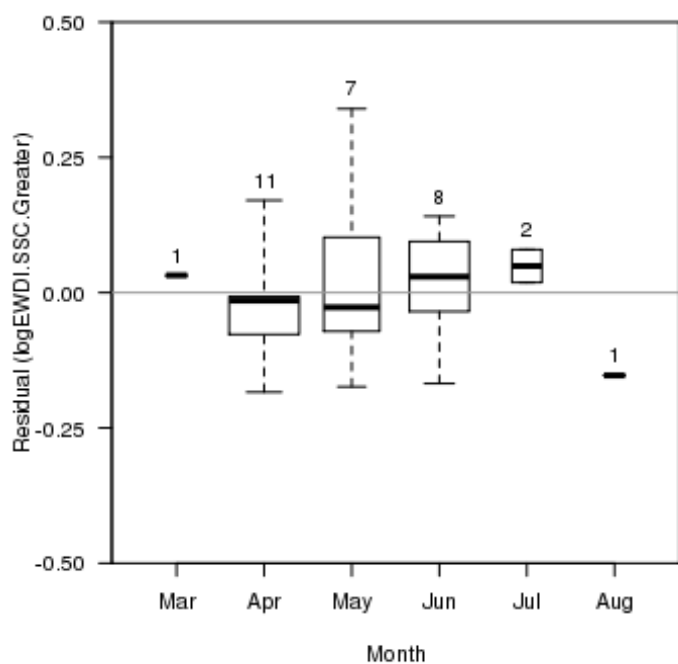
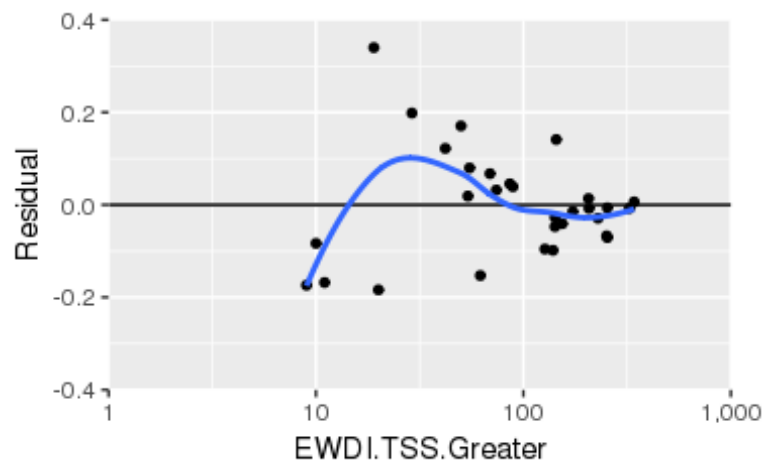
Leverage	Cook's D	DFFITS
0.100	0.106	0.365

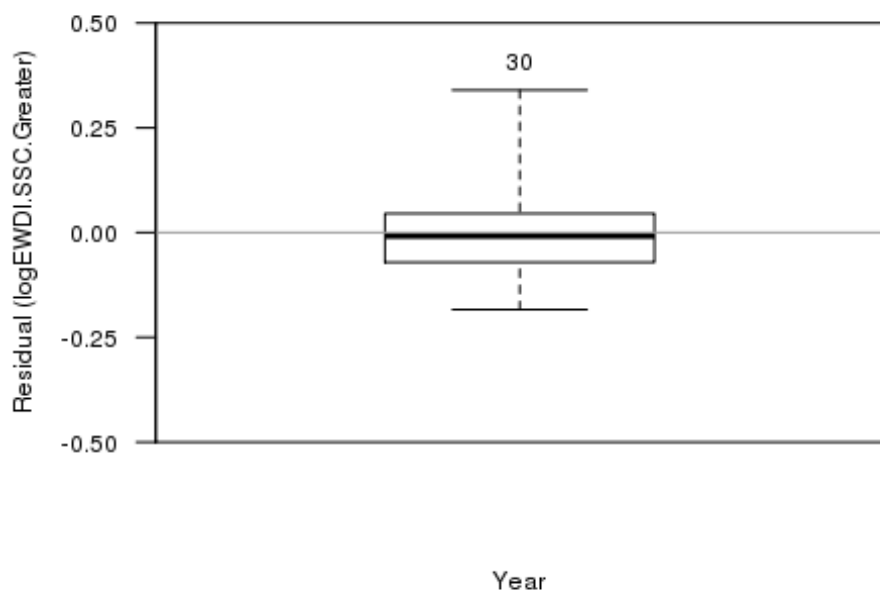
Flagged Observations

	logEWDI.SSC.Greater	Estimate	Residual	Standard Residual	Studentized Residual	Leverage	Cook's D	DFFITS
5/11/2016 16:45	1.810	1.61	0.1990	1.740	1.810	0.0674	0.1090	0.486
4/21/2016 10:05	1.040	1.12	-0.0834	-0.774	-0.768	0.1710	0.0619	-0.349
6/27/2016 14:05	1.000	1.17	-0.1680	-1.550	-1.590	0.1590	0.2270	-0.692
5/11/2016 10:05	1.760	1.42	0.3400	3.030	3.630	0.1000	0.5120	1.210
4/3/2016 15:35	1.260	1.44	-0.1840	-1.630	-1.690	0.0957	0.1410	-0.549
5/3/2016 17:30	0.903	1.08	-0.1740	-1.630	-1.680	0.1850	0.3010	-0.801

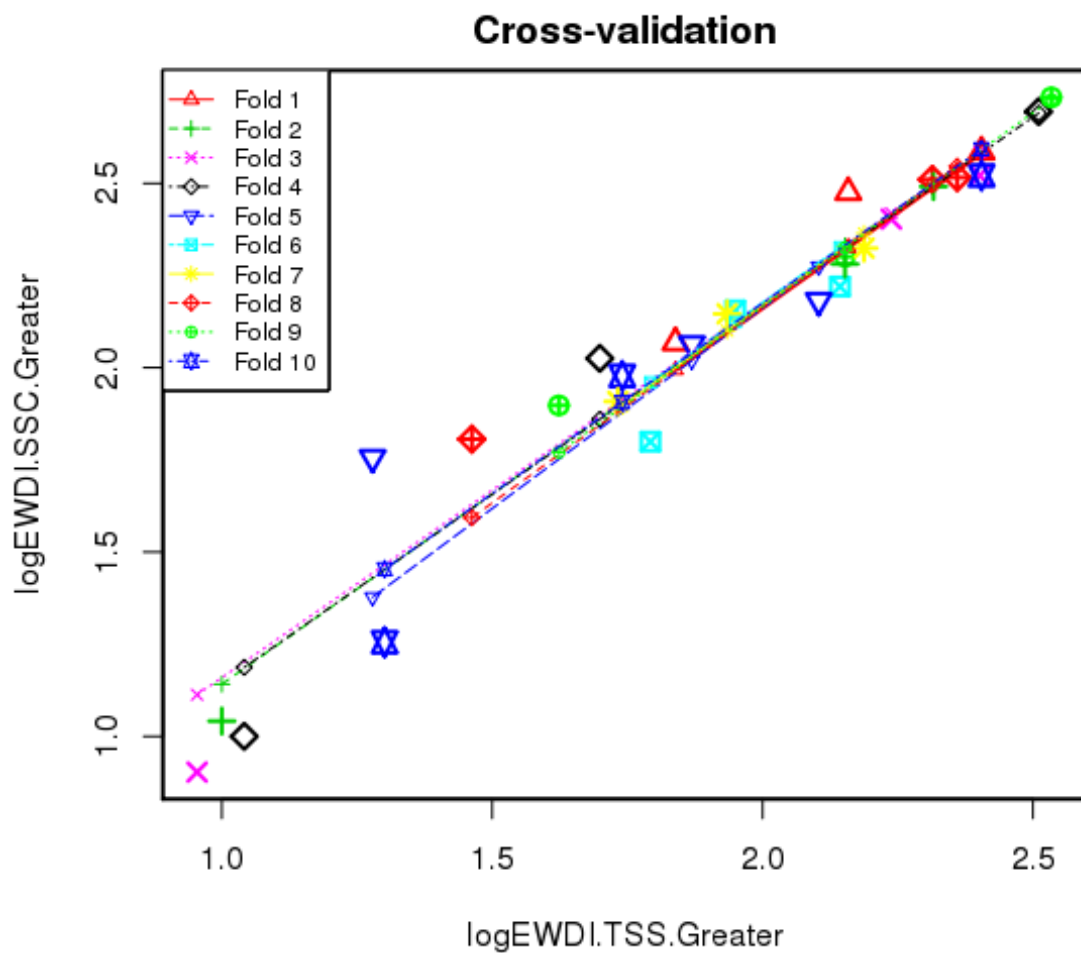
Statistical Plots



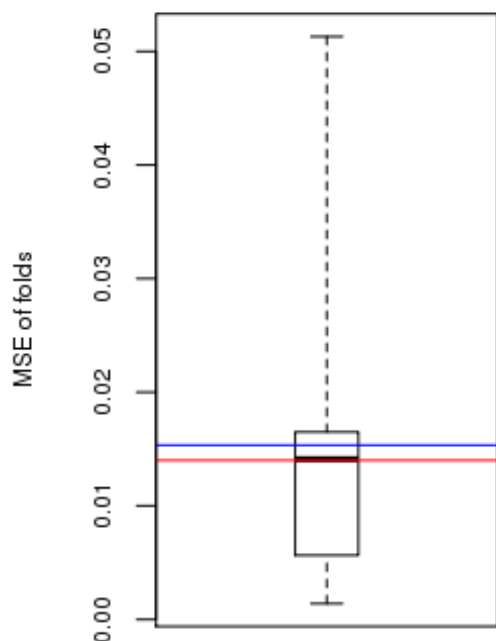




Cross Validation



Minimum MSE of folds: 0.00139
 Mean MSE of folds: 0.01530
 Median MSE of folds: 0.01410
 Maximum MSE of folds: 0.05130
 (Mean MSE of folds) / (Model MSE): 1.10000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

0	Date	logEWDI.SSC.Greater	logEWDI.TSS.Greater	EWDI.SSC.Greater	EWDI.TSS.Greater	Computed logEWDI.SSC.Greater	Computed EWDI.SSC.Greater	Residual	Normal Quantiles	Censored Values
1	2016-04-12	2.03	1.7	106	50	1.85	74.3	0.171	1.37	--
2	2016-05-11	1.81	1.46	64	29	1.61	42.1	0.199	1.62	--
3	2016-06-14	2.48	2.16	299	144	2.33	224	0.141	1.18	--
4	2016-07-14	1.98	1.74	95	55	1.9	82.1	0.0798	0.895	--
5	2016-07-13	1.91	1.73	81	54	1.89	80.5	0.0188	0.383	--
6	2016-05-01	2.3	2.15	200	142	2.33	221	-0.0271	-0.209	--
7	2016-06-28	2.07	1.84	117	69	2	104	0.0674	0.777	--
8	2016-03-23	2.06	1.87	116	74	2.03	112	0.0319	0.474	--
9	2016-04-04	2.16	1.95	143	89	2.12	136	0.0391	0.569	--
10	2016-04-21	2.22	2.14	166	139	2.32	216	-0.0984	-1.03	--
11	2016-04-01	2.69	2.51	495	324	2.7	523	-0.00772	0.0415	--
12	2016-06-08	1.9	1.62	79	42	1.78	61.9	0.122	1.03	--
13	2016-06-09	2.15	1.93	140	86	2.1	131	0.0454	0.669	--
14	2016-04-21	1.04	1	11	10	1.12	13.8	-0.0834	-0.777	--
15	2016-04-29	2.52	2.4	332	252	2.59	402	-0.0672	-0.569	--
16	2016-06-27	1	1.04	10	11	1.17	15.3	-0.168	-1.37	--
17	2016-04-03	2.59	2.4	385	254	2.59	406	-0.00646	0.125	--
18	2016-05-11	2.28	2.15	191	142	2.33	221	-0.0471	-0.474	--

19	2016-06-21	2.52	2.36	328	229	2.54	364	-0.0291	-0.295	--
20	2016-05-11	1.76	1.28	57	19	1.42	27	0.34	2.06	--
21	2016-04-03	1.26	1.3	18	20	1.44	28.5	-0.184	-2.06	--
22	2016-05-03	2.73	2.53	541	342	2.73	553	0.00635	0.209	--
23	2016-04-02	2.52	2.4	332	254	2.59	406	-0.0708	-0.669	--
24	2016-05-24	2.18	2.1	152	127	2.28	197	-0.0957	-0.895	--
25	2016-04-27	2.4	2.24	253	173	2.42	272	-0.0146	-0.125	--
26	2016-05-03	0.903	0.954	8	9	1.08	12.4	-0.174	-1.62	--
27	2016-08-05	1.8	1.79	63	62	1.95	93	-0.153	-1.18	--
28	2016-06-01	2.32	2.19	211	154	2.36	240	-0.0407	-0.383	--
29	2016-06-21	2.51	2.31	324	206	2.5	326	0.0136	0.295	--
30	2016-04-03	2.49	2.32	310	207	2.5	328	-0.00775	-0.0415	--

Definitions

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

App Version 1.0