

Model Statistics, Data, and Plots

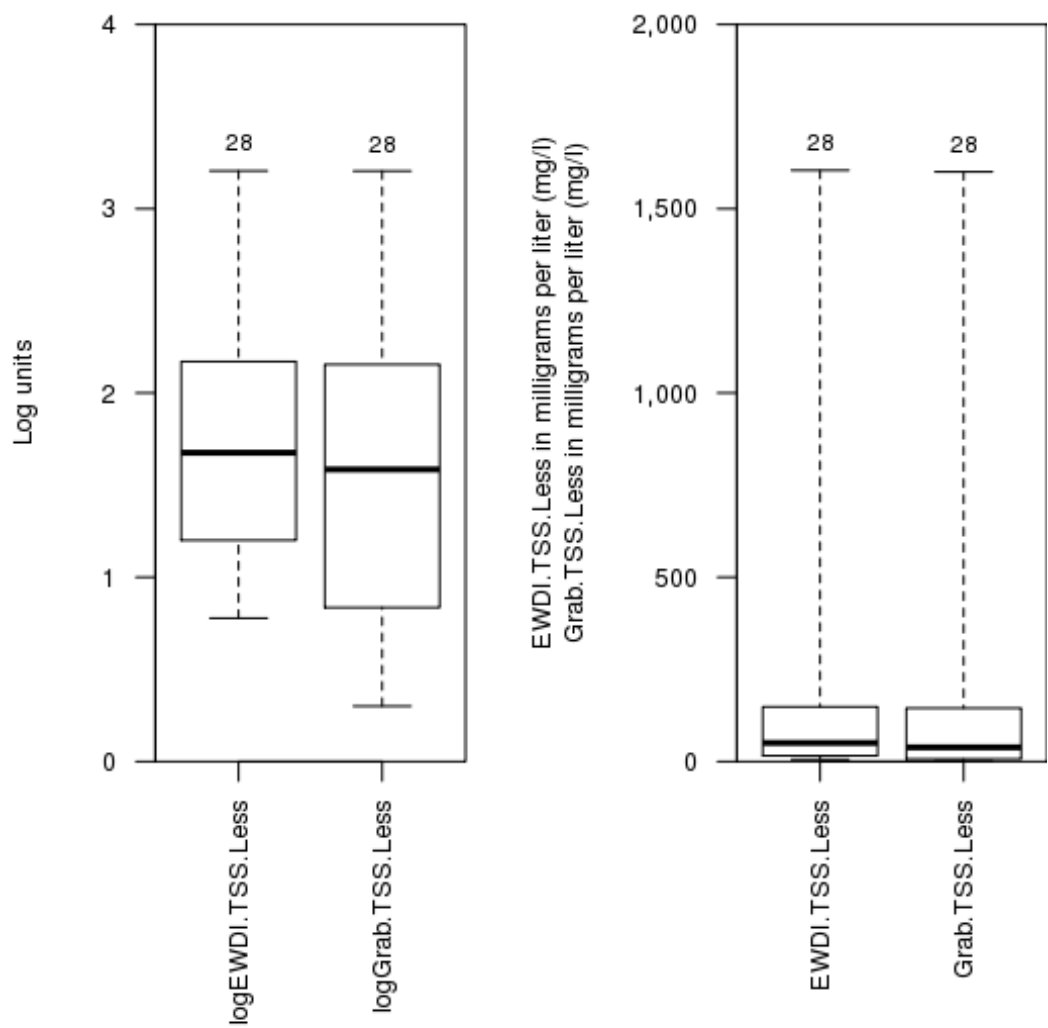
Model

$\text{logEWDI.TSS.Less} = + 0.852 * \text{logGrab.TSS.Less} + 0.379$

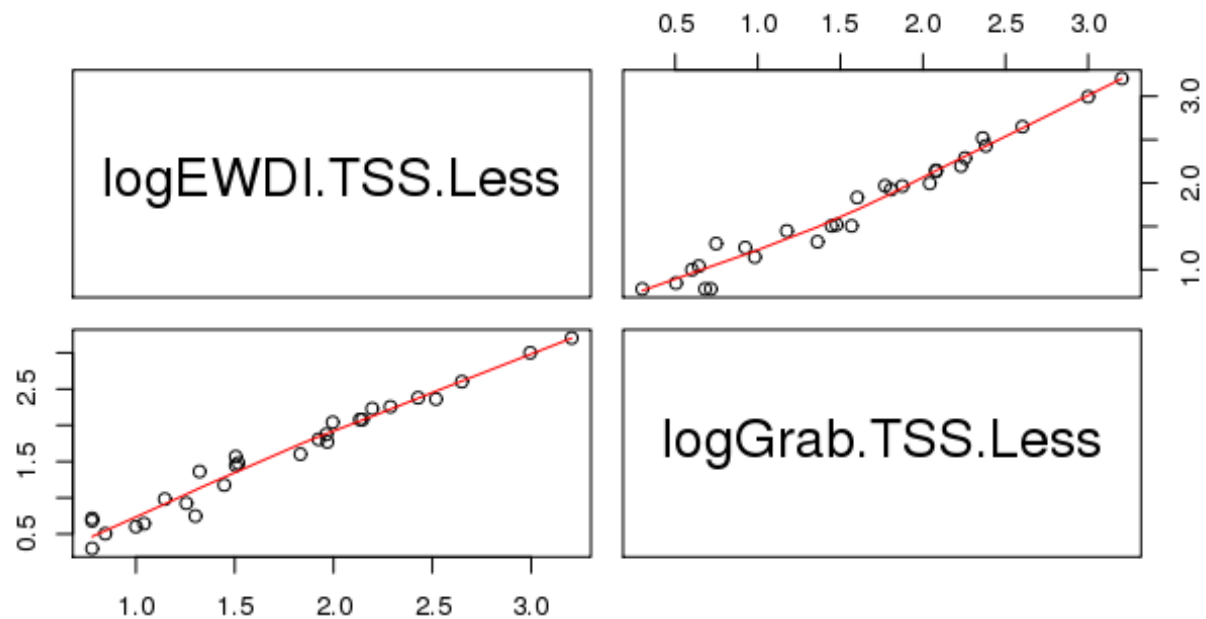
Variable Summary Statistics

	logEWDI.TSS.Less	EWDI.TSS.Less	logGrab.TSS.Less	Grab.TSS.Less
Minimum	0.778	6.0	0.301	2.0
1st Quartile	1.200	16.0	0.836	7.0
Median	1.680	50.5	1.590	38.5
Mean	1.730	177.0	1.590	164.0
3rd Quartile	2.170	148.0	2.150	145.0
Maximum	3.210	1600.0	3.200	1600.0

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	28
Standard error (RMSE)	0.125
Average Model standard percentage error (MSPE)	29.2
Coefficient of determination (R^2)	0.967
Adjusted Coefficient of Determination (Adj. R^2)	0.966
Bias Correction Factor (BCF)	1.04

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	0.379	0.0542	6.99	2.03e-07
logGrab.TSS.Less	0.852	0.0307	27.70	7.68e-21

Correlation Matrix

	Intercept	E.vars
Intercept	1.0	-0.9
E.vars	-0.9	1.0

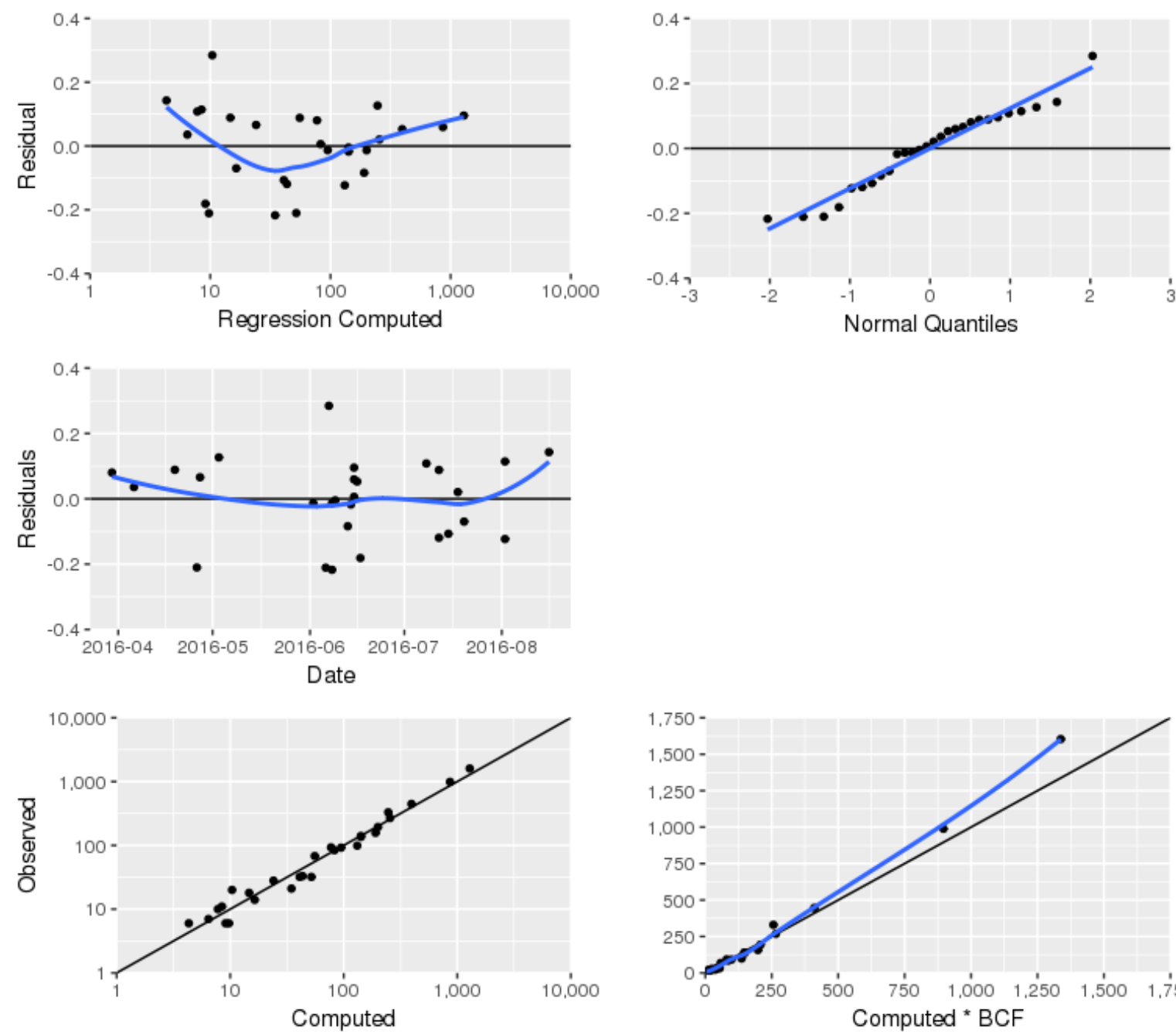
Outlier Test Criteria

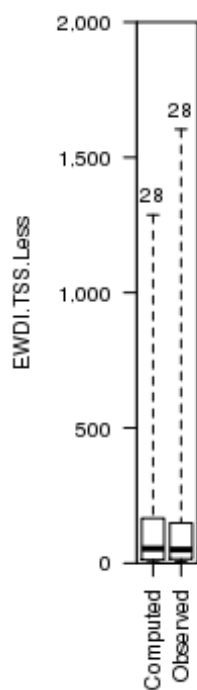
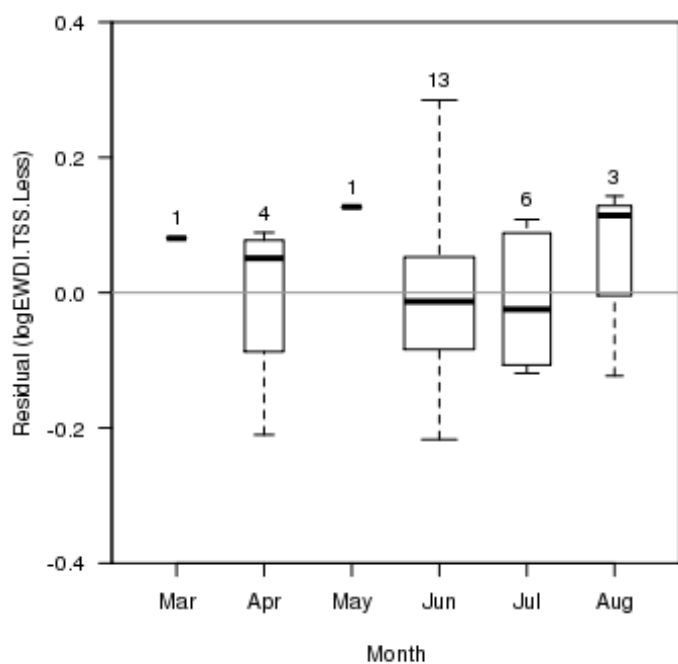
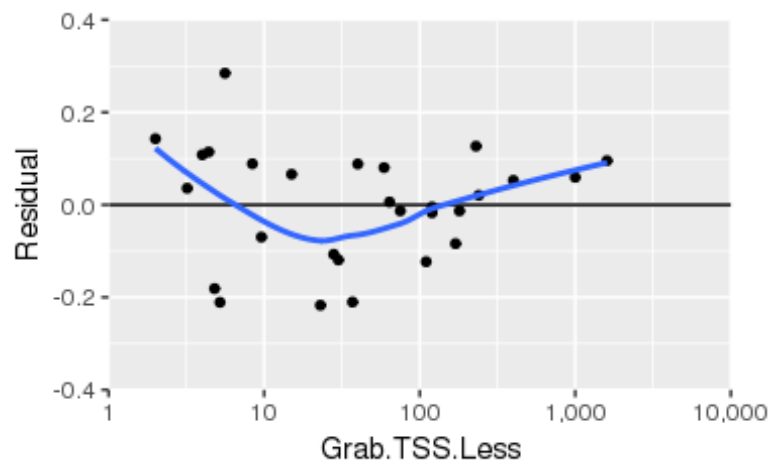
Leverage	Cook's D	DFFITS
0.107	0.106	0.378

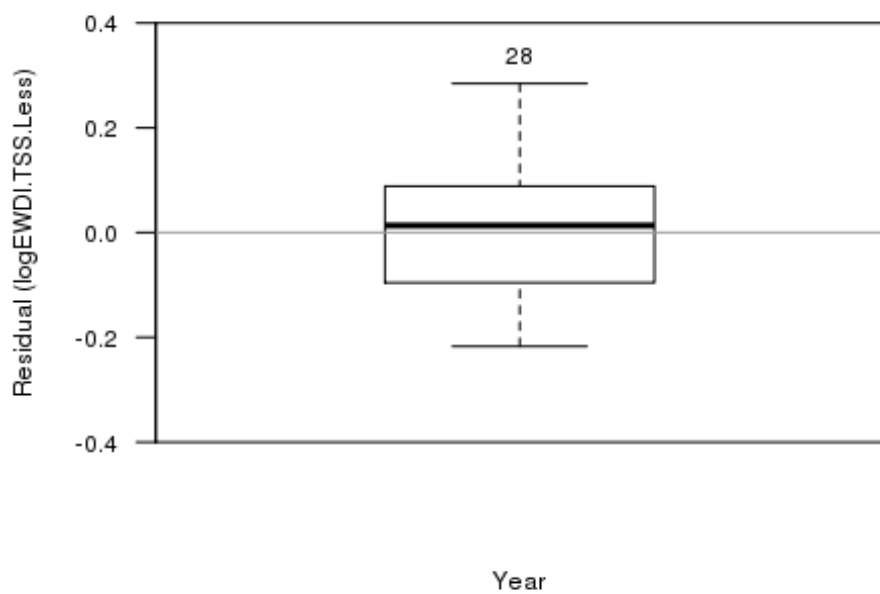
Flagged Observations

	logEWDI.TSS.Less	Estimate	Residual	Standard	Residual	Studentized	Residual	Leverage	Cook's D	DFFITS
6/15/2016 17:35	3.000	2.940	0.0595		0.517		0.509	0.1560	0.0247	0.219
6/17/2016 11:40	0.778	0.959	-0.1810		-1.510		-1.550	0.0850	0.1060	-0.473
6/15/2016 9:05	3.210	3.110	0.0955		0.849		0.844	0.1930	0.0863	0.413
6/6/2016 13:05	0.778	0.989	-0.2110		-1.760		-1.830	0.0813	0.1360	-0.546
6/7/2016 10:50	1.300	1.020	0.2850		2.370		2.620	0.0780	0.2370	0.762
8/16/2016 9:40	0.778	0.635	0.1430		1.230		1.240	0.1350	0.1180	0.490

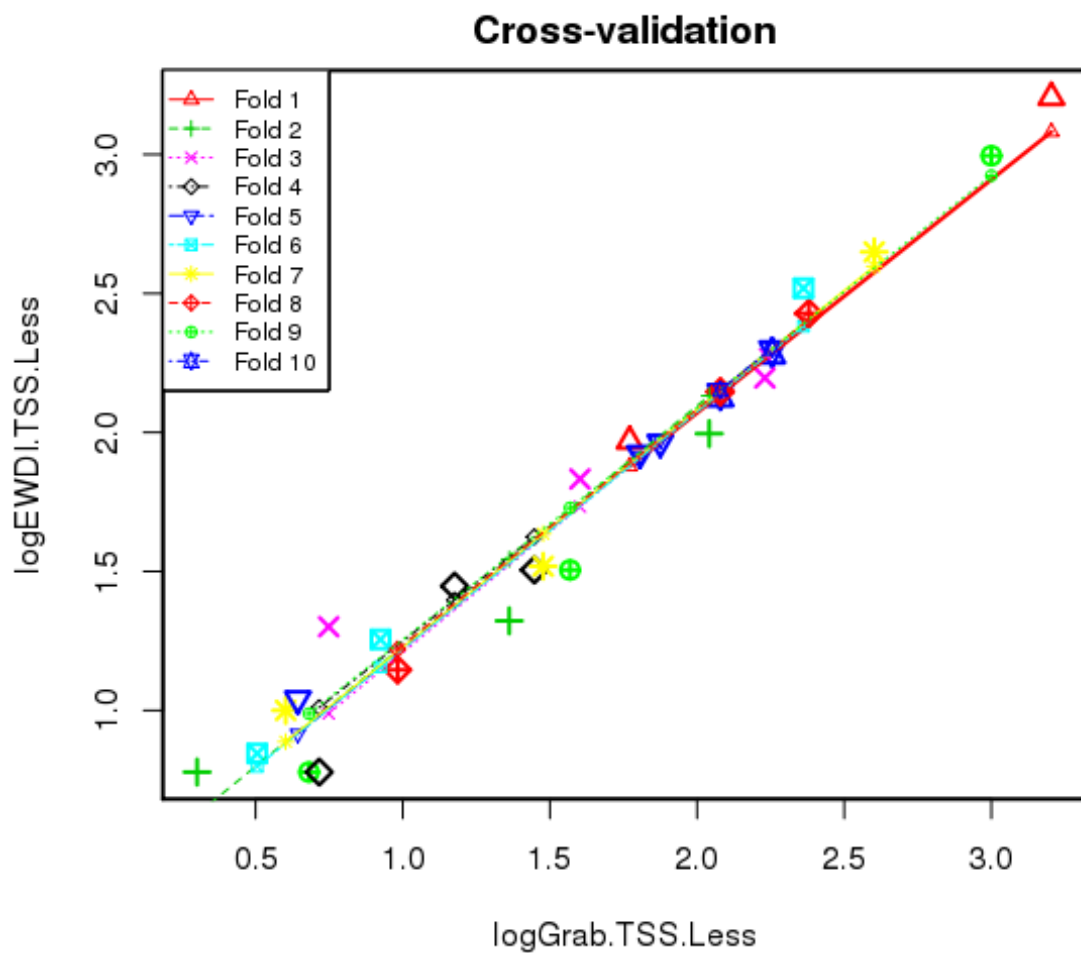
Statistical Plots



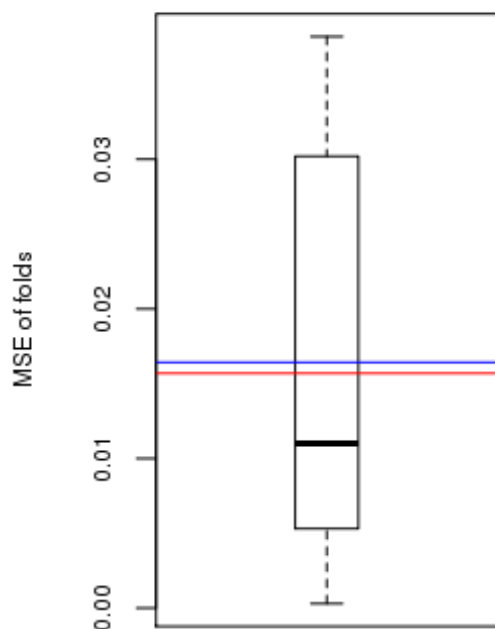




Cross Validation



Minimum MSE of folds: 0.000298
 Mean MSE of folds: 0.016400
 Median MSE of folds: 0.011000
 Maximum MSE of folds: 0.038200
 (Mean MSE of folds) / (Model MSE): 1.050000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

0	Date	logEWDI.TSS.Less	logGrab.TSS.Less	EWDI.TSS.Less	Grab.TSS.Less	Computed logEWDI.TSS.Less	Computed EWDI.TSS.Less	Residual	Normal Quantiles	Censored Values
1	2016-04-27	1.45	1.18	28	15	1.38	25	0.066	0.411	--
2	2016-07-18	2.43	2.38	268	240	2.41	265	0.0207	0.0445	--
3	2016-06-15	3	3	989	1000	2.94	896	0.0595	0.316	--
4	2016-06-02	2.29	2.26	194	180	2.3	208	-0.0132	-0.316	--
5	2016-05-03	2.52	2.36	330	230	2.39	256	0.127	1.33	--
6	2016-06-16	2.65	2.6	446	400	2.6	410	0.0528	0.224	--
7	2016-06-14	2.13	2.08	136	120	2.15	147	-0.0173	-0.411	--
8	2016-06-13	2.2	2.23	157	170	2.28	198	-0.0839	-0.614	--
9	2016-07-15	1.51	1.45	32	28	1.61	42.5	-0.107	-0.726	--
10	2016-04-06	0.845	0.505	7	3.2	0.809	6.7	0.0359	0.134	--
11	2016-06-17	0.778	0.681	6	4.8	0.959	9.46	-0.181	-1.14	--
12	2016-06-09	2.15	2.08	140	120	2.15	147	-0.00475	-0.134	--
13	2016-08-02	2	2.04	99	110	2.12	137	-0.123	-0.982	--
14	2016-06-15	3.21	3.2	1600	1600	3.11	1340	0.0955	0.847	--
15	2016-03-30	1.97	1.77	93	59	1.89	80.3	0.0804	0.51	--

16	2016-06-08	1.32	1.36	21	23	1.54	36	-0.217	-2.03	--
17	2016-04-26	1.51	1.57	32	37	1.72	53.9	-0.21	-1.33	--
18	2016-06-15	1.92	1.81	84	64	1.92	86	0.0061	-0.0445	--
19	2016-04-19	1.26	0.924	18	8.4	1.17	15.2	0.0888	0.726	--
20	2016-06-06	0.778	0.716	6	5.2	0.989	10.1	-0.211	-1.58	--
21	2016-07-12	1.52	1.48	33	30	1.64	45.1	-0.119	-0.847	--
22	2016-07-08	1	0.602	10	4	0.892	8.1	0.108	0.982	--
23	2016-07-12	1.83	1.6	68	40	1.74	57.6	0.0883	0.614	--
24	2016-07-20	1.15	0.982	14	9.6	1.22	17.1	-0.0698	-0.51	--
25	2016-08-02	1.04	0.643	11	4.4	0.927	8.78	0.114	1.14	--
26	2016-06-07	1.3	0.748	20	5.6	1.02	10.8	0.285	2.03	--
27	2016-08-16	0.778	0.301	6	2	0.635	4.49	0.143	1.58	--
28	2016-06-08	1.96	1.88	92	75	1.98	98.5	-0.0131	-0.224	--

Definitions

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

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

App Version 1.0