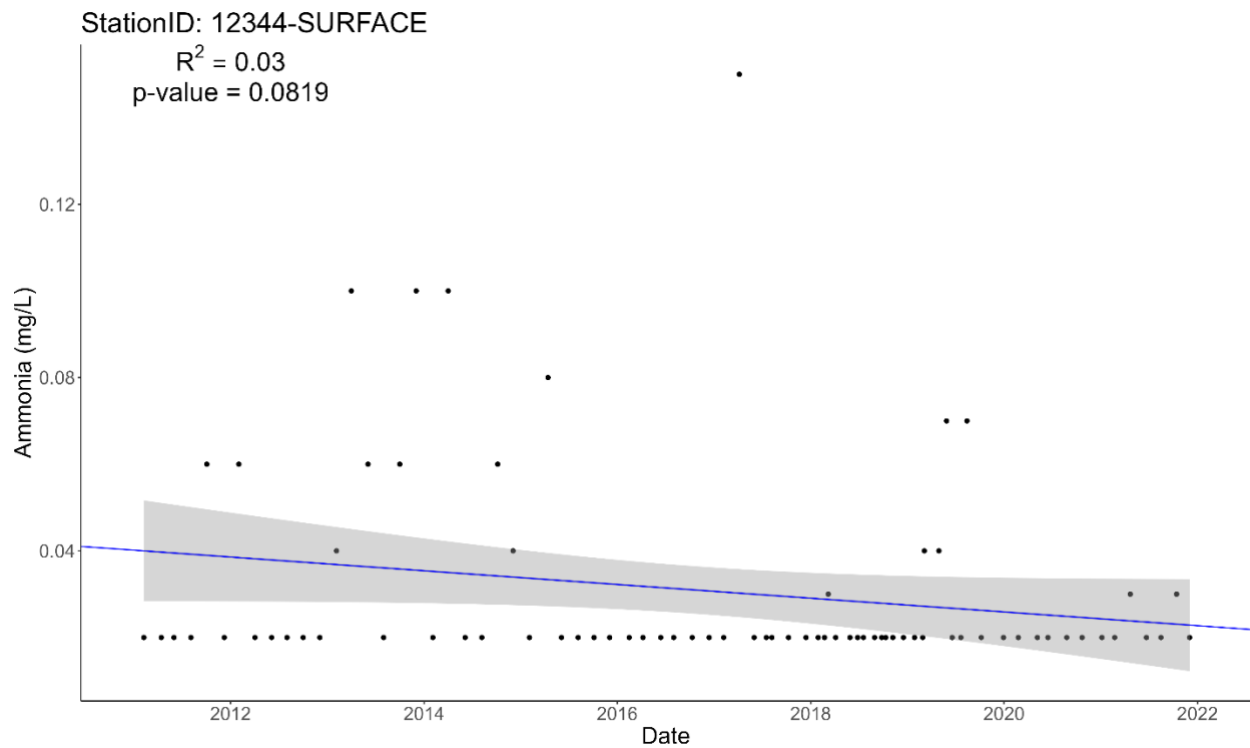
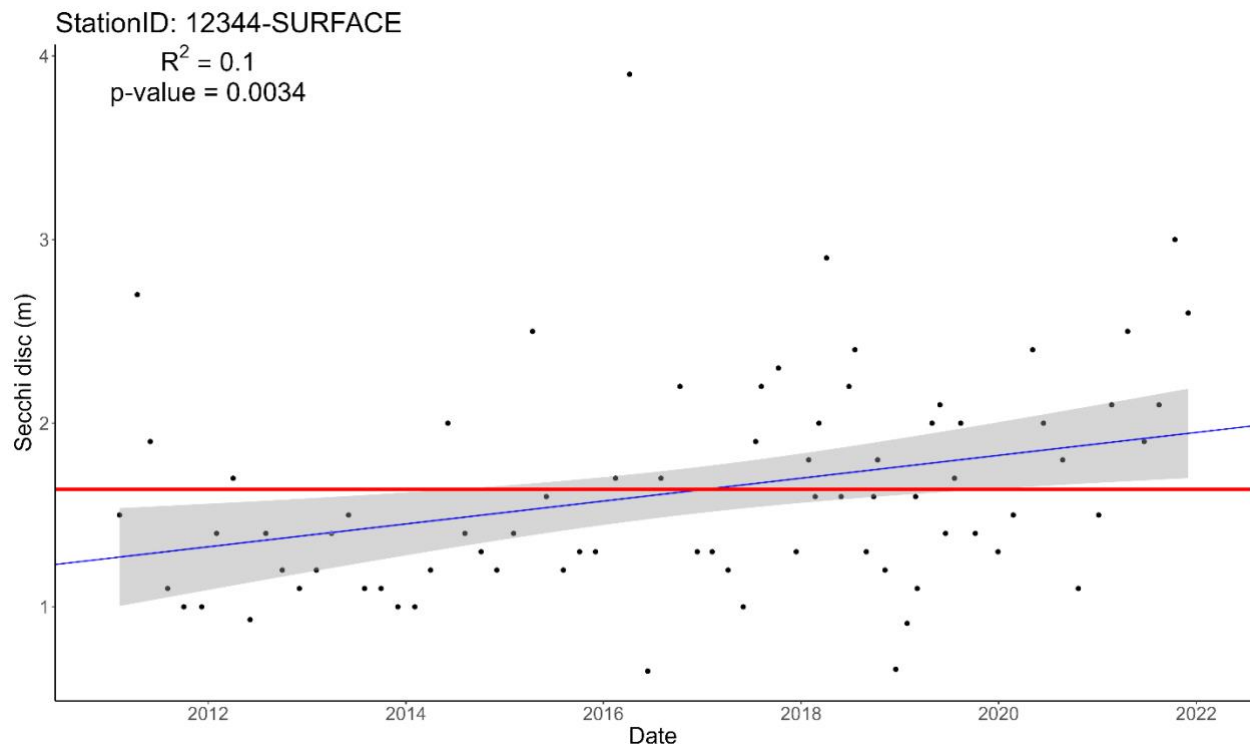


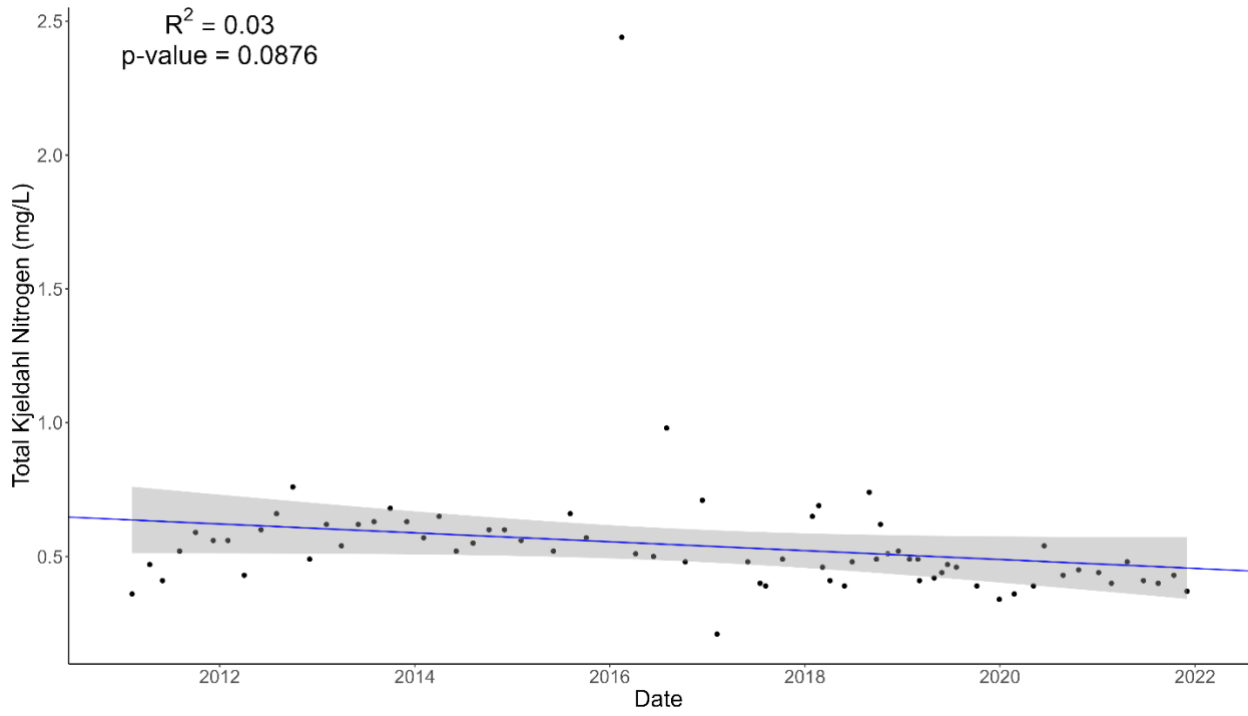
Appendix X6

Significant temporal trend graphs for all stations in the Buchanan Basin by segment.

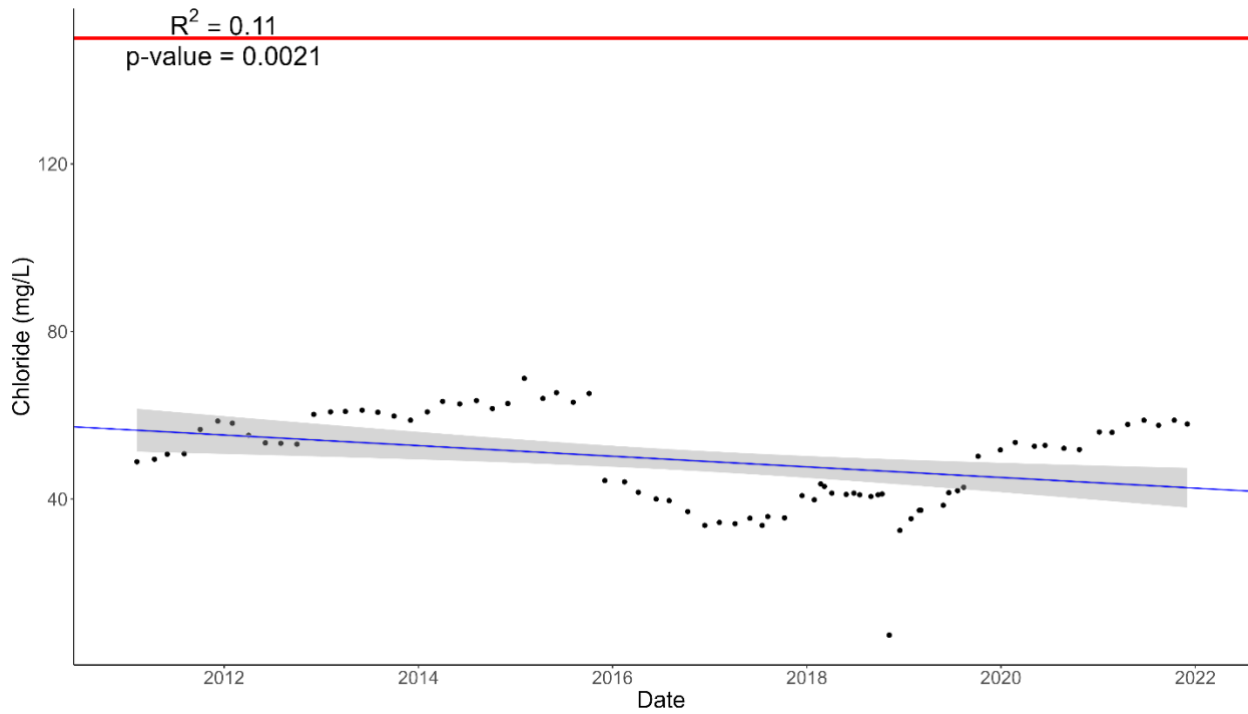
1408 – Lake Buchanan



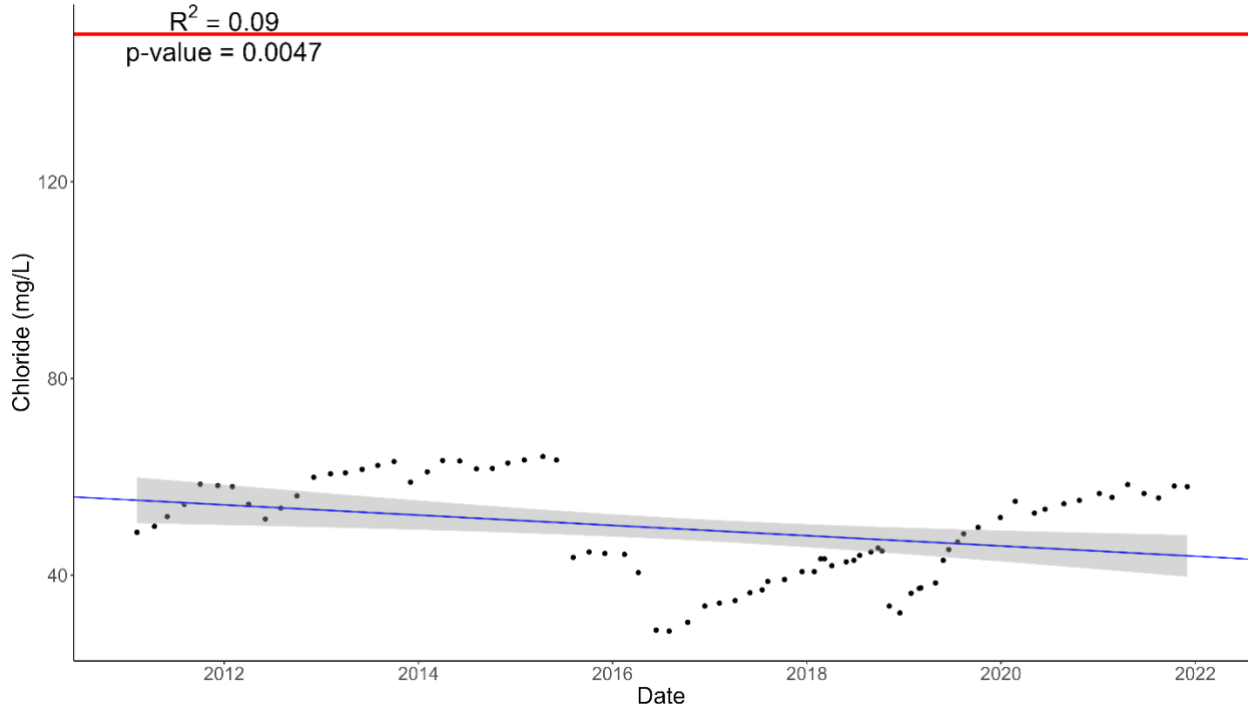
StationID: 12344-SURFACE



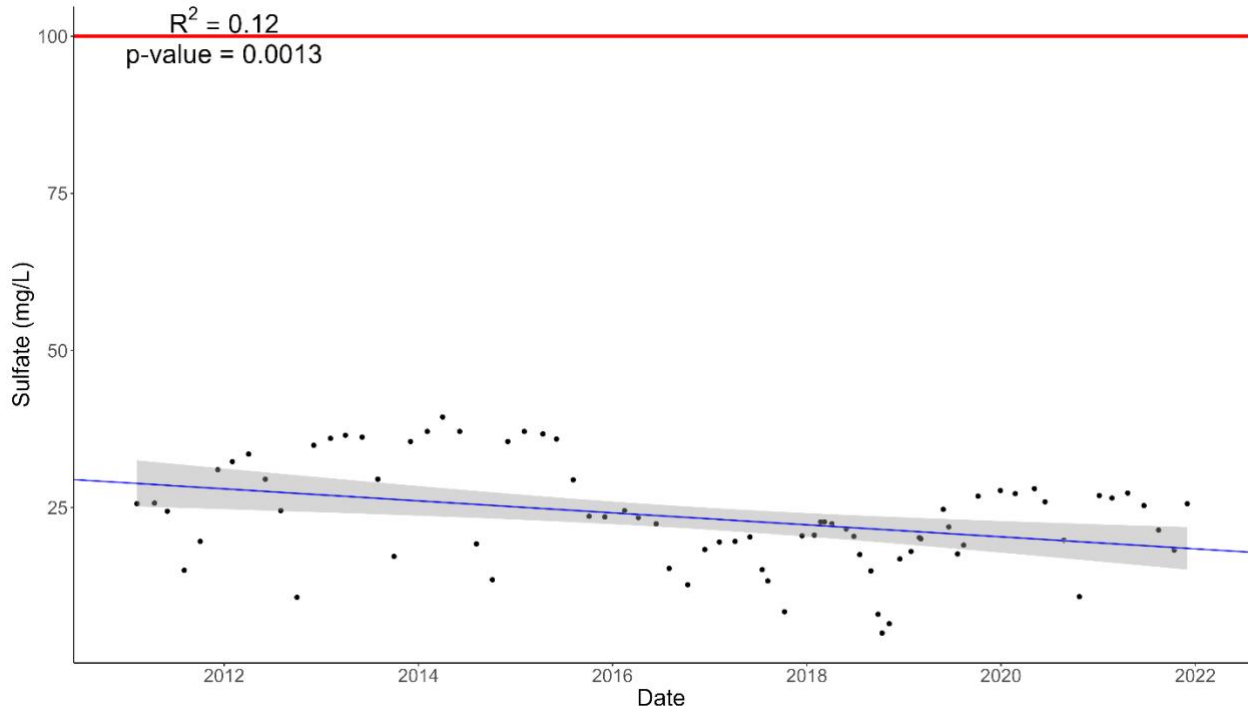
StationID: 12344-BOTTOM



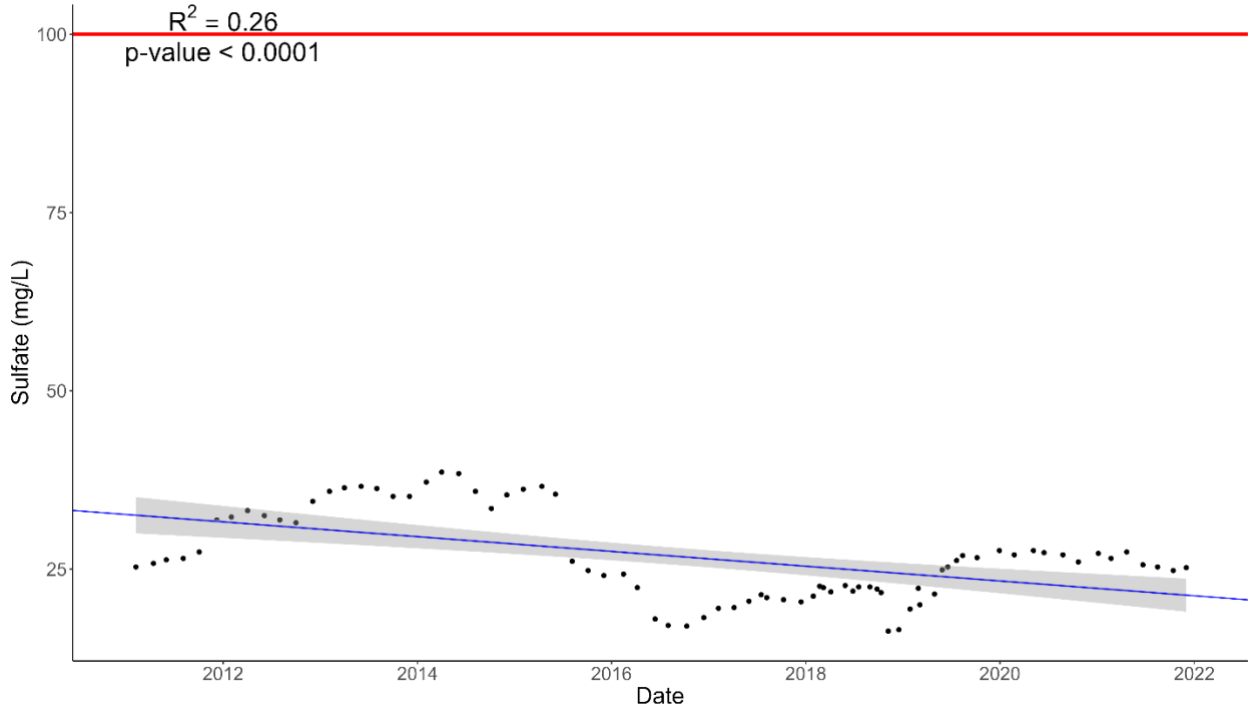
StationID: 12344-SURFACE



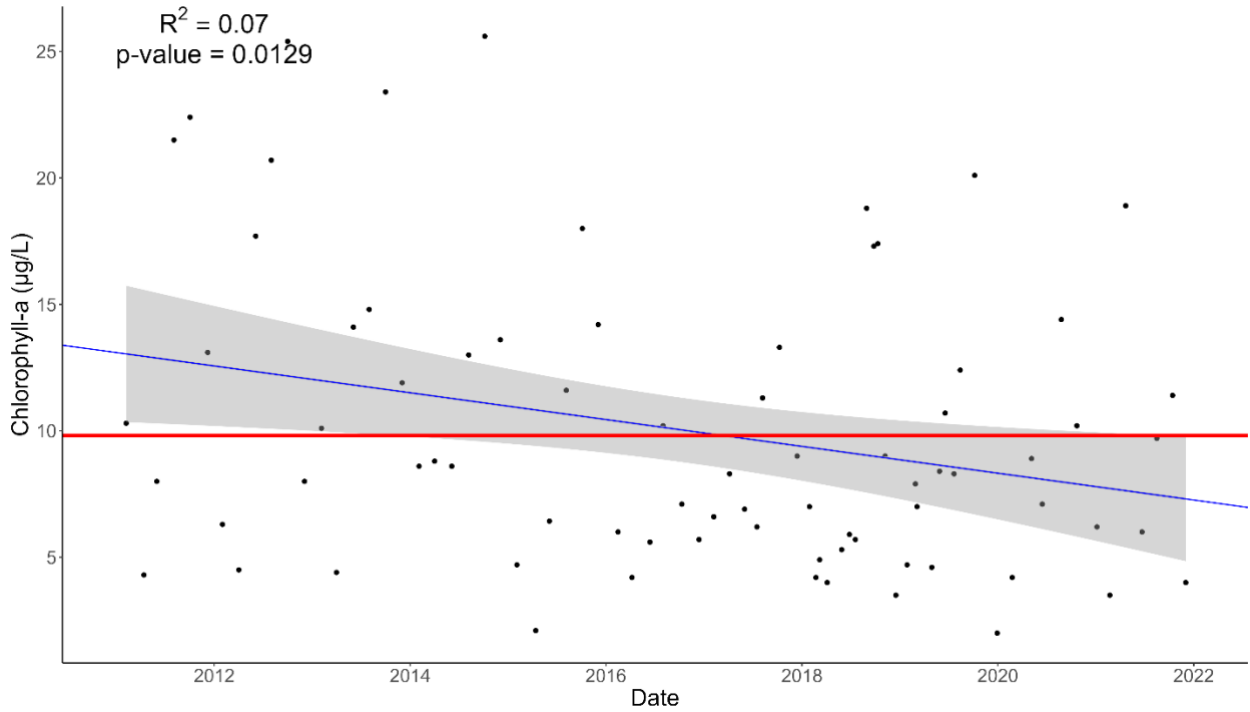
StationID: 12344-BOTTOM



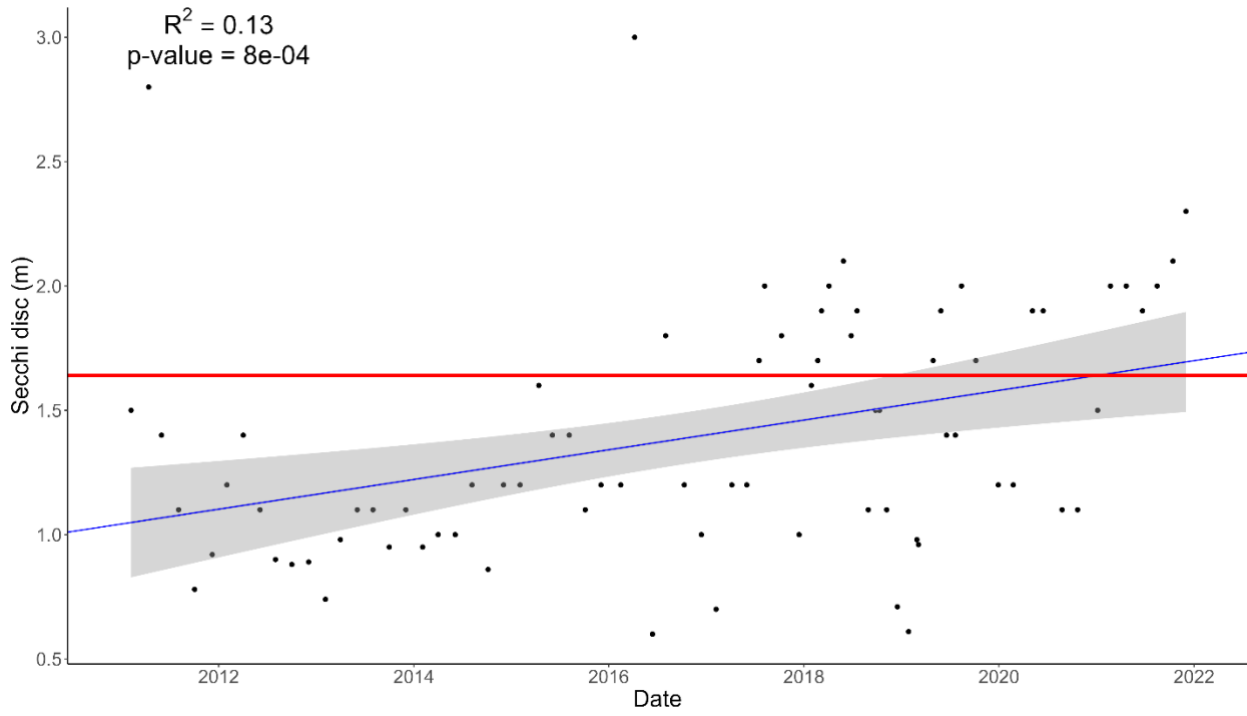
StationID: 12344-SURFACE



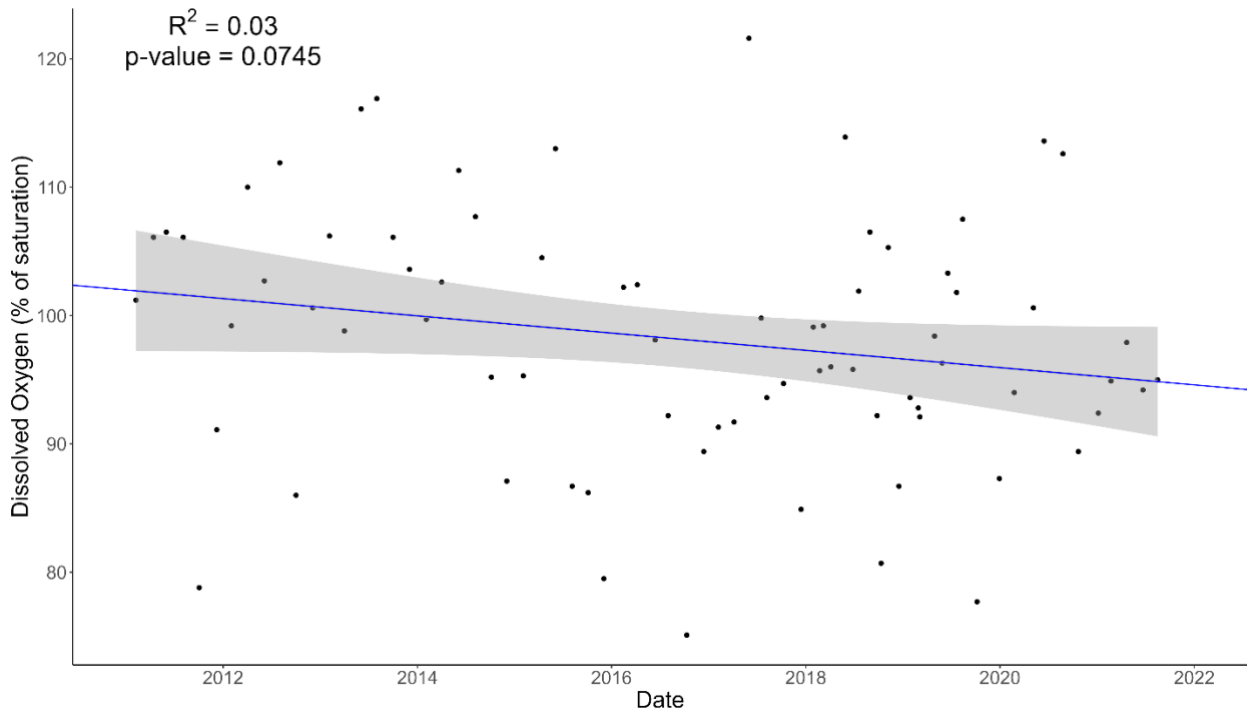
StationID: 12344-SURFACE



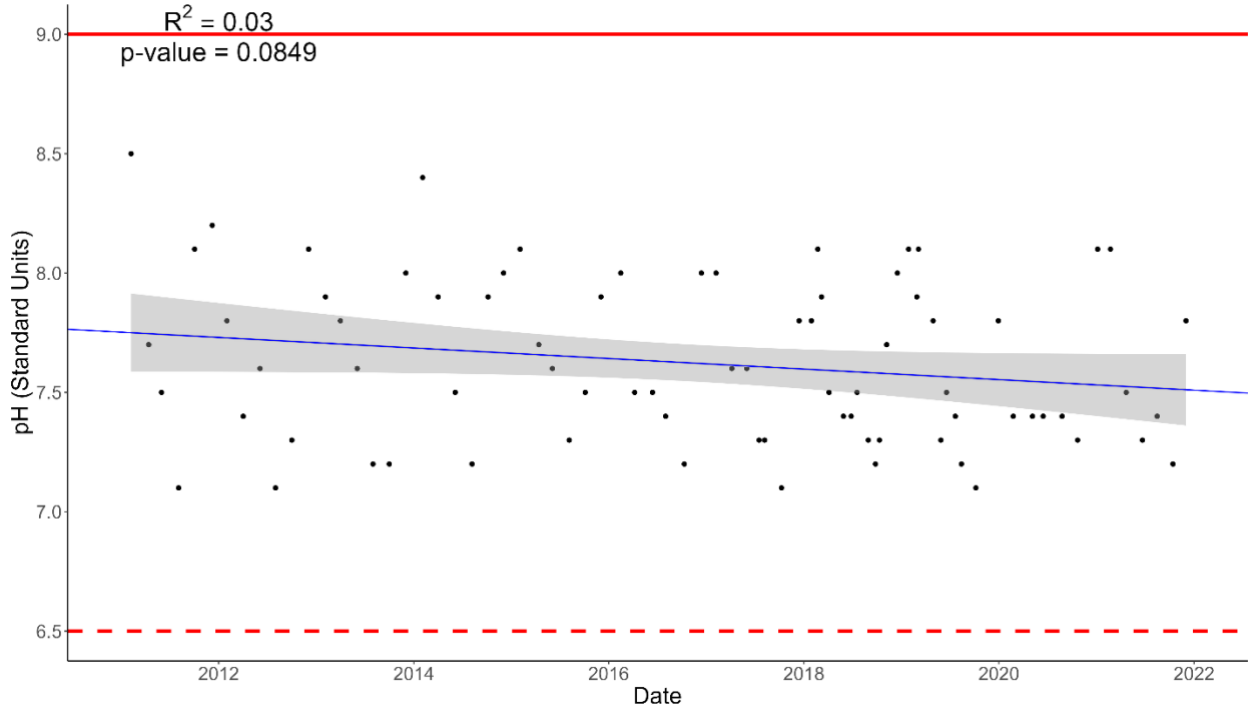
StationID: 12347-SURFACE



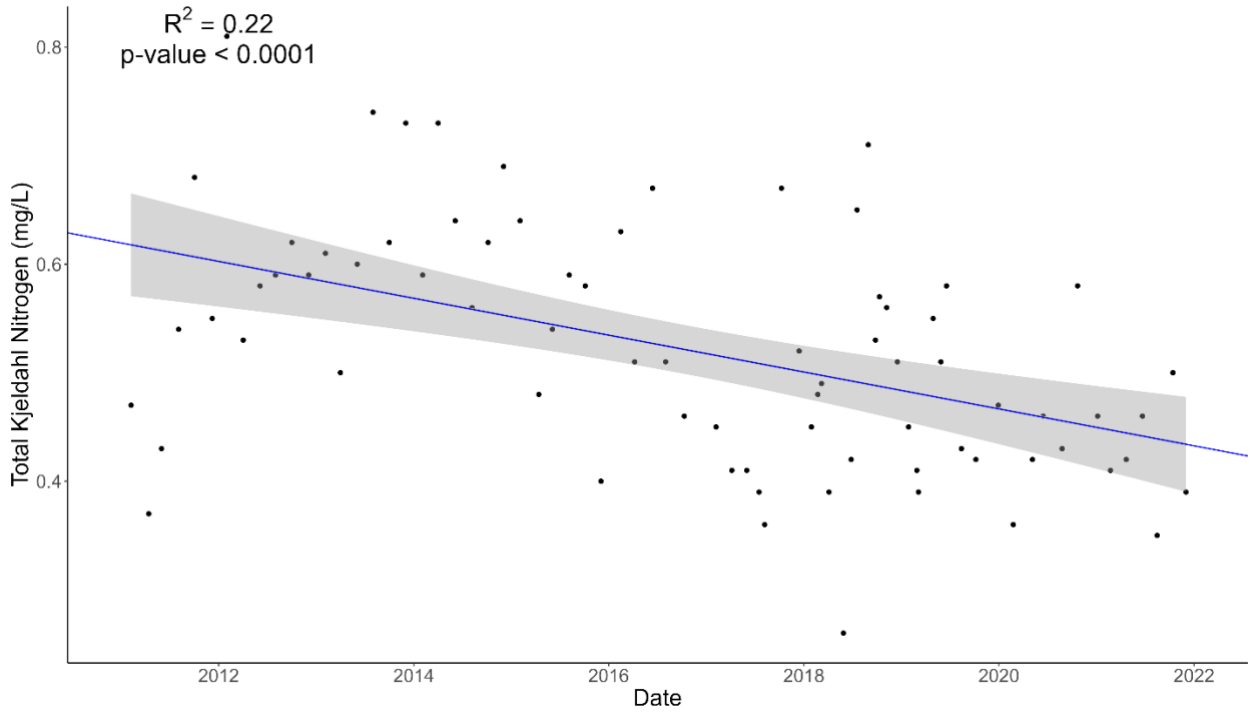
StationID: 12347-SURFACE



StationID: 12347-BOTTOM

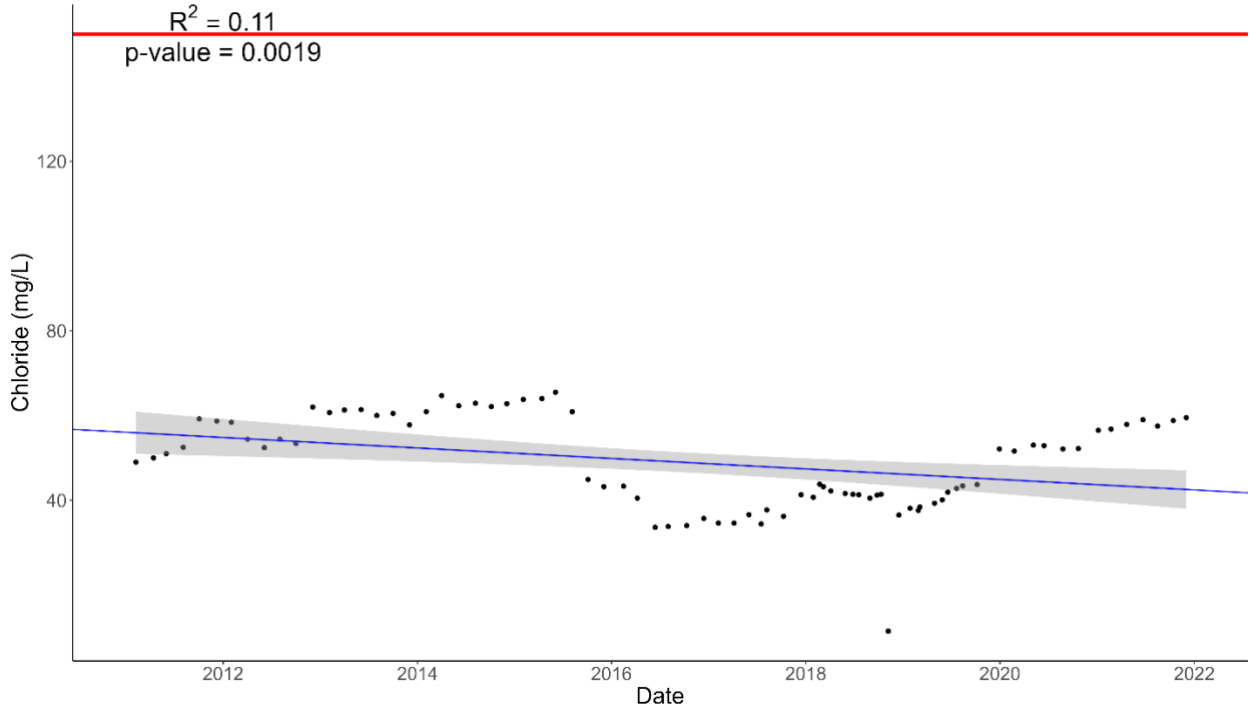


StationID: 12347-SURFACE



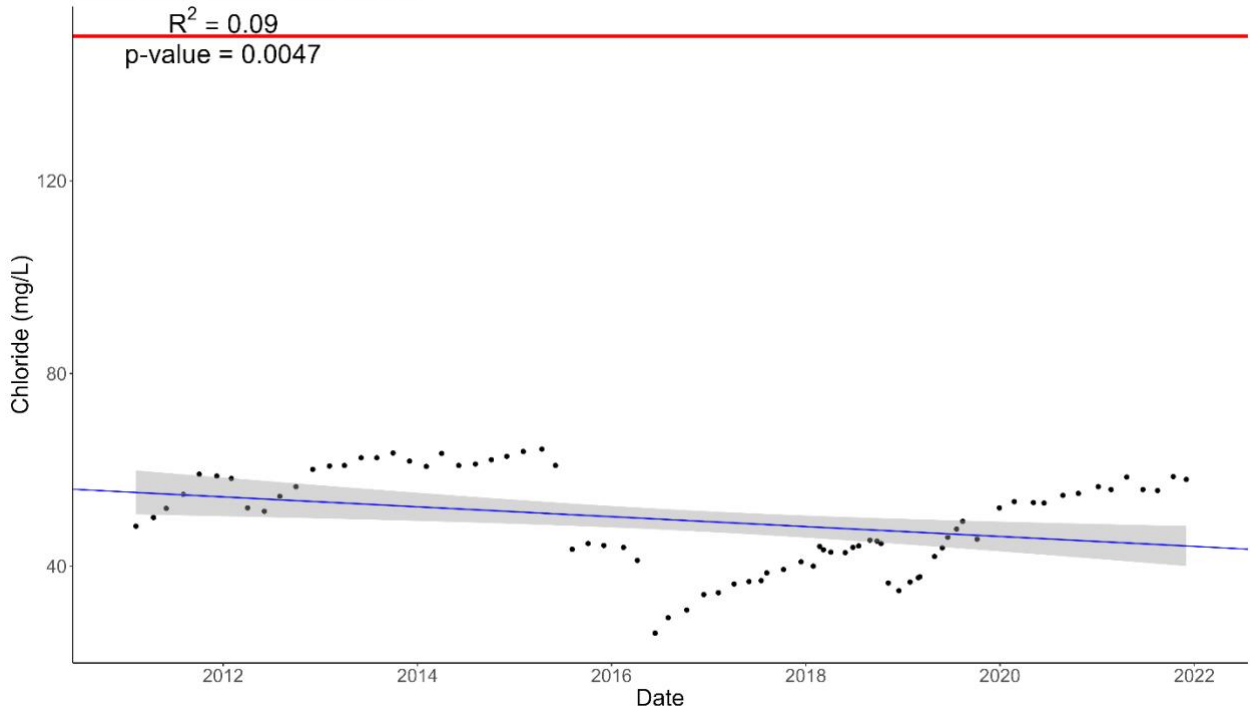
StationID: 12347-BOTTOM

$R^2 = 0.11$
p-value = 0.0019

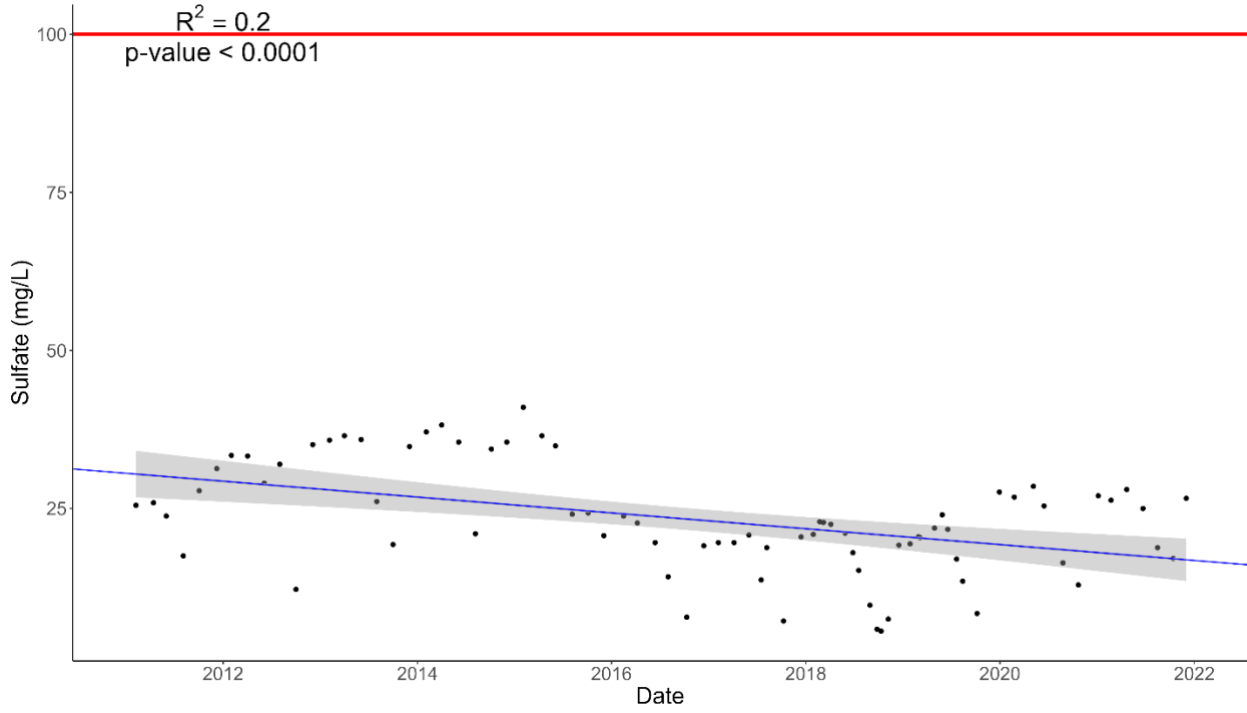


StationID: 12347-SURFACE

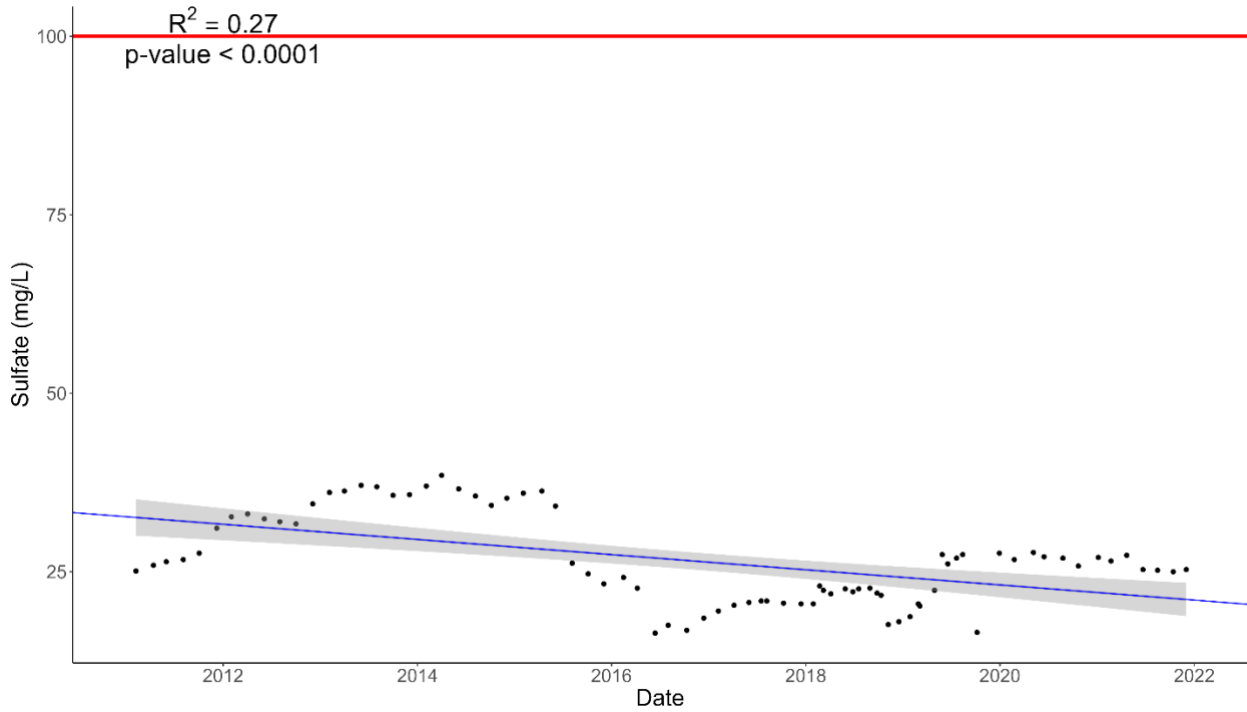
$R^2 = 0.09$
p-value = 0.0047



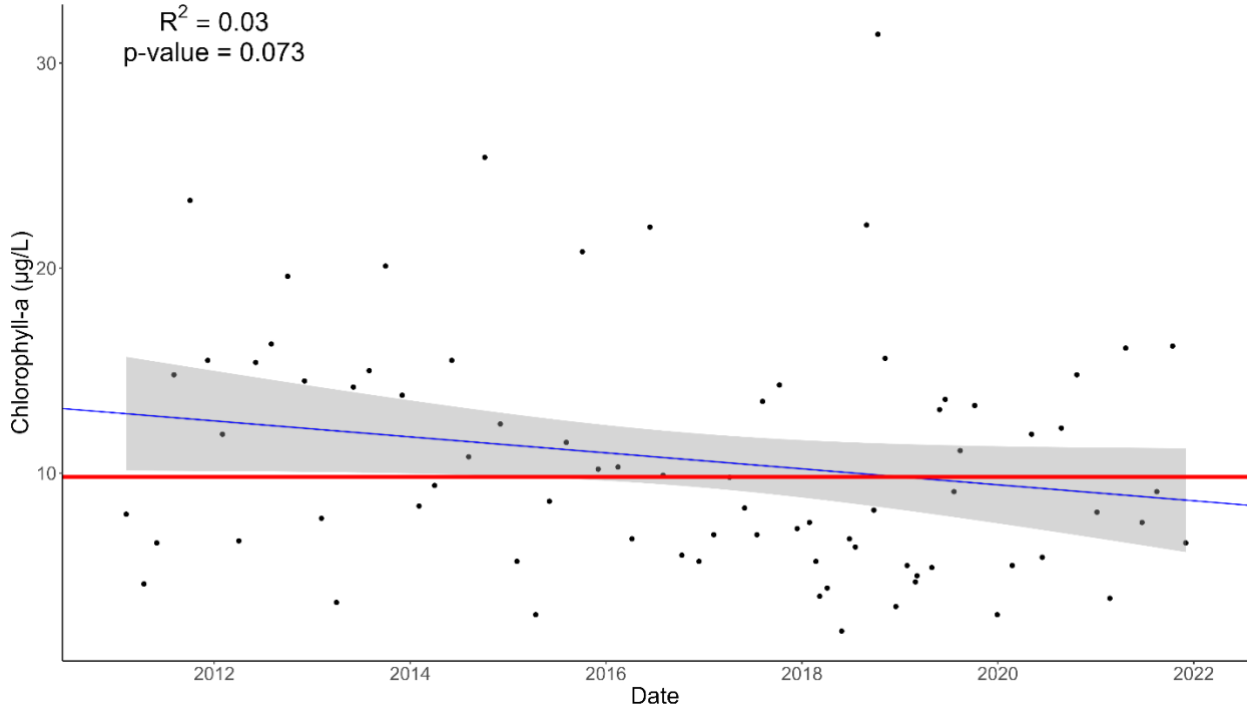
StationID: 12347-BOTTOM



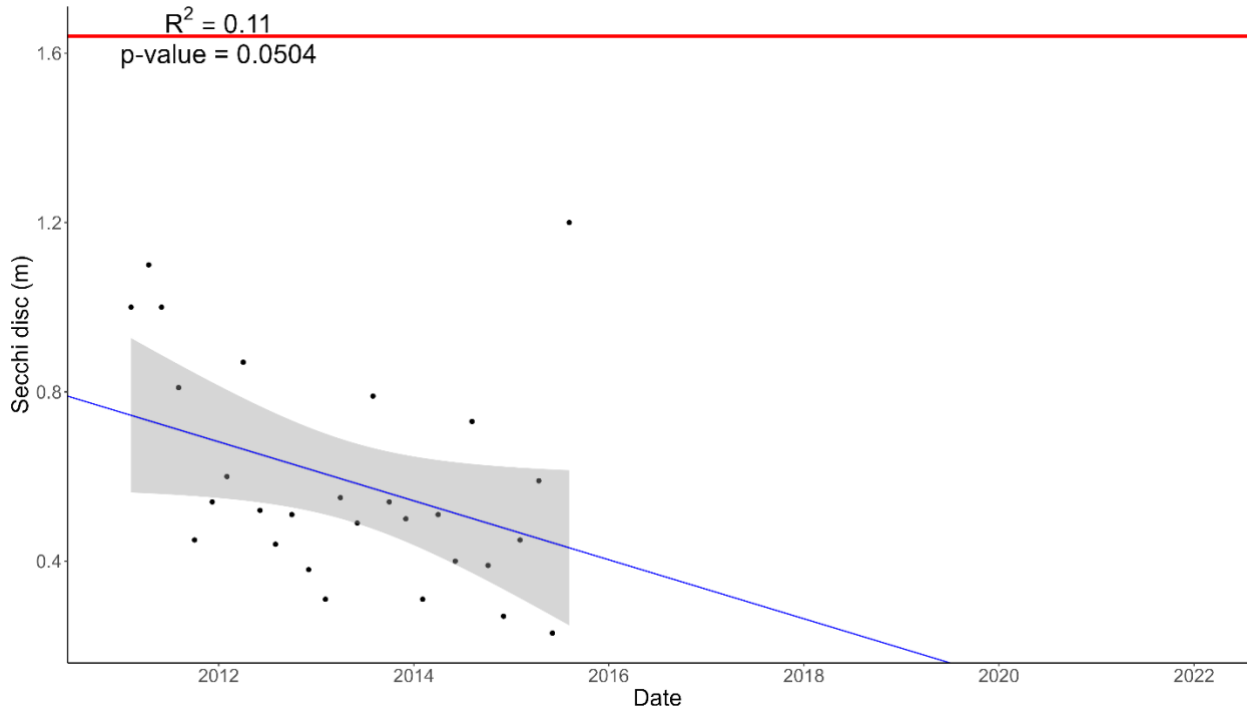
StationID: 12347-SURFACE



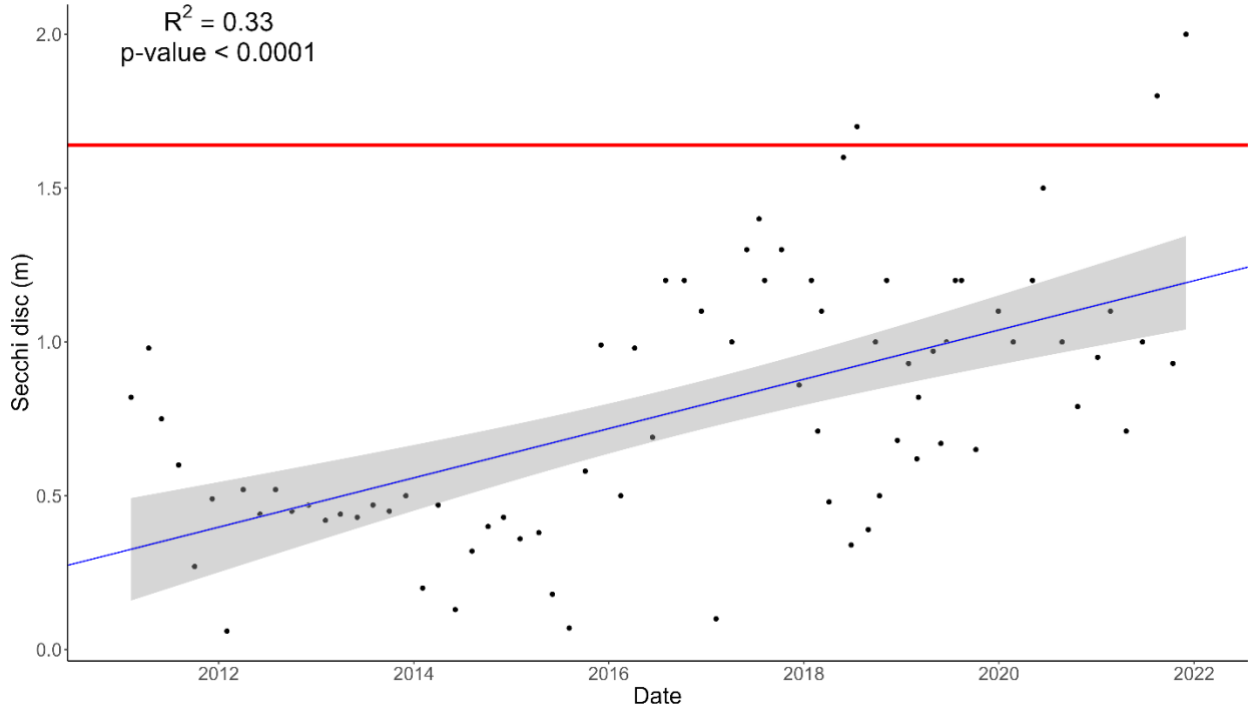
StationID: 12347-SURFACE



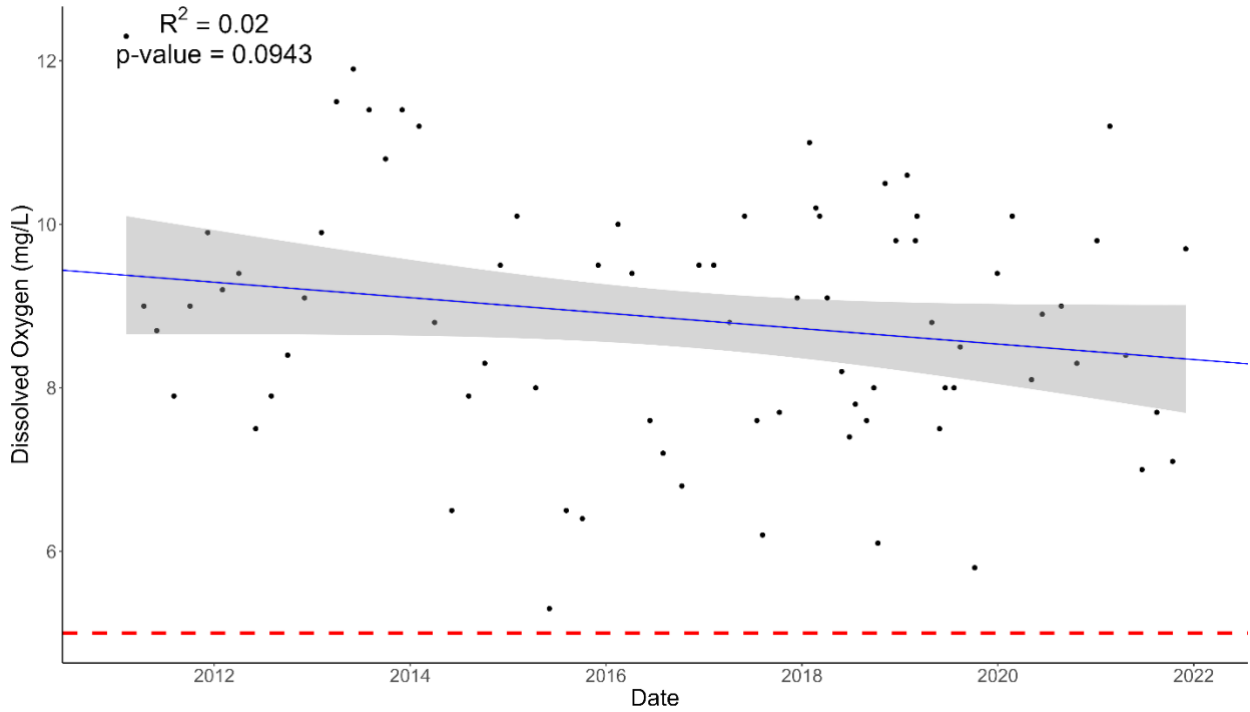
StationID: 12350-SURFACE



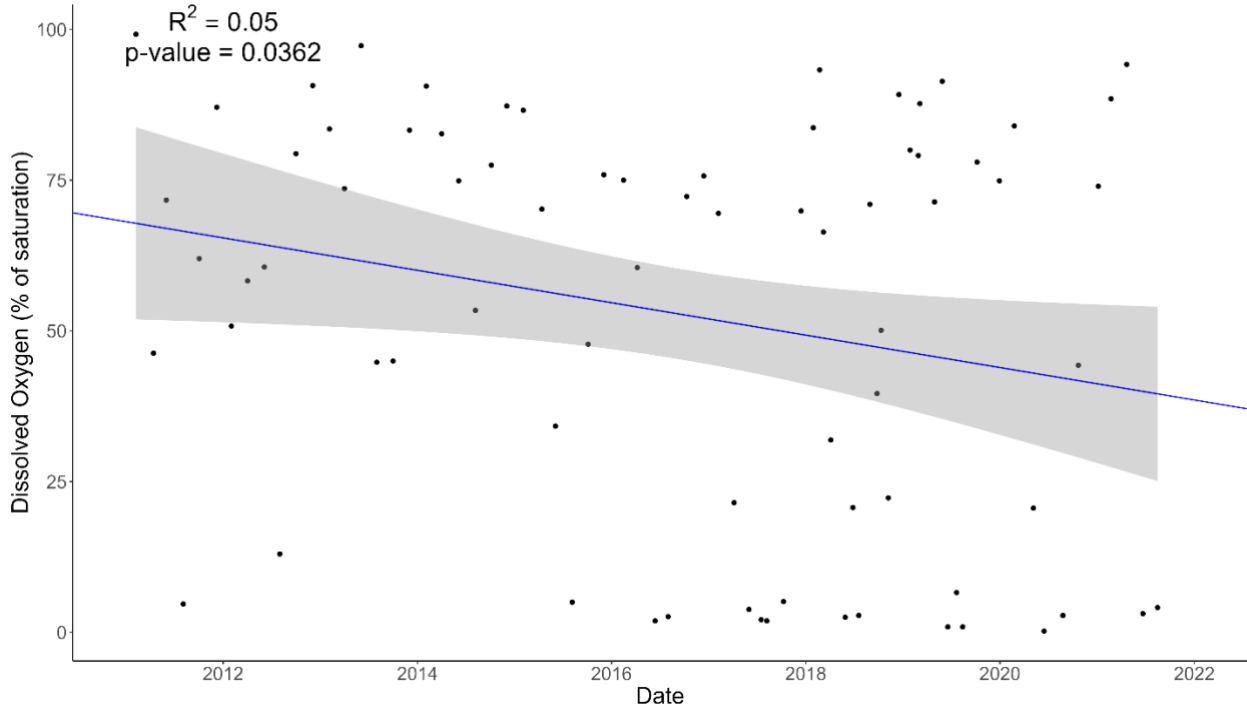
StationID: 12352-SURFACE



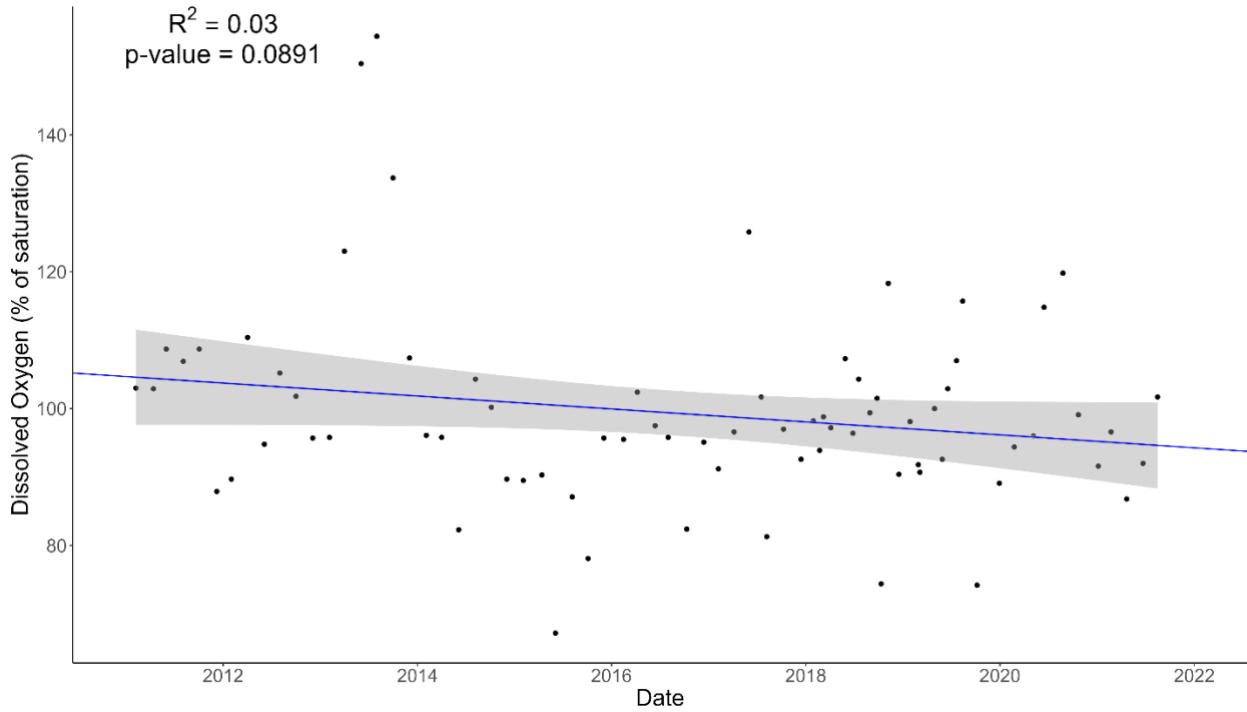
StationID: 12352-SURFACE



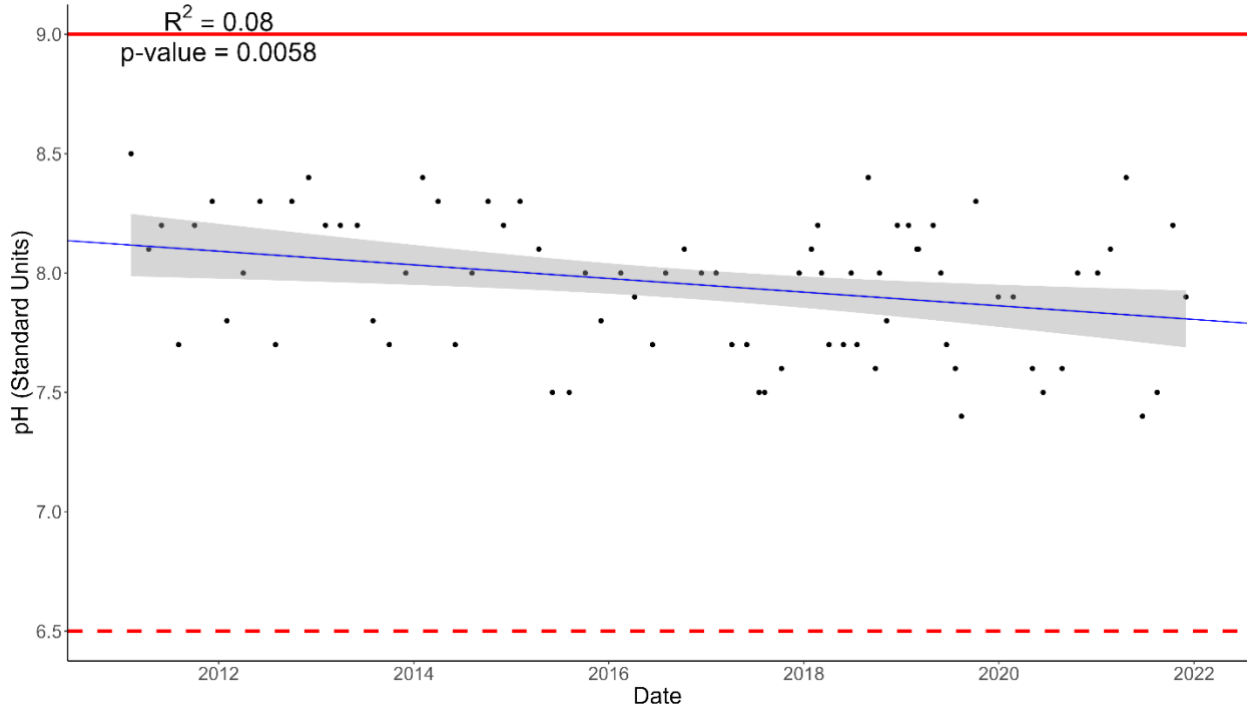
StationID: 12352-BOTTOM



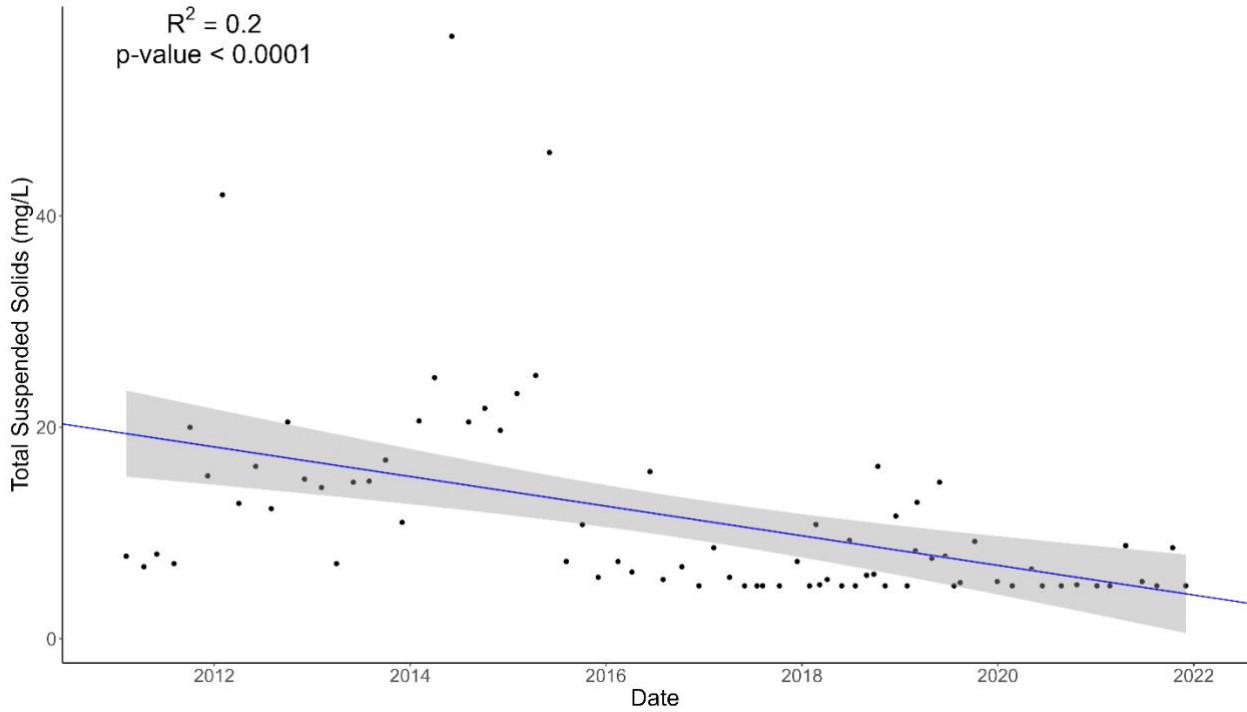
StationID: 12352-SURFACE



StationID: 12352-BOTTOM

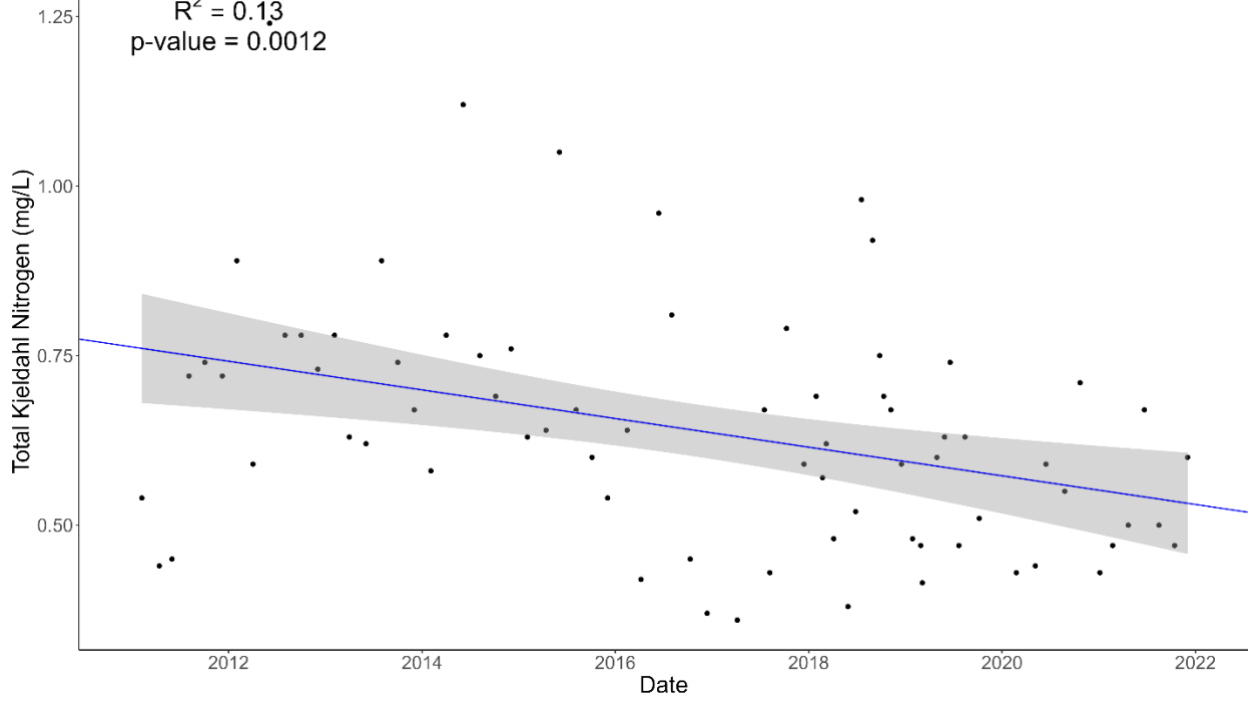


StationID: 12352-SURFACE



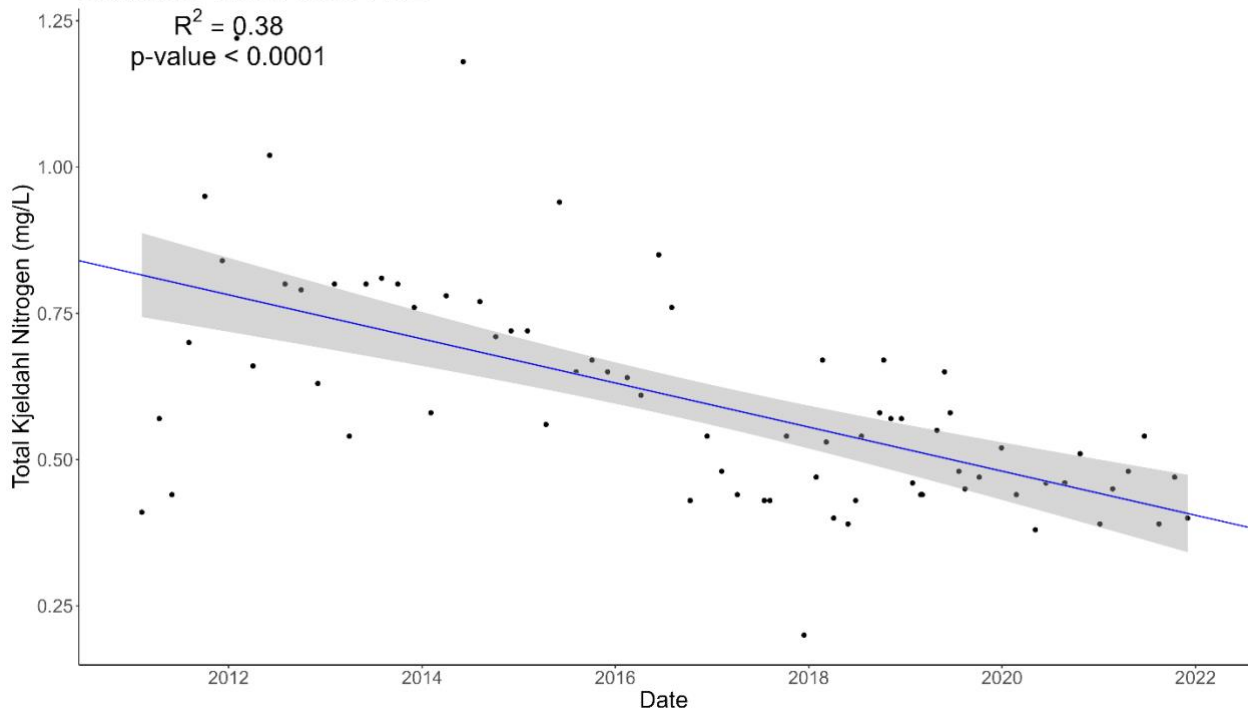
StationID: 12352-BOTTOM

$R^2 = 0.13$
p-value = 0.0012

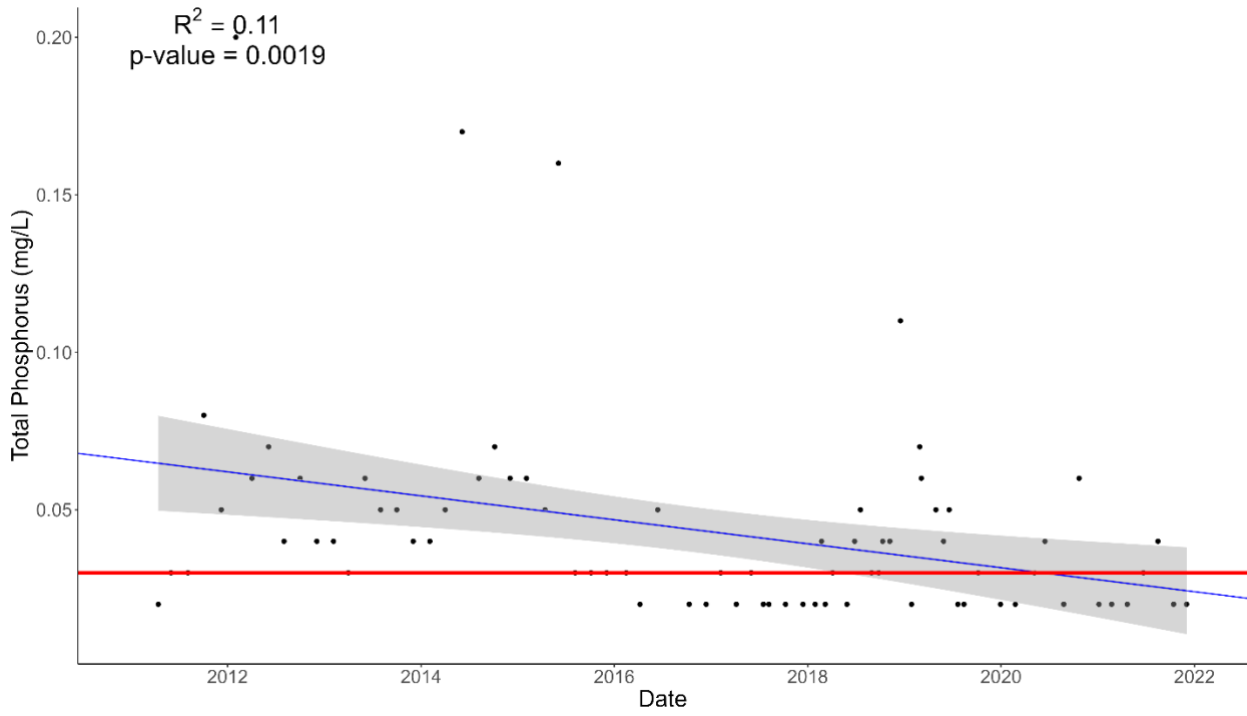


StationID: 12352-SURFACE

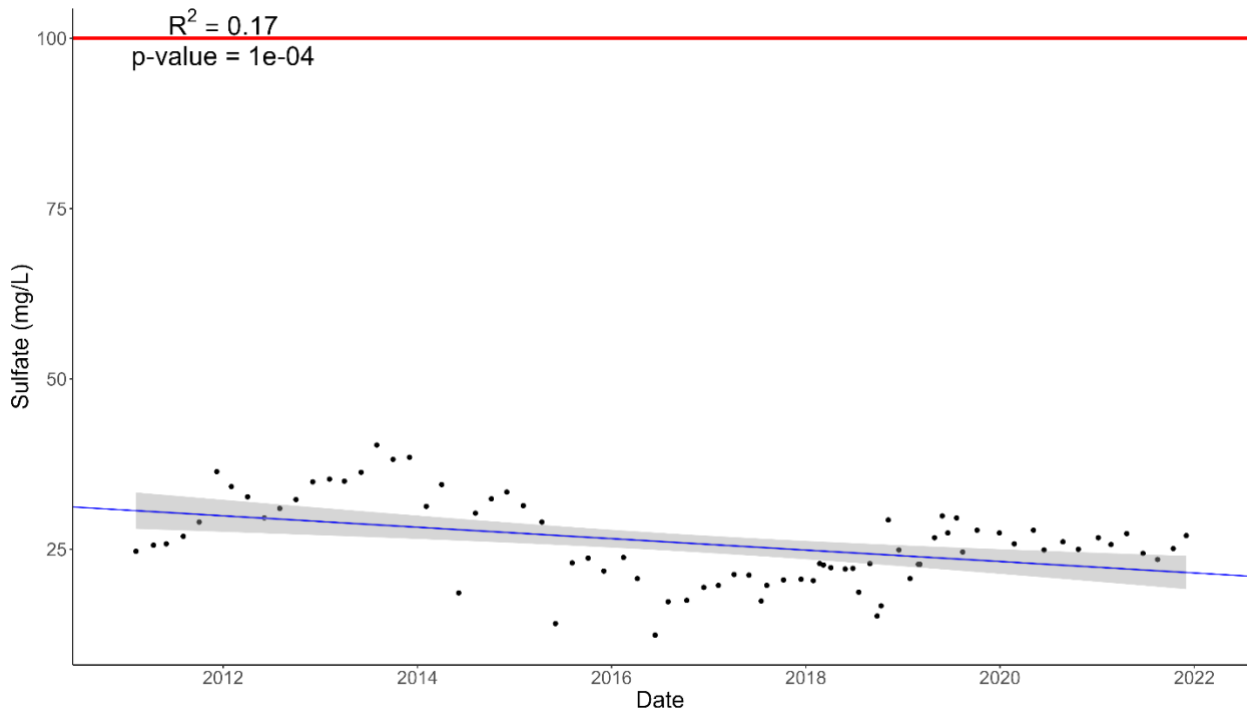
$R^2 = 0.38$
p-value < 0.0001



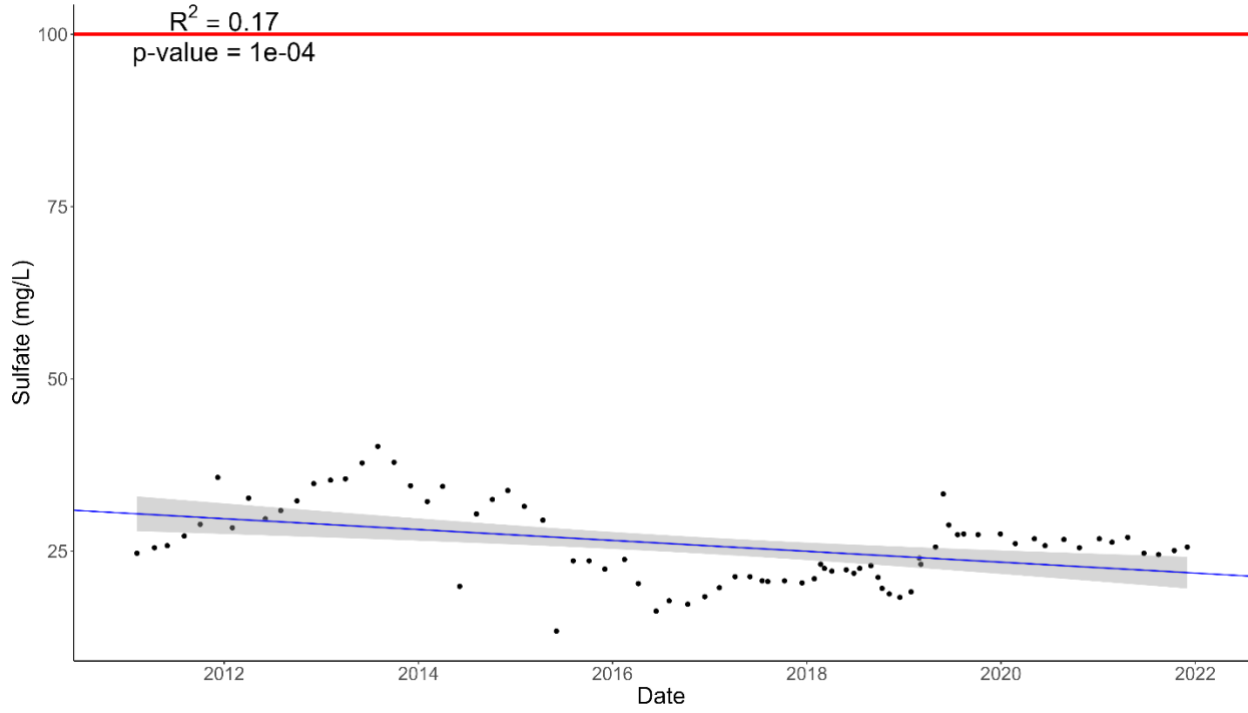
StationID: 12352-SURFACE



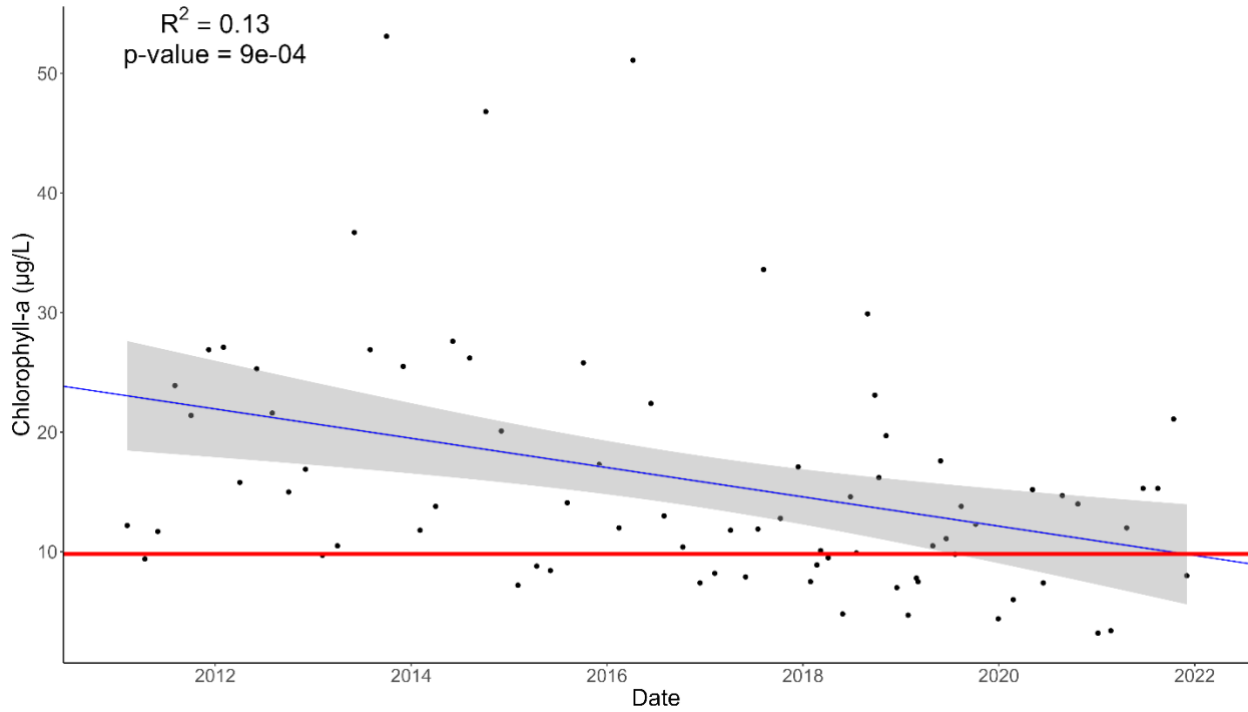
StationID: 12352-BOTTOM



StationID: 12352-SURFACE

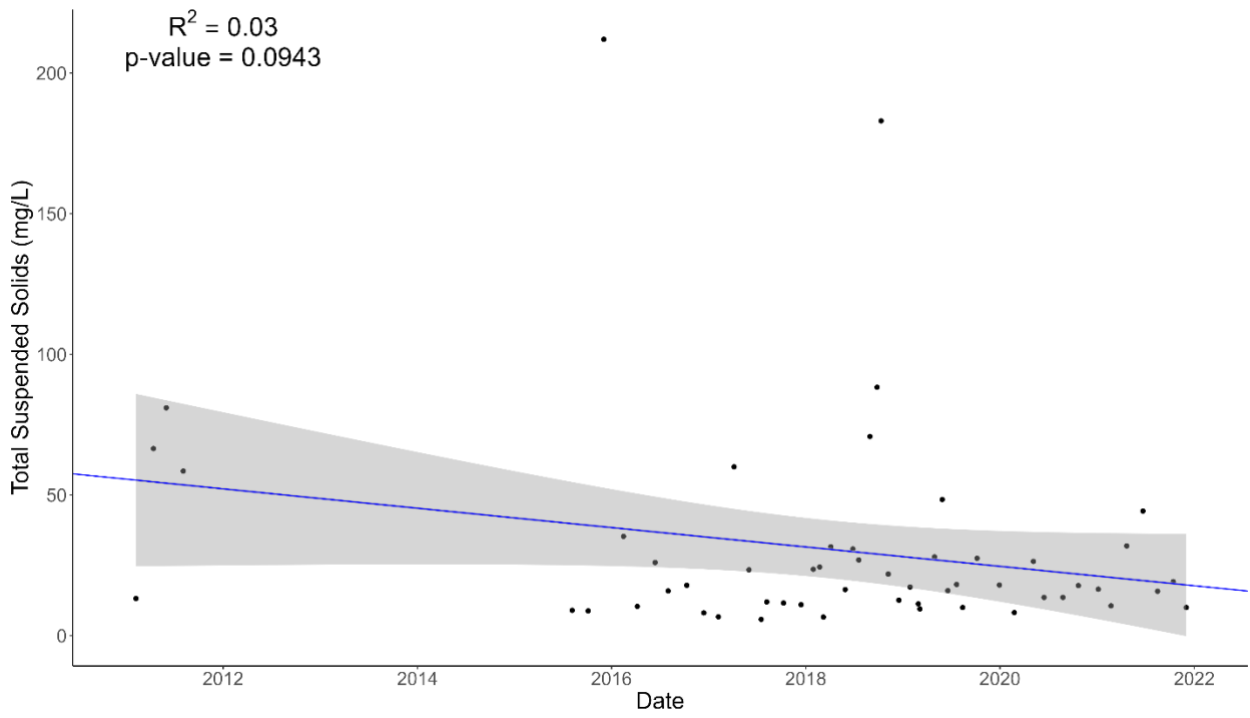


StationID: 12352-SURFACE



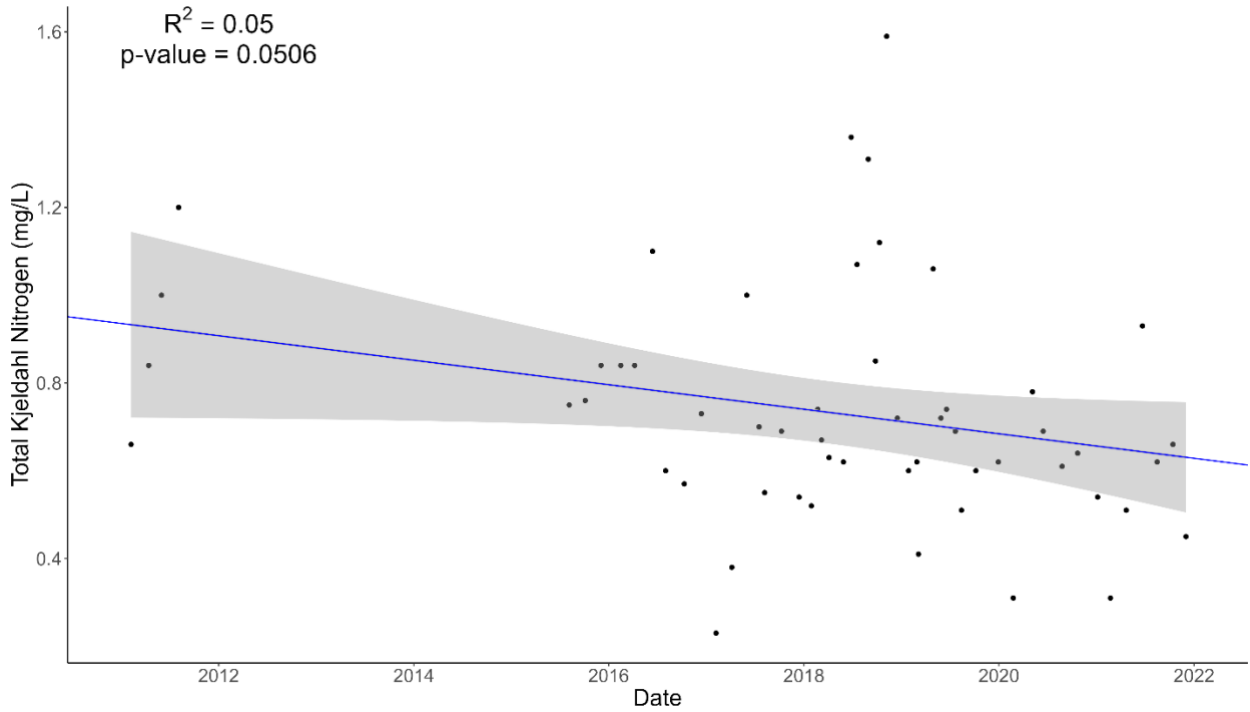
StationID: 12353-SURFACE

$R^2 = 0.03$
p-value = 0.0943



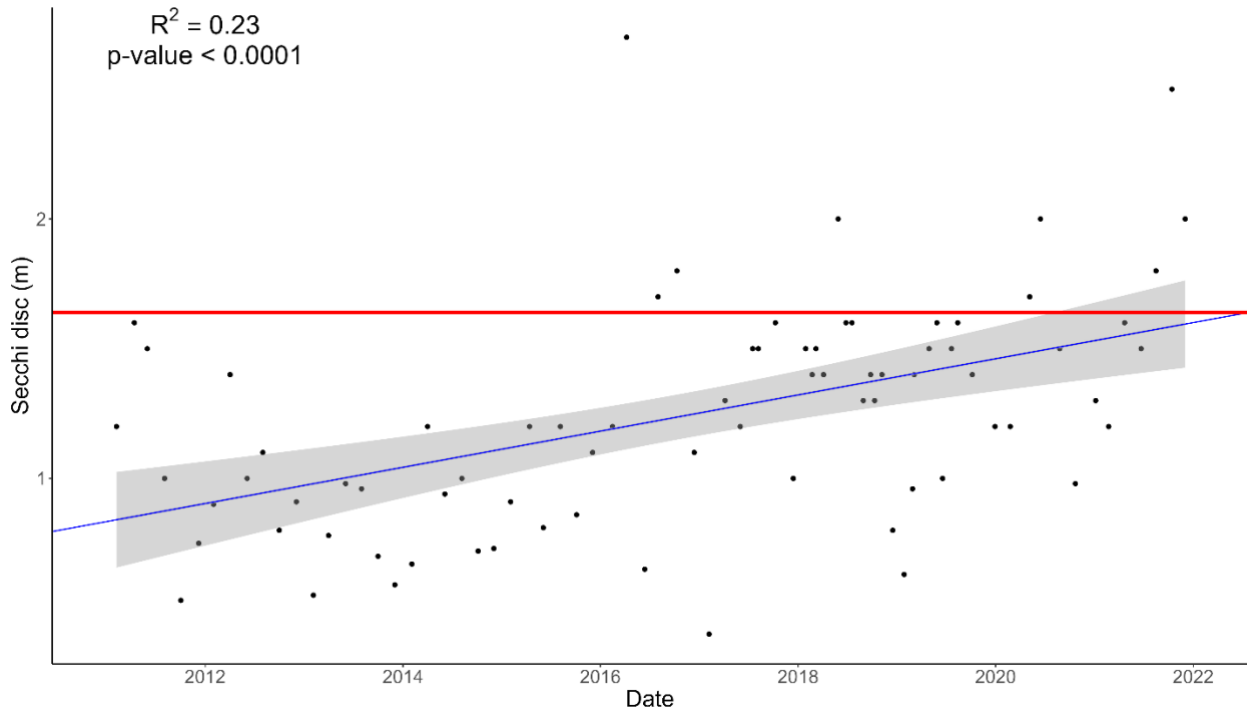
StationID: 12353-SURFACE

$R^2 = 0.05$
p-value = 0.0506



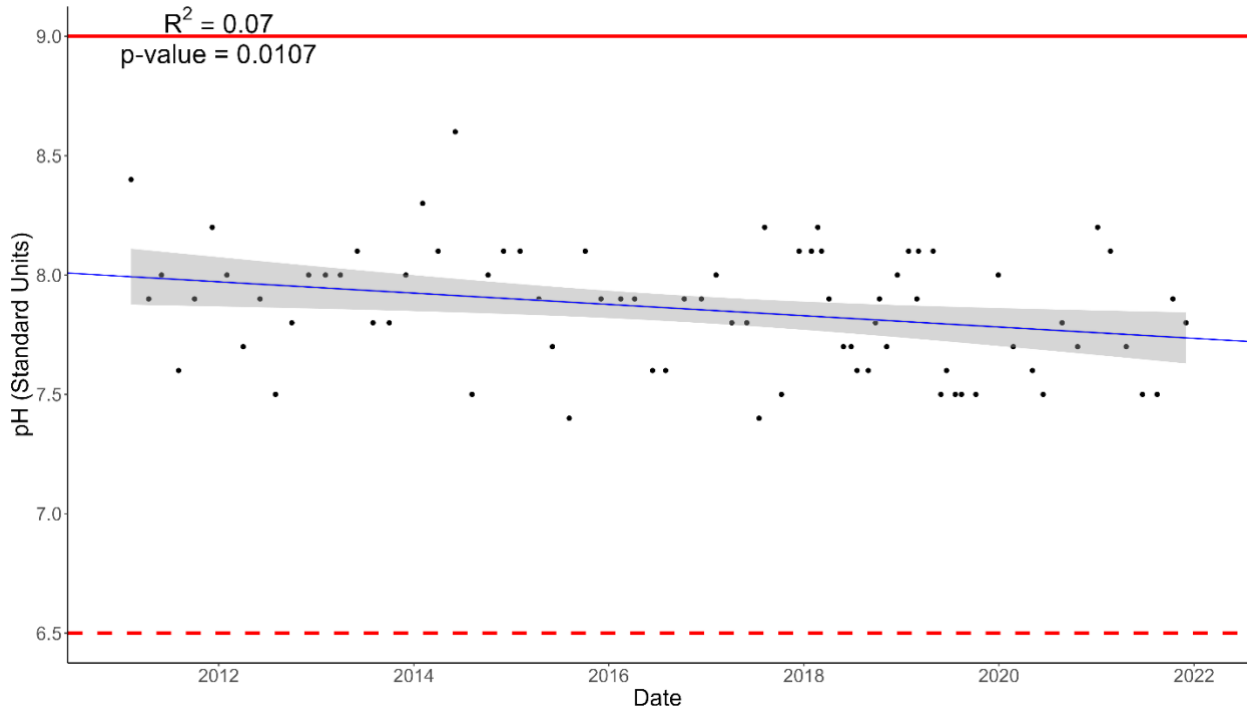
StationID: 12349-SURFACE

$R^2 = 0.23$
 $p\text{-value} < 0.0001$



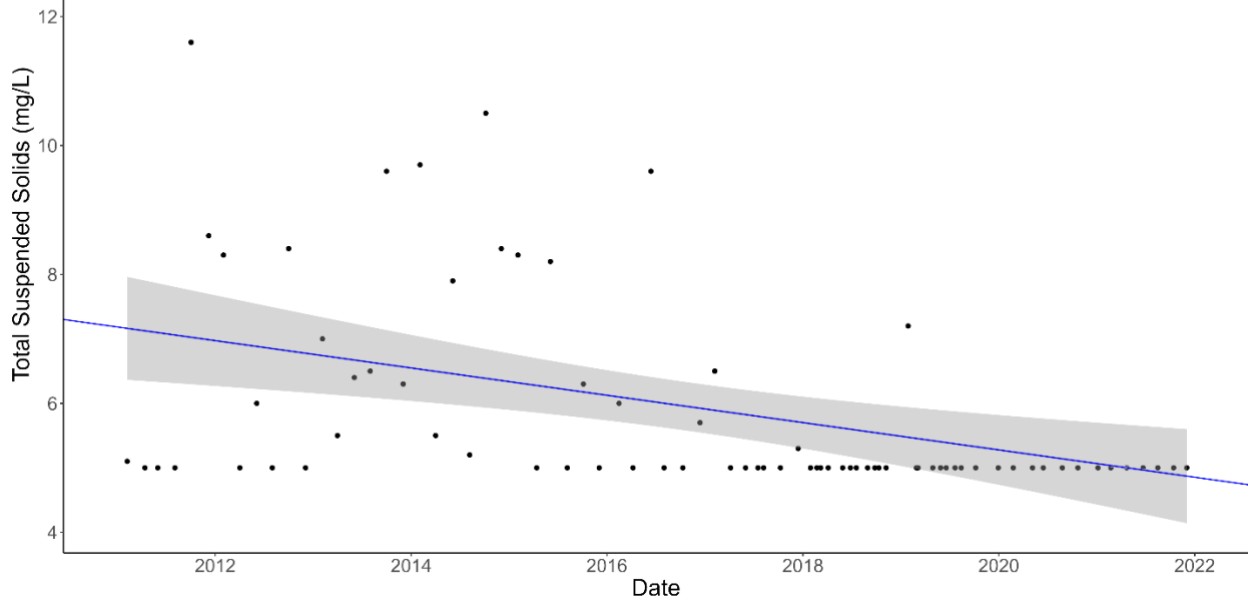
StationID: 12349-BOTTOM

$R^2 = 0.07$
 $p\text{-value} = 0.0107$



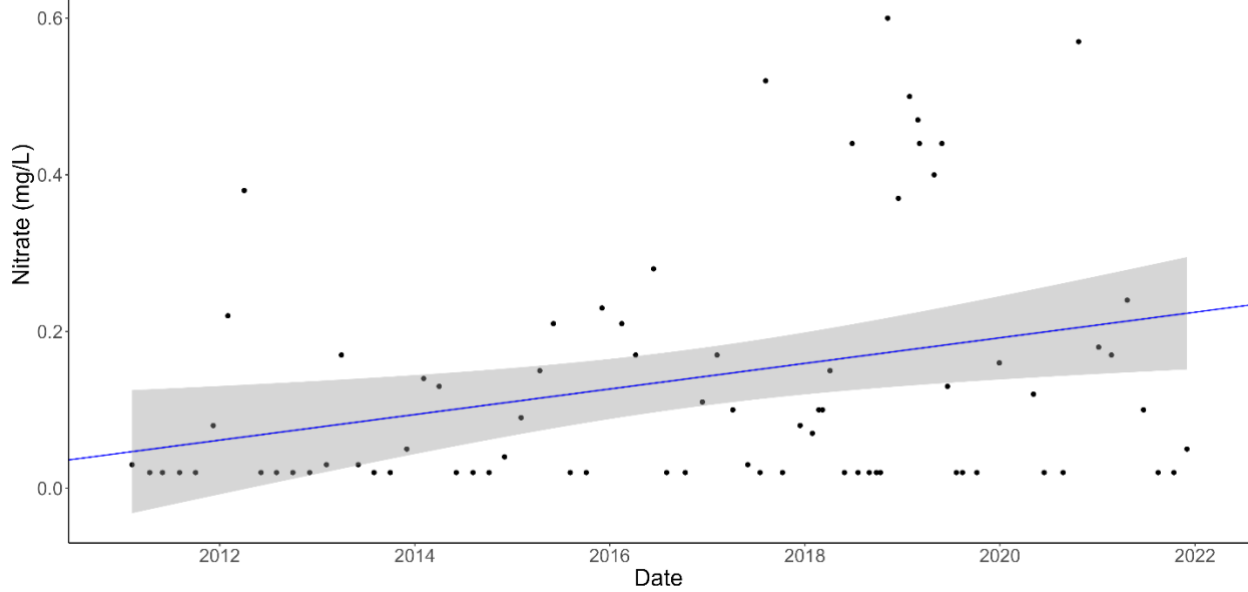
StationID: 12349-SURFACE

$R^2 = 0.12$
 $p\text{-value} = 0.001$

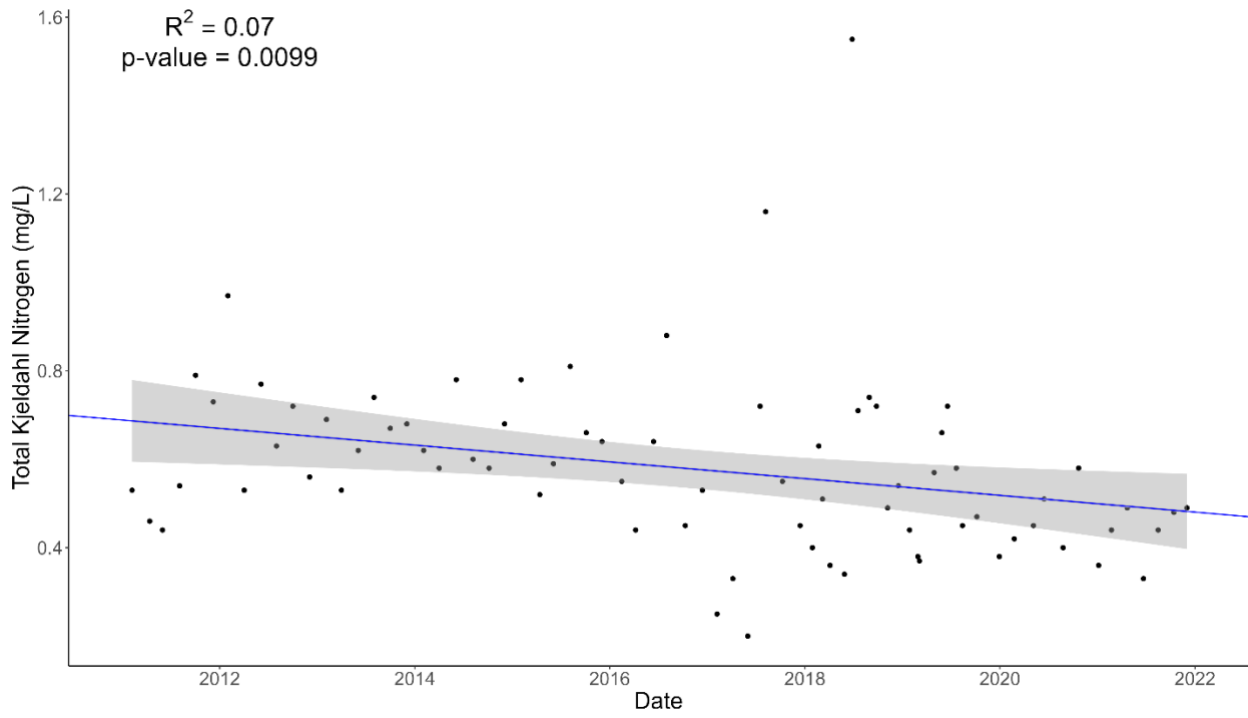


StationID: 12349-BOTTOM

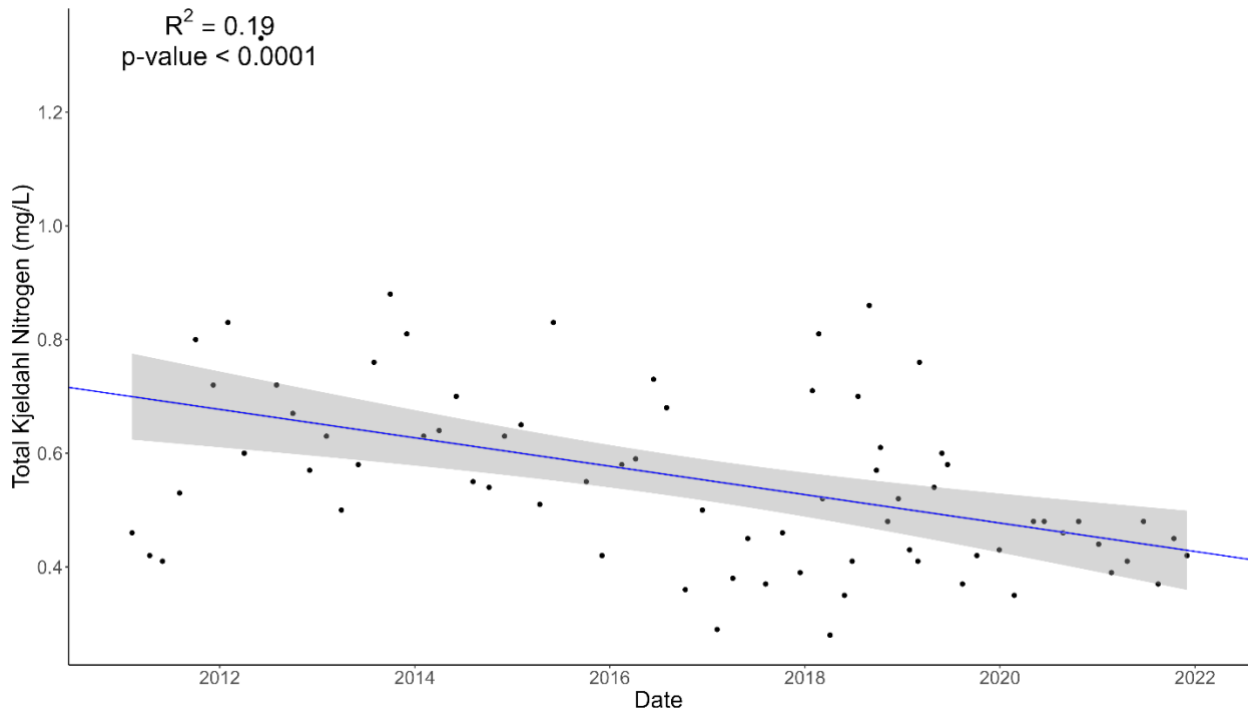
$R^2 = 0.08$
 $p\text{-value} = 0.0087$



StationID: 12349-BOTTOM



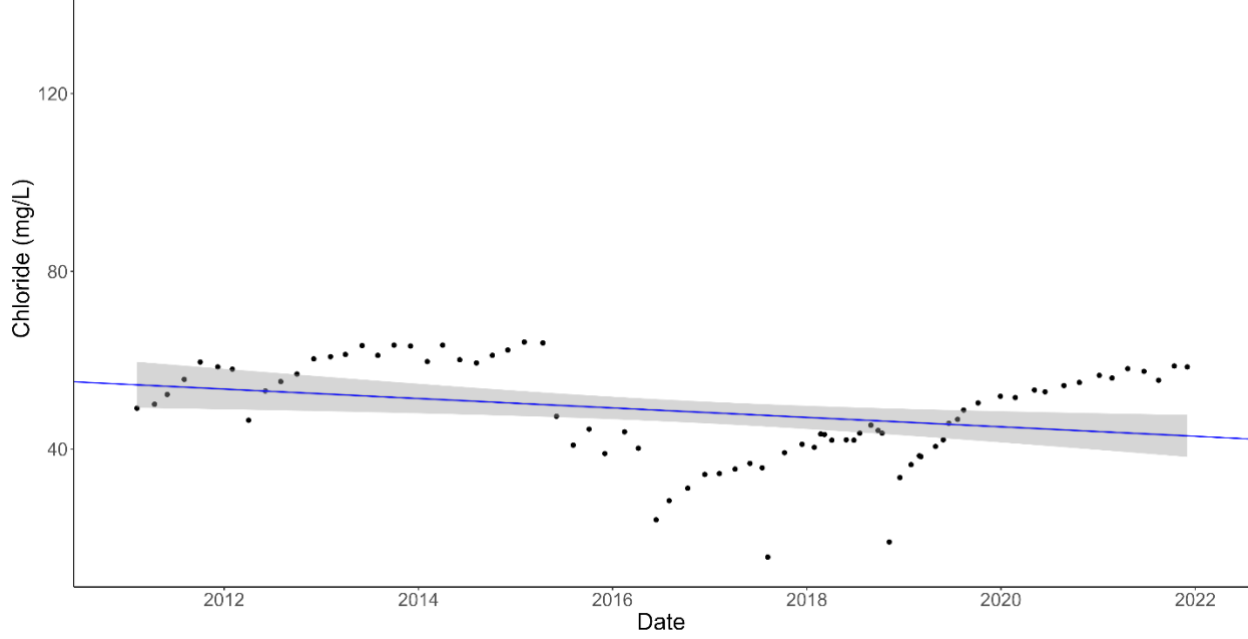
StationID: 12349-SURFACE



StationID: 12349-BOTTOM

$R^2 = 0.07$

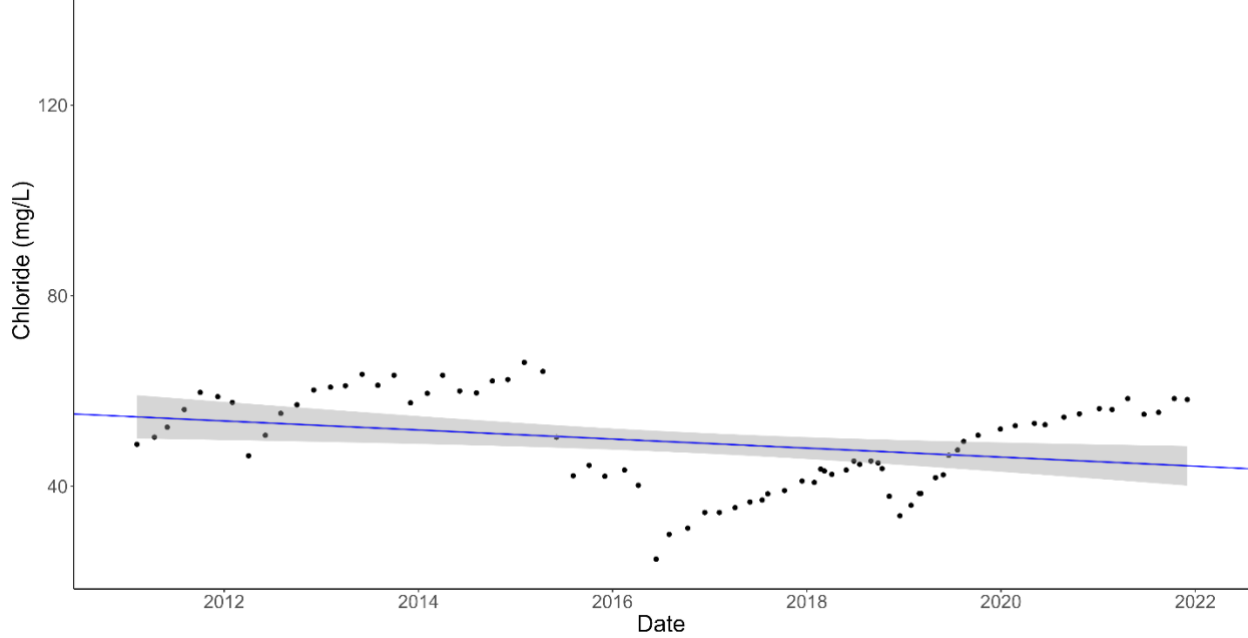
p-value = 0.0095



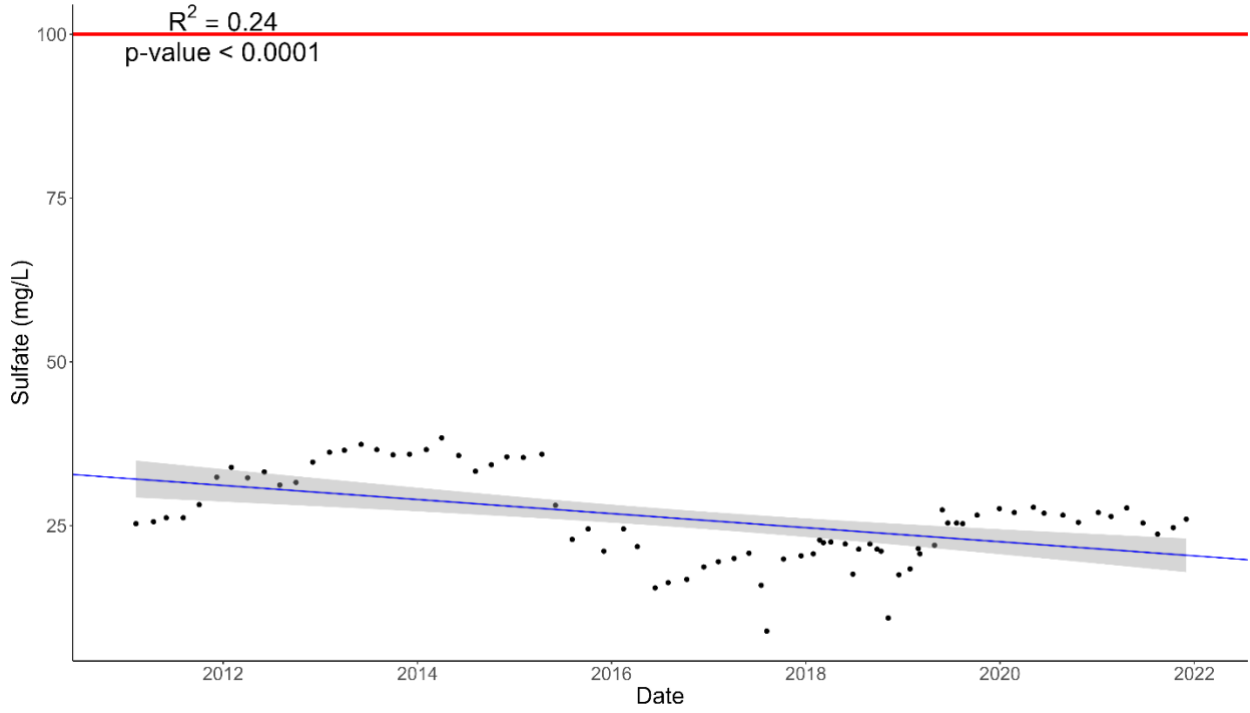
StationID: 12349-SURFACE

$R^2 = 0.08$

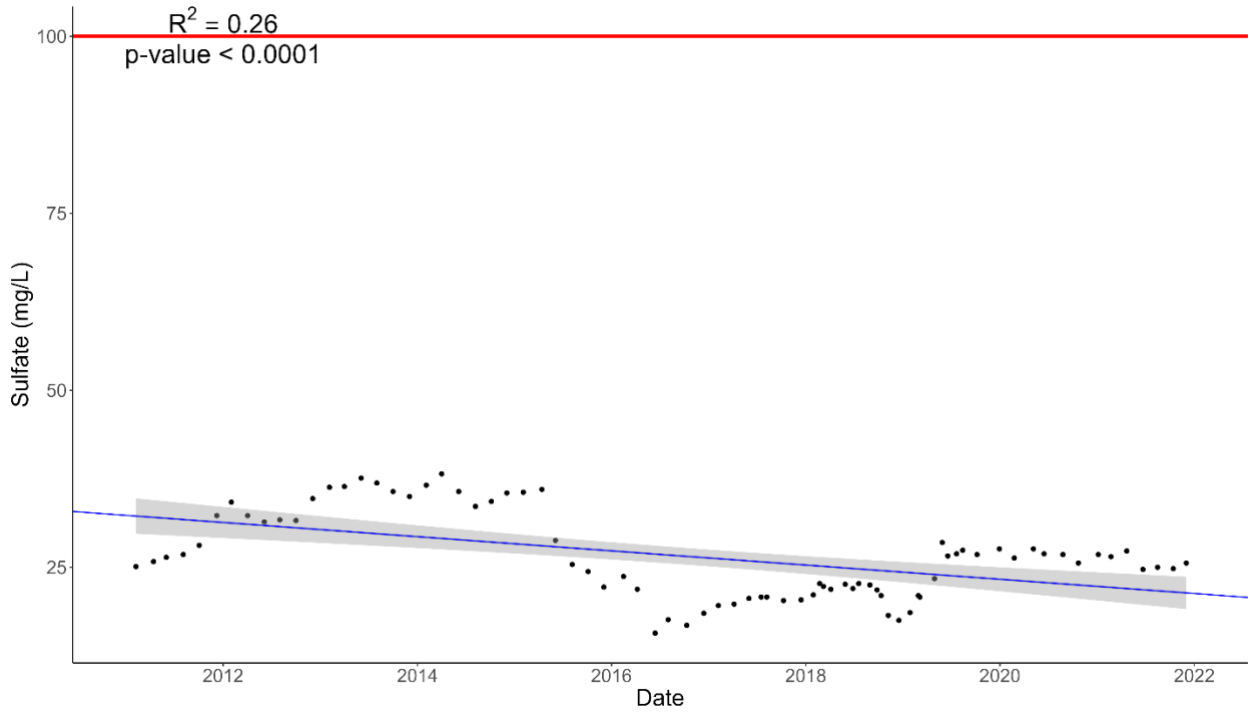
p-value = 0.0084



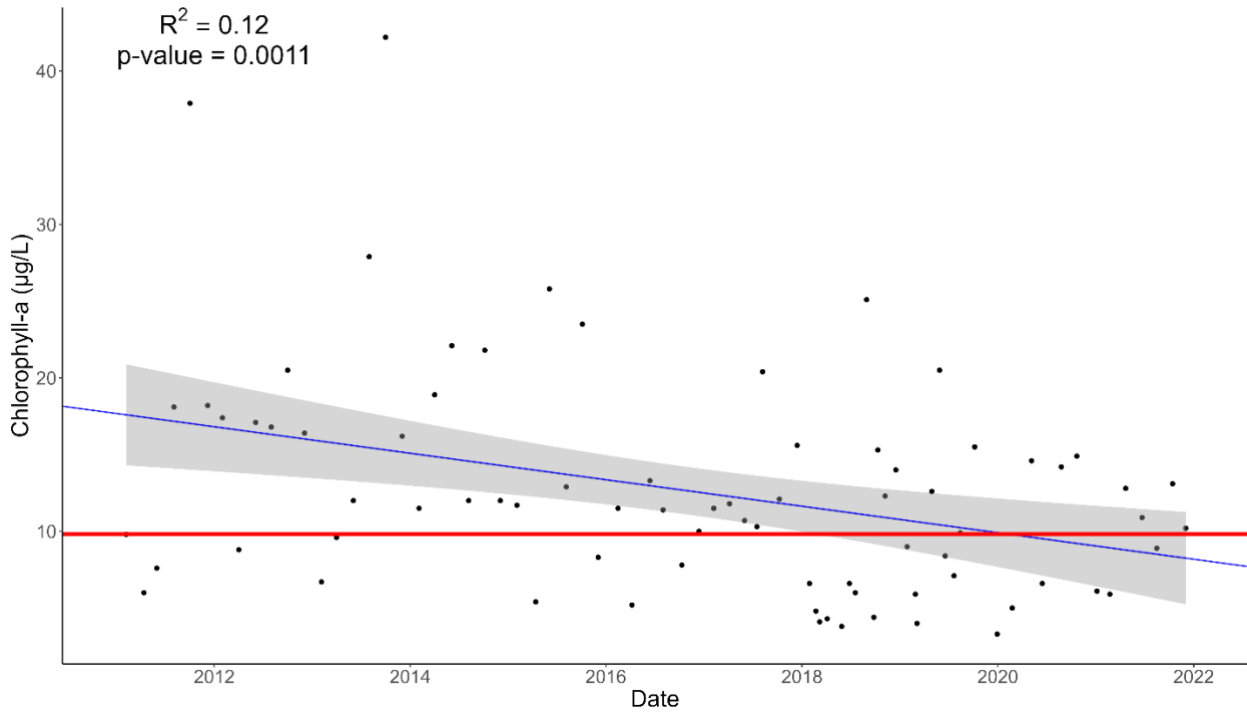
StationID: 12349-BOTTOM



StationID: 12349-SURFACE

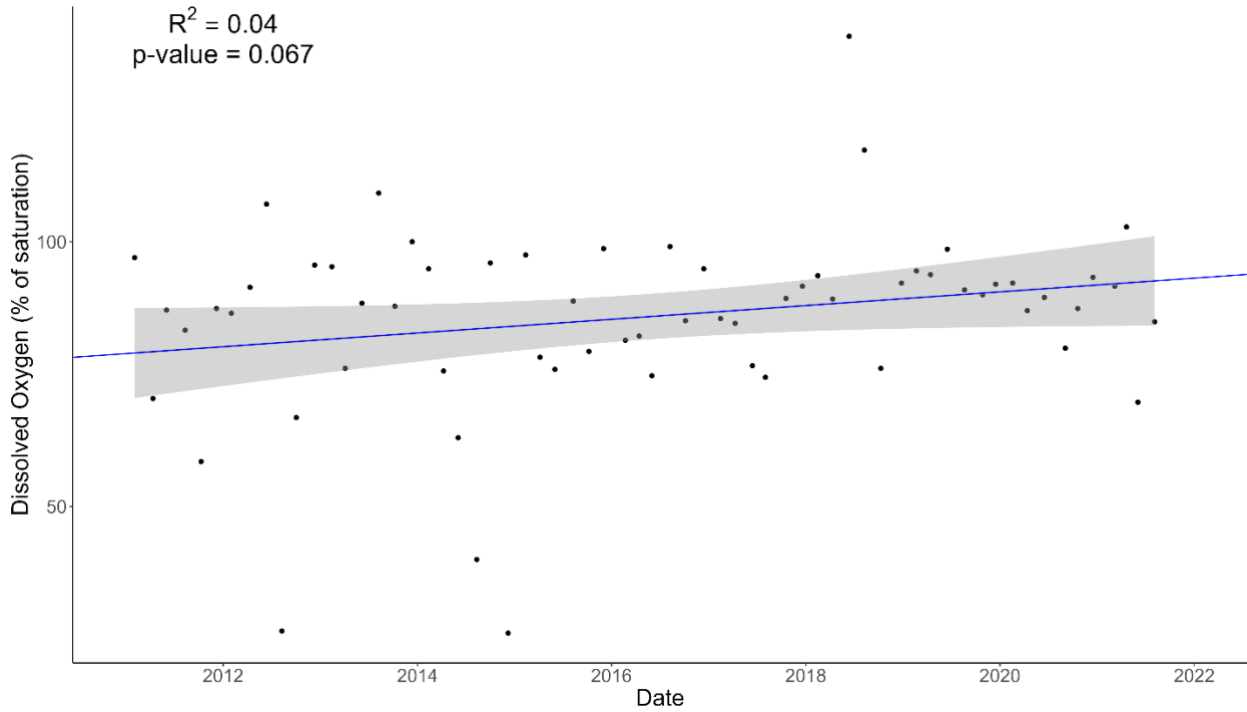


StationID: 12349-SURFACE

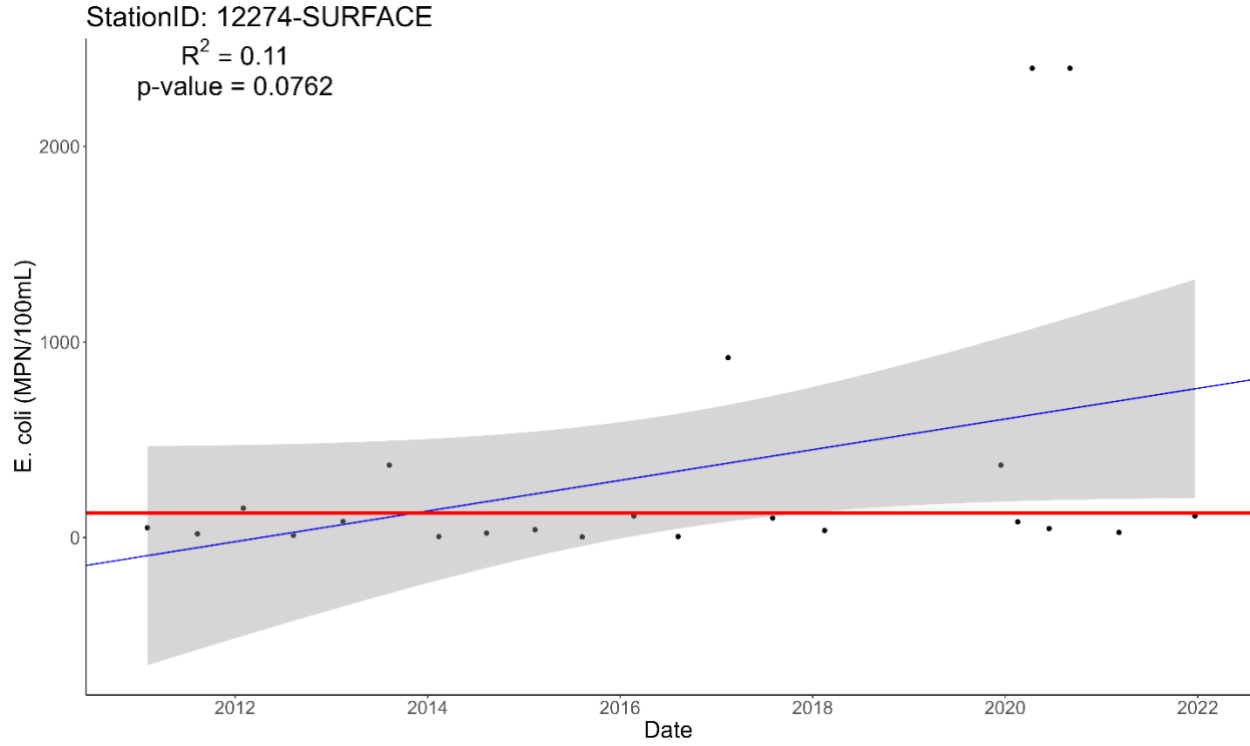
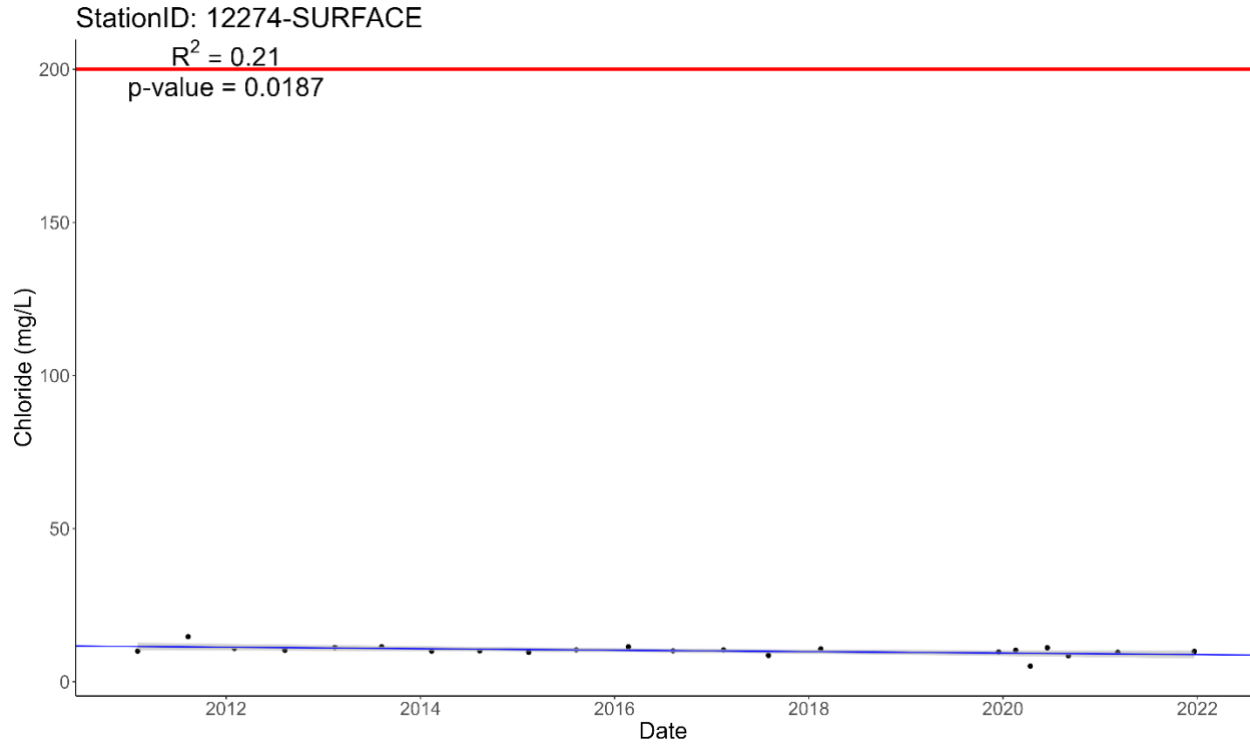


1409 – Colorado River Above Lake Buchanan

StationID: 12355-SURFACE

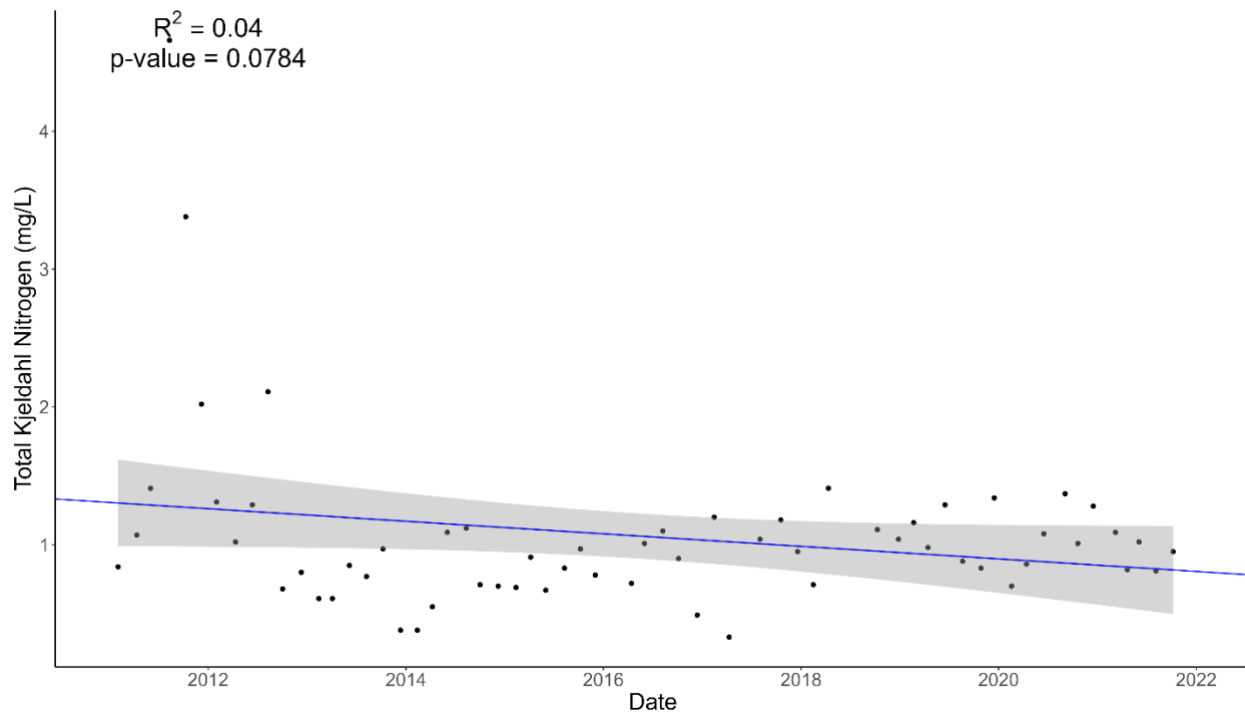


1409A – Cherokee Creek

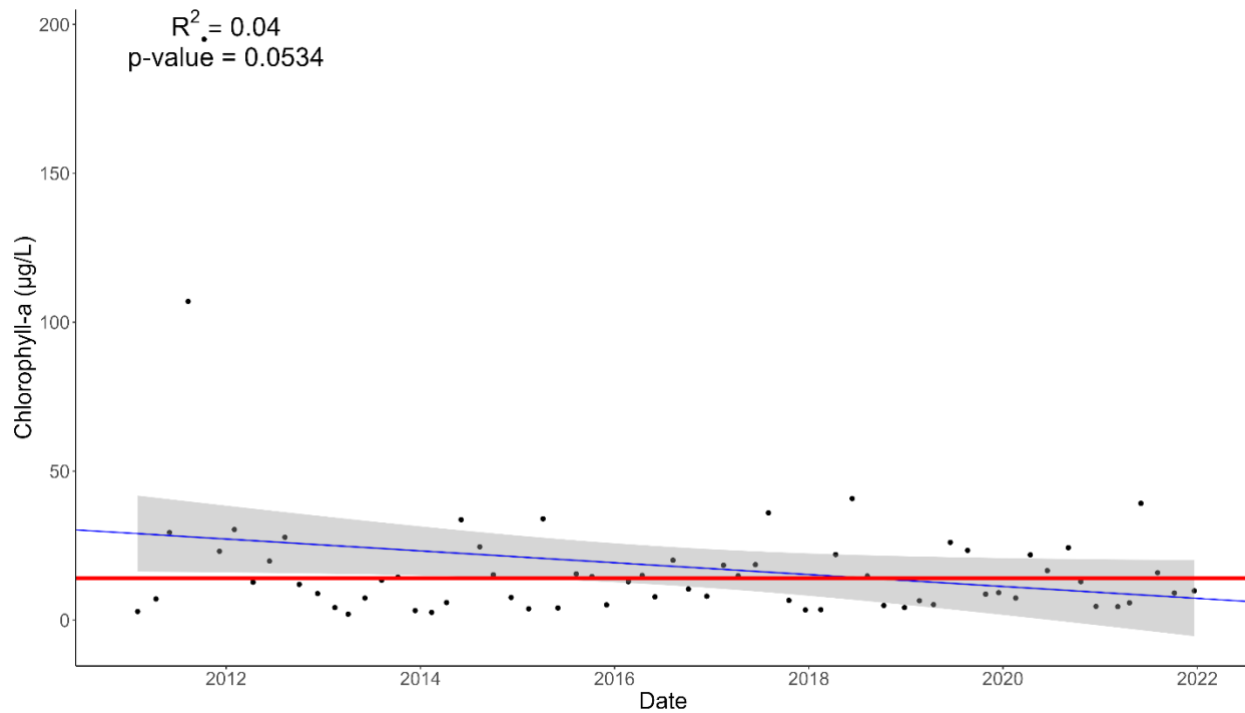


1410 – Colorado River Below O.H. Ivie Reservoir

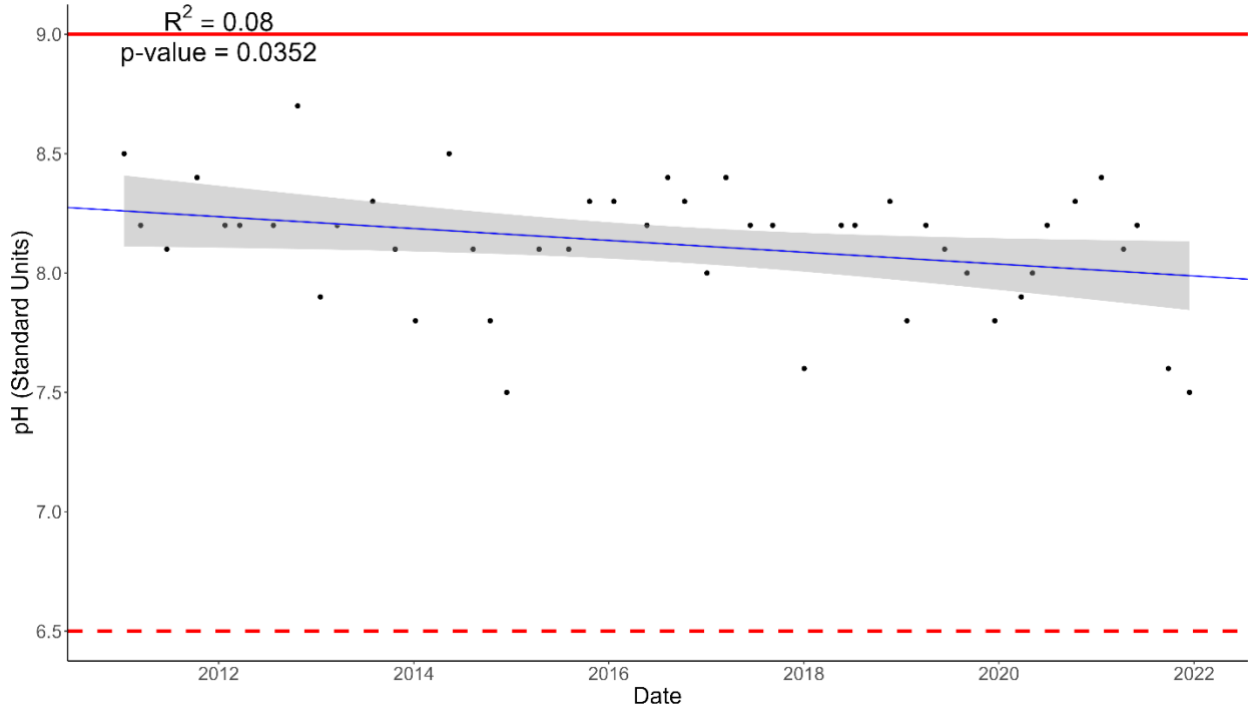
StationID: 12358-SURFACE



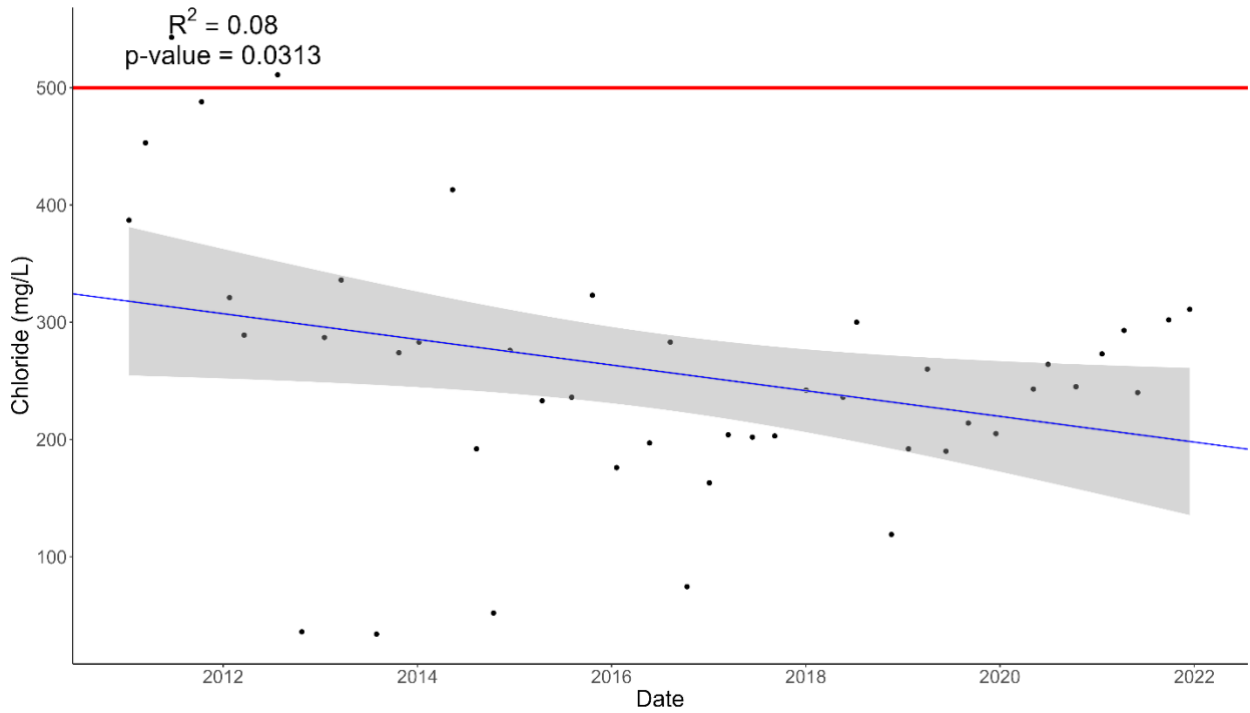
StationID: 12358-SURFACE



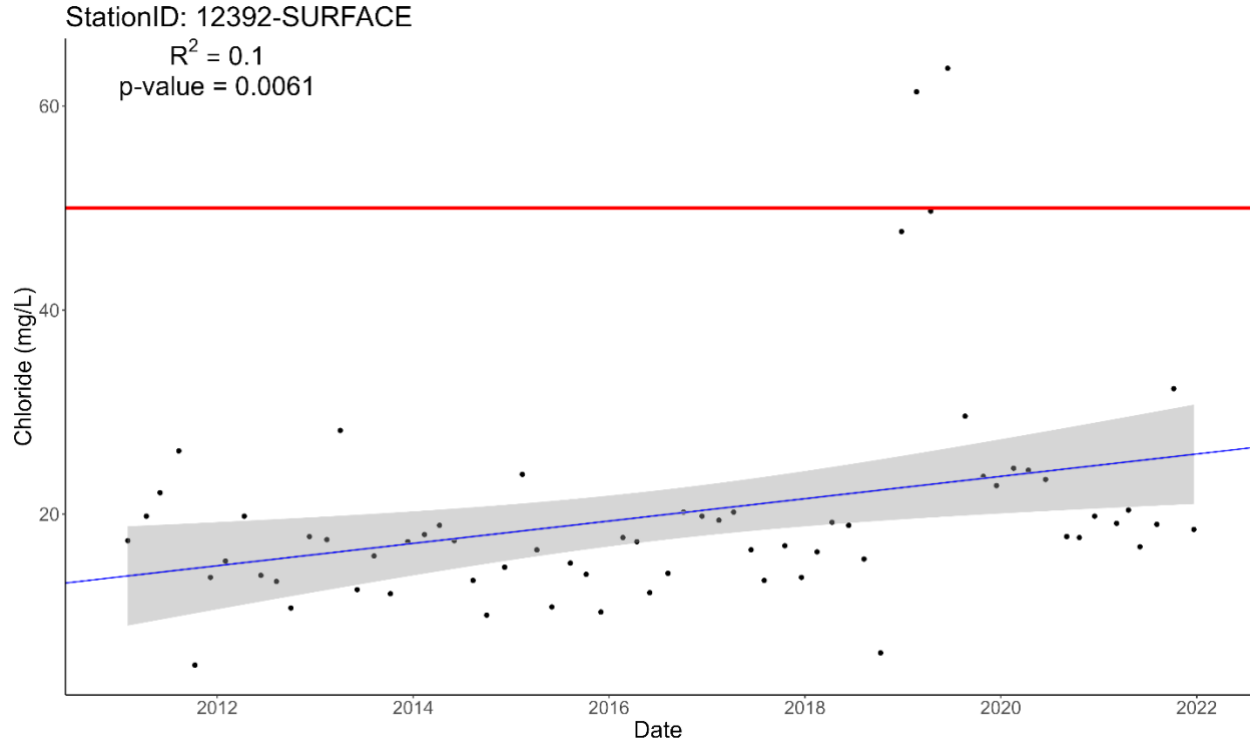
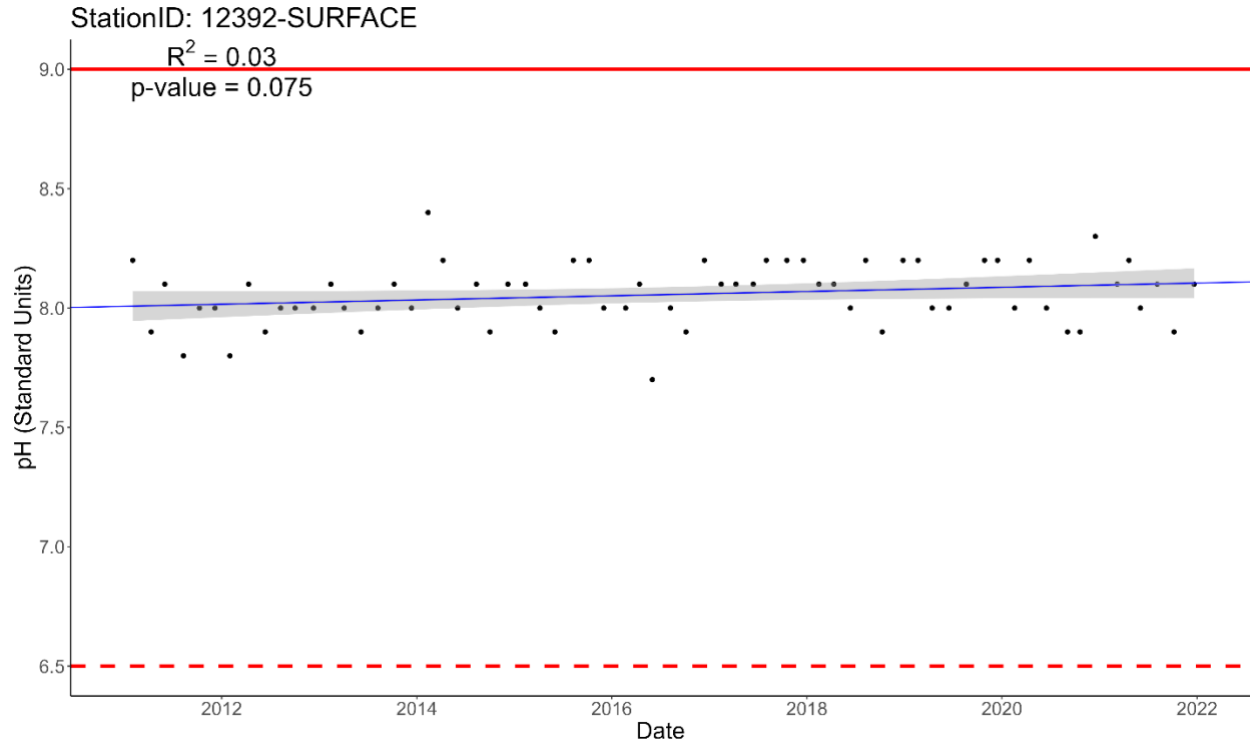
StationID: 13667-SURFACE



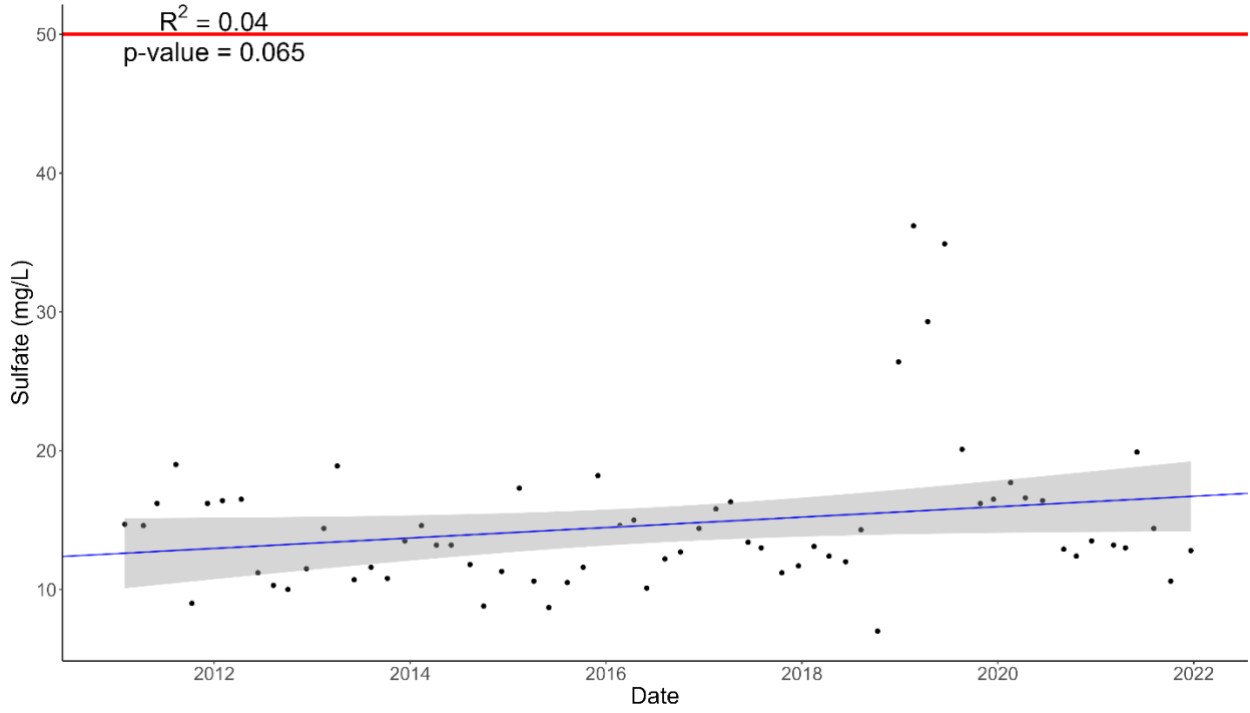
StationID: 13667-SURFACE



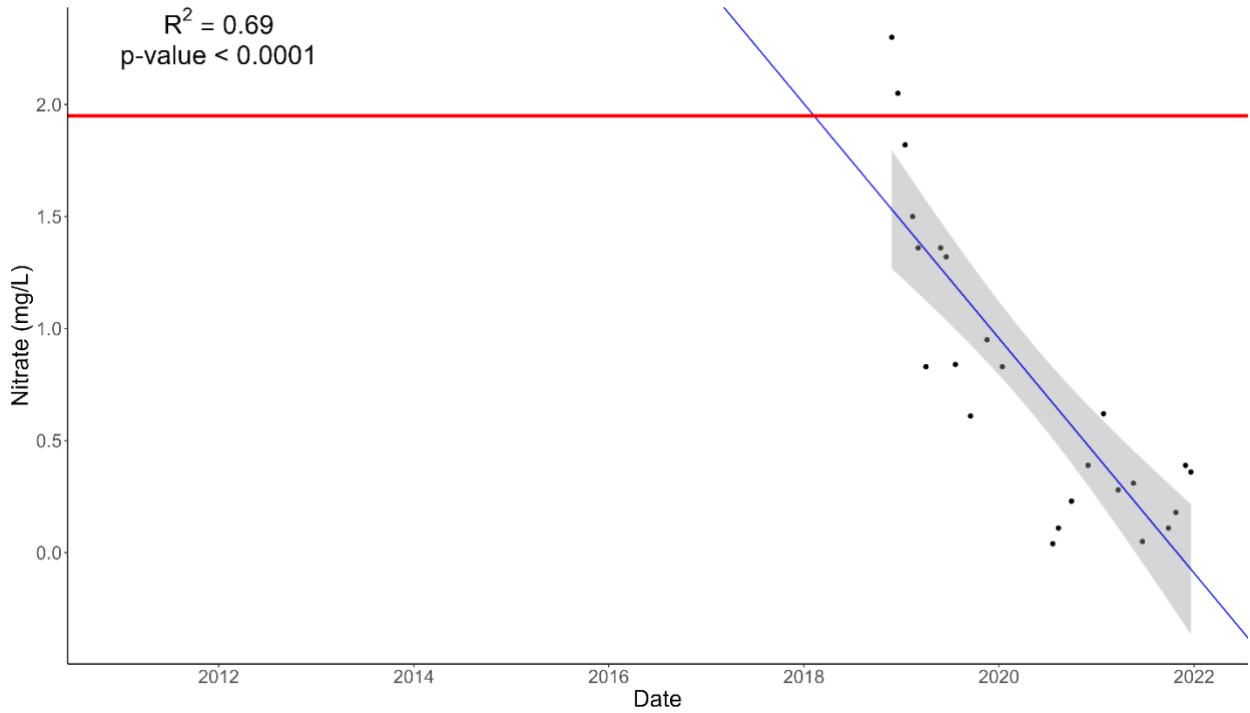
1416 – San Saba River



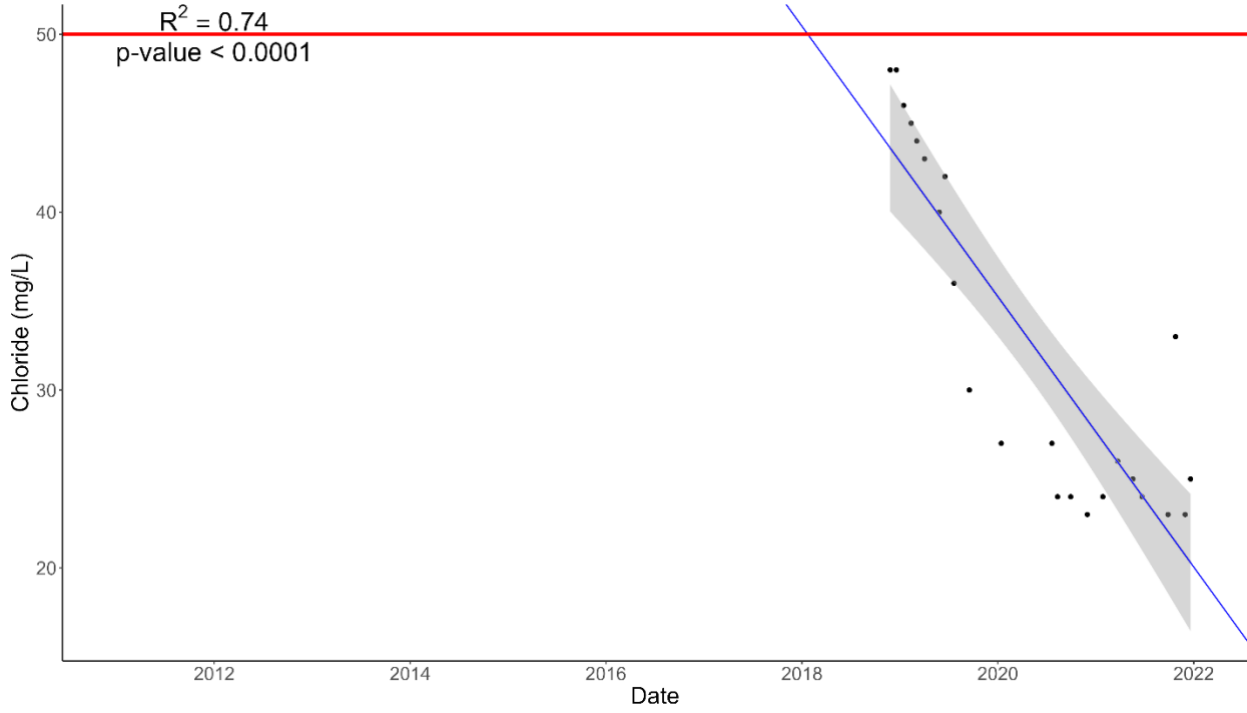
StationID: 12392-SURFACE



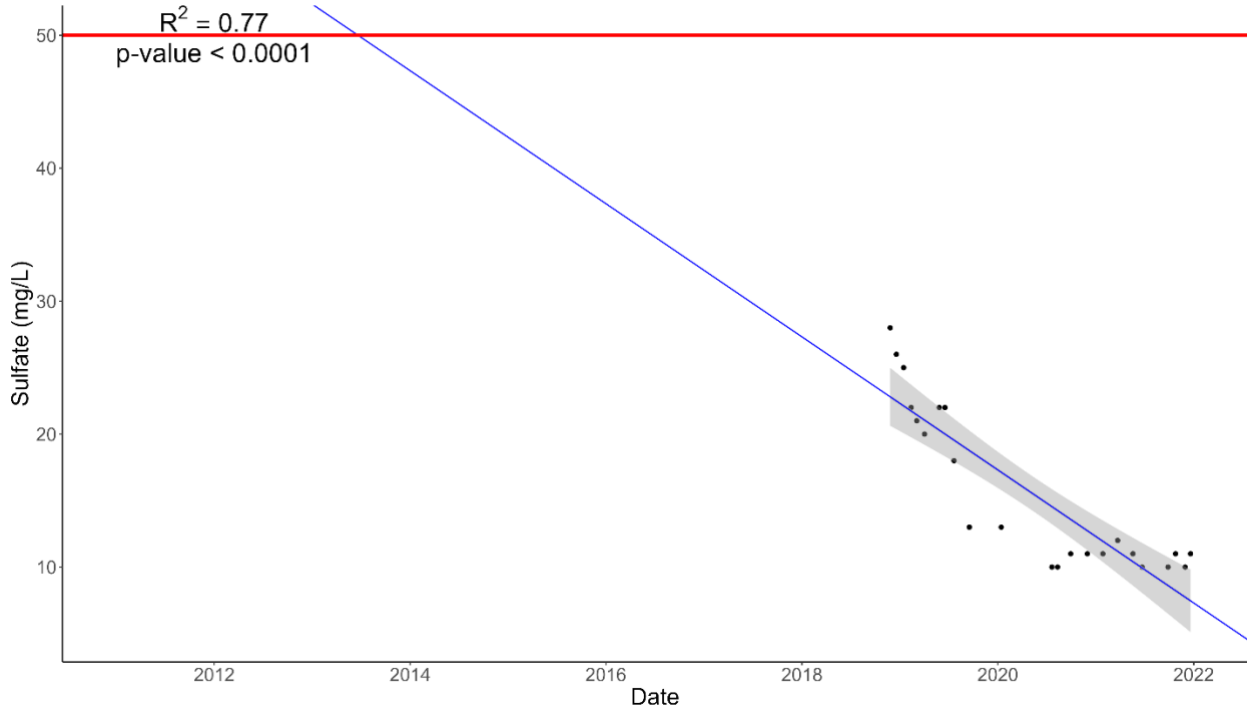
StationID: 12393-SURFACE



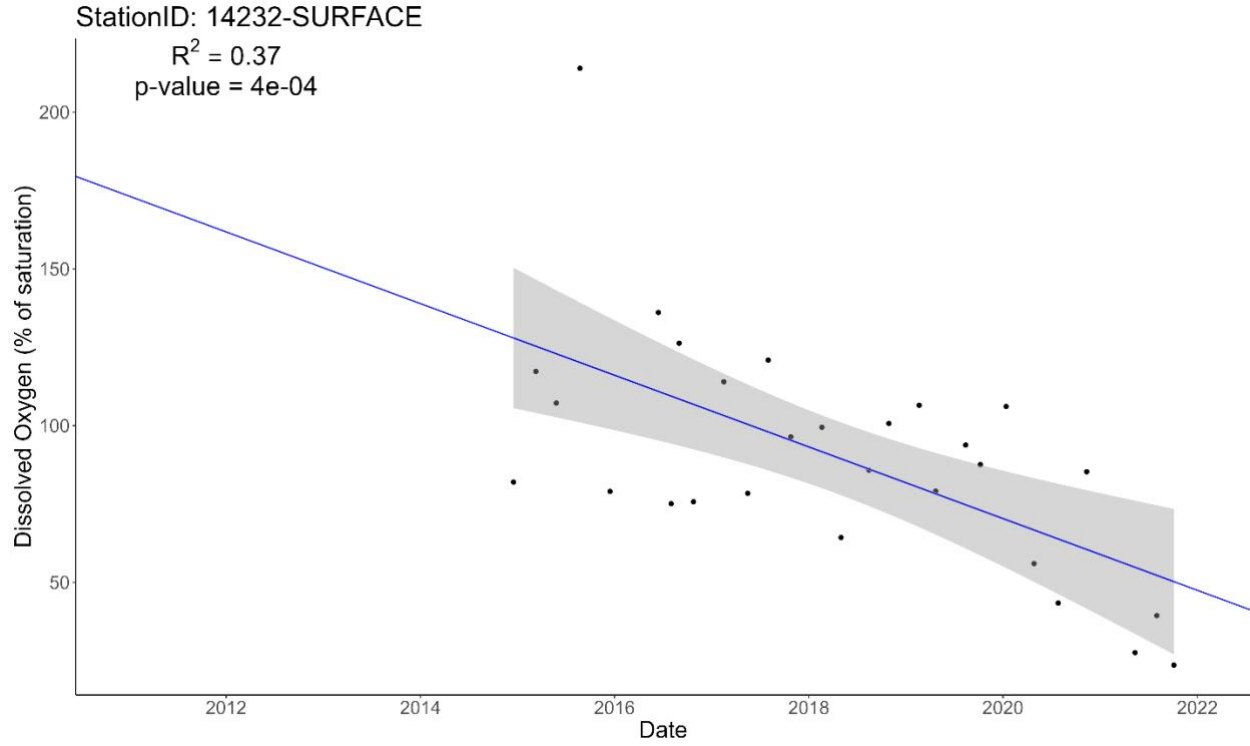
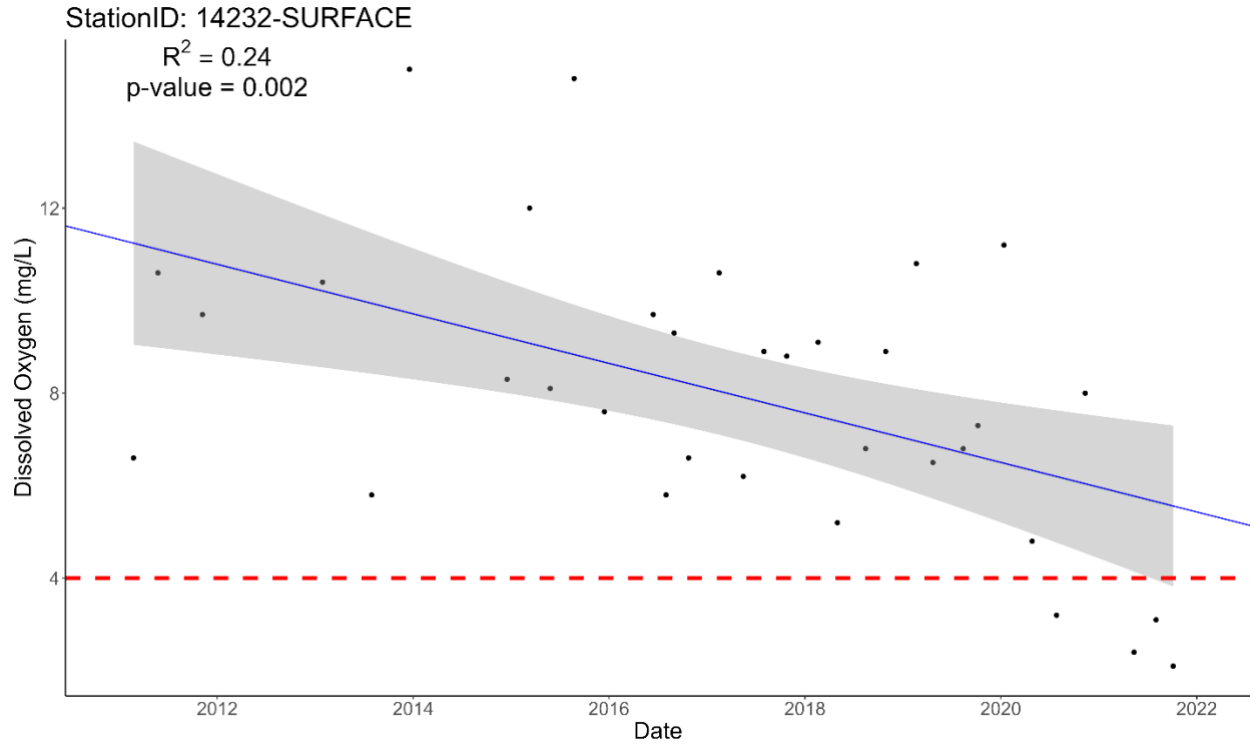
StationID: 12393-SURFACE



StationID: 12393-SURFACE

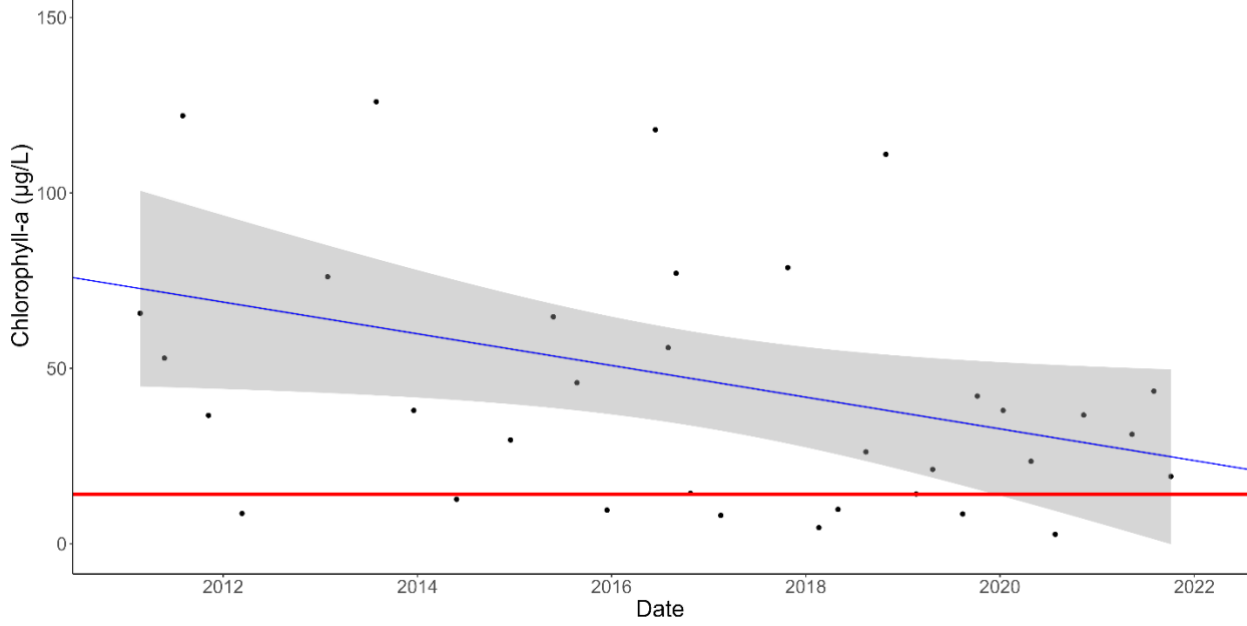


1416A – Brady Creek



StationID: 14232-SURFACE

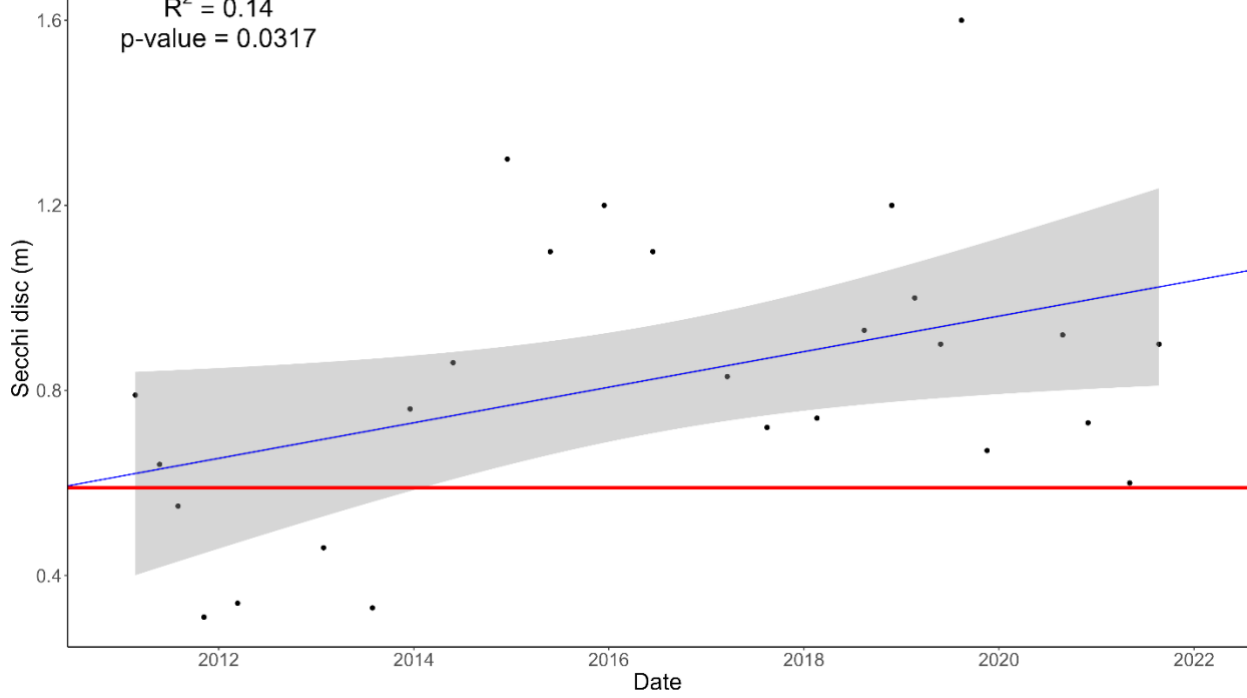
$R^2 = 0.1$
p-value = 0.0391



1416B – Brady Creek Reservoir

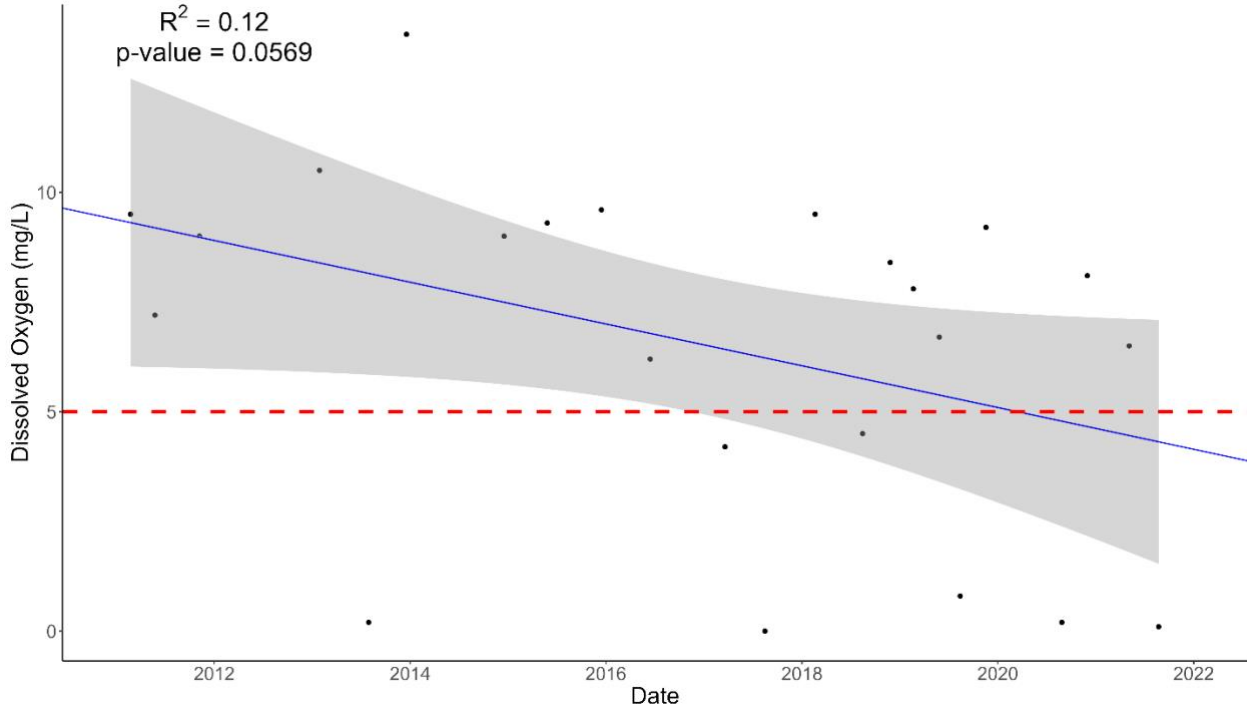
StationID: 12179-SURFACE

$R^2 = 0.14$
p-value = 0.0317



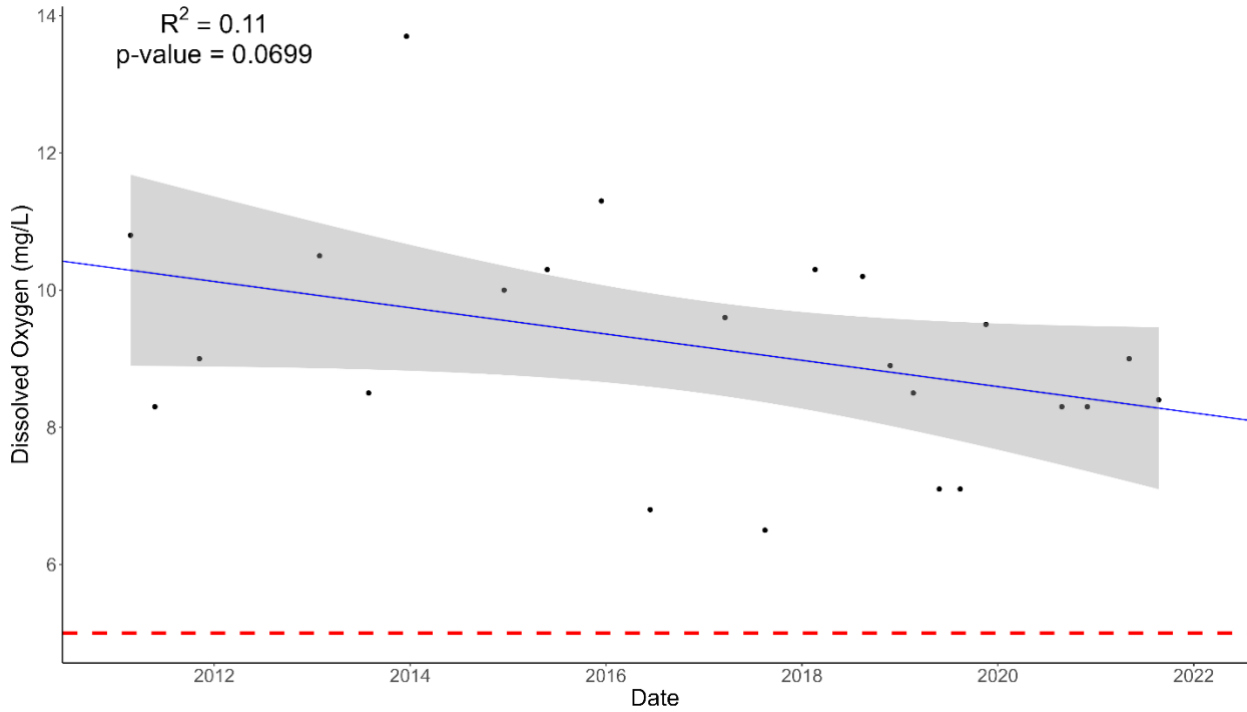
StationID: 12179-BOTTOM

$R^2 = 0.12$
p-value = 0.0569



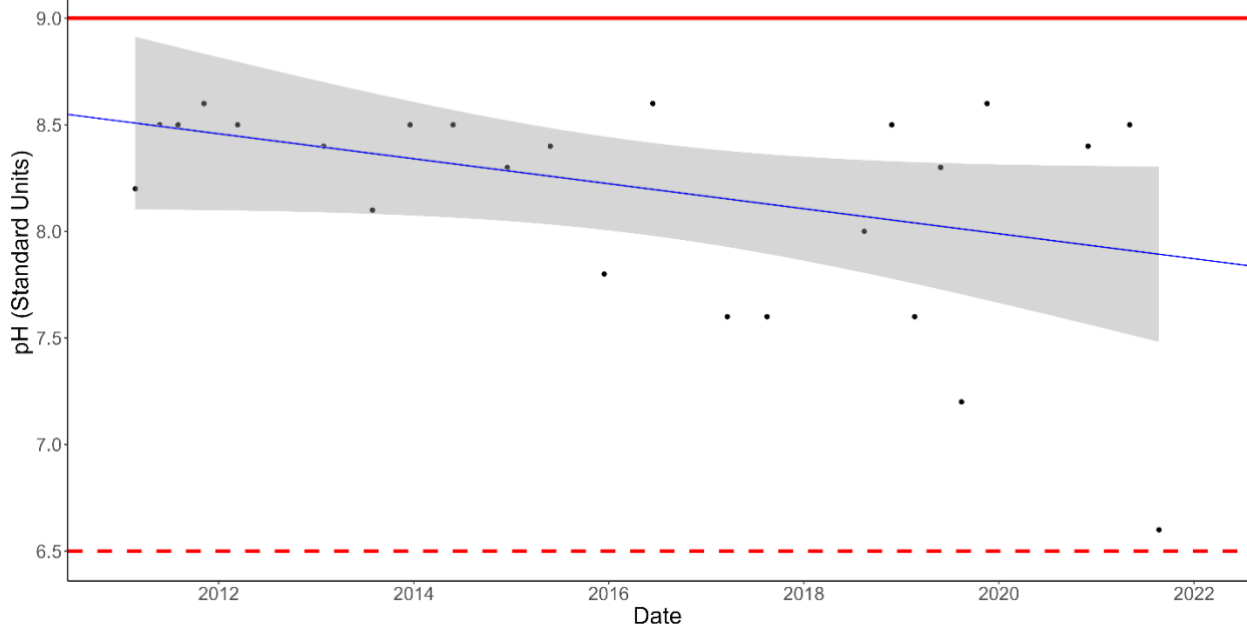
StationID: 12179-SURFACE

$R^2 = 0.11$
p-value = 0.0699



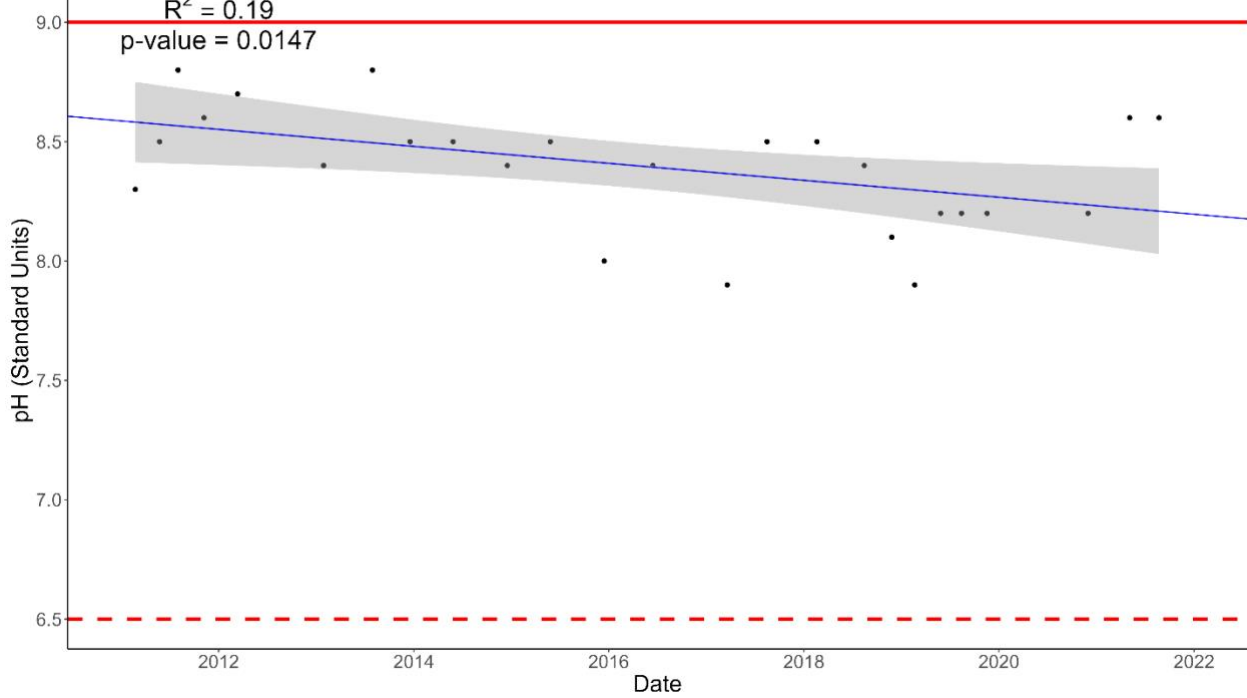
StationID: 12179-BOTTOM

$R^2 = 0.09$
p-value = 0.0782



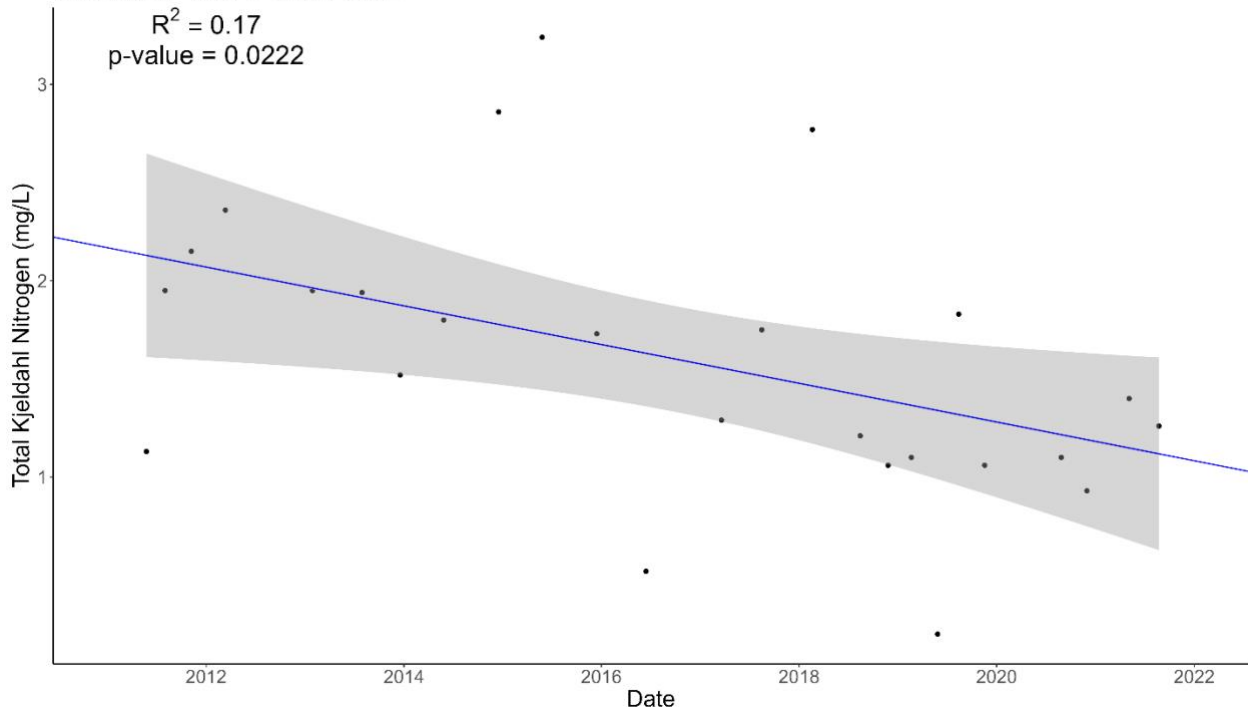
StationID: 12179-SURFACE

$R^2 = 0.19$
p-value = 0.0147



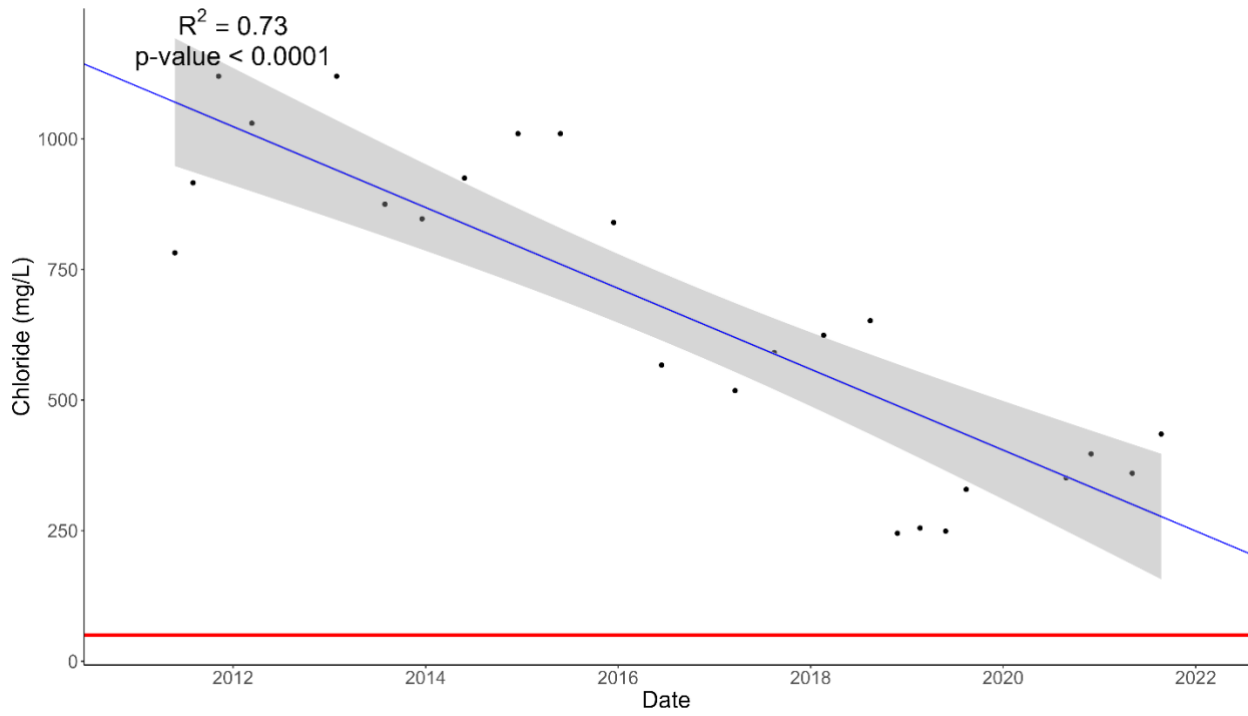
StationID: 12179-SURFACE

$R^2 = 0.17$
p-value = 0.0222



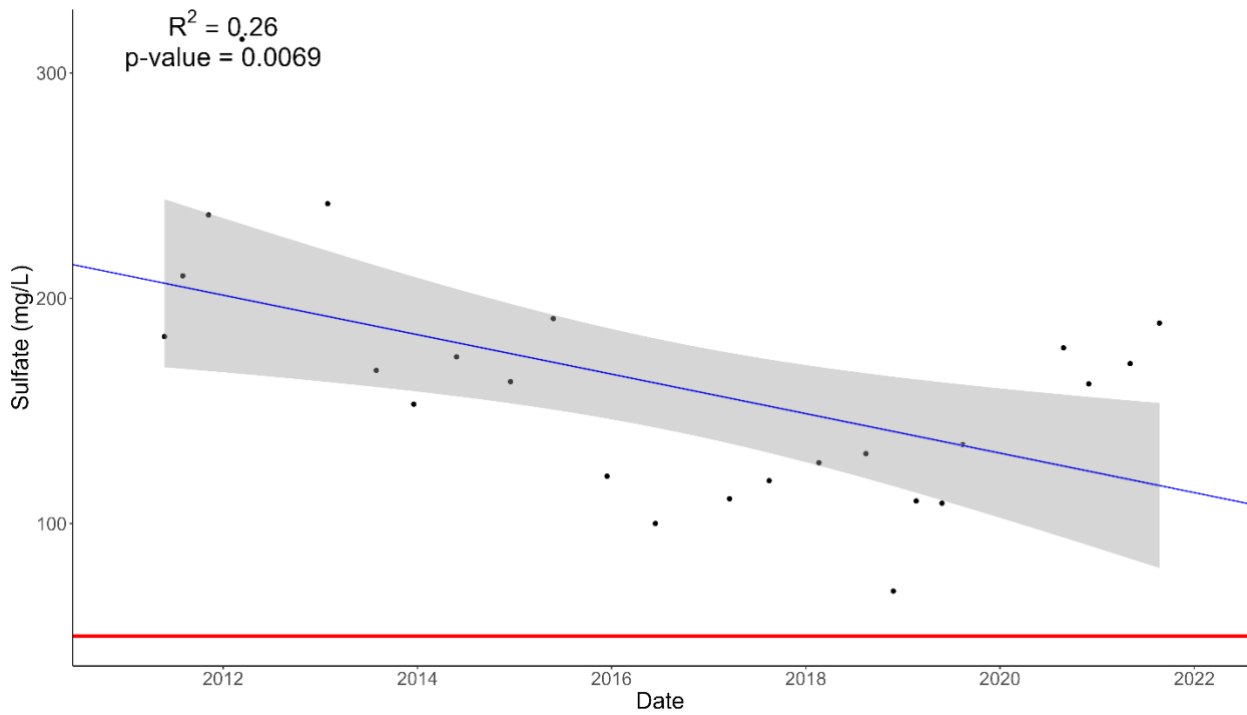
StationID: 12179-SURFACE

$R^2 = 0.73$
p-value < 0.0001



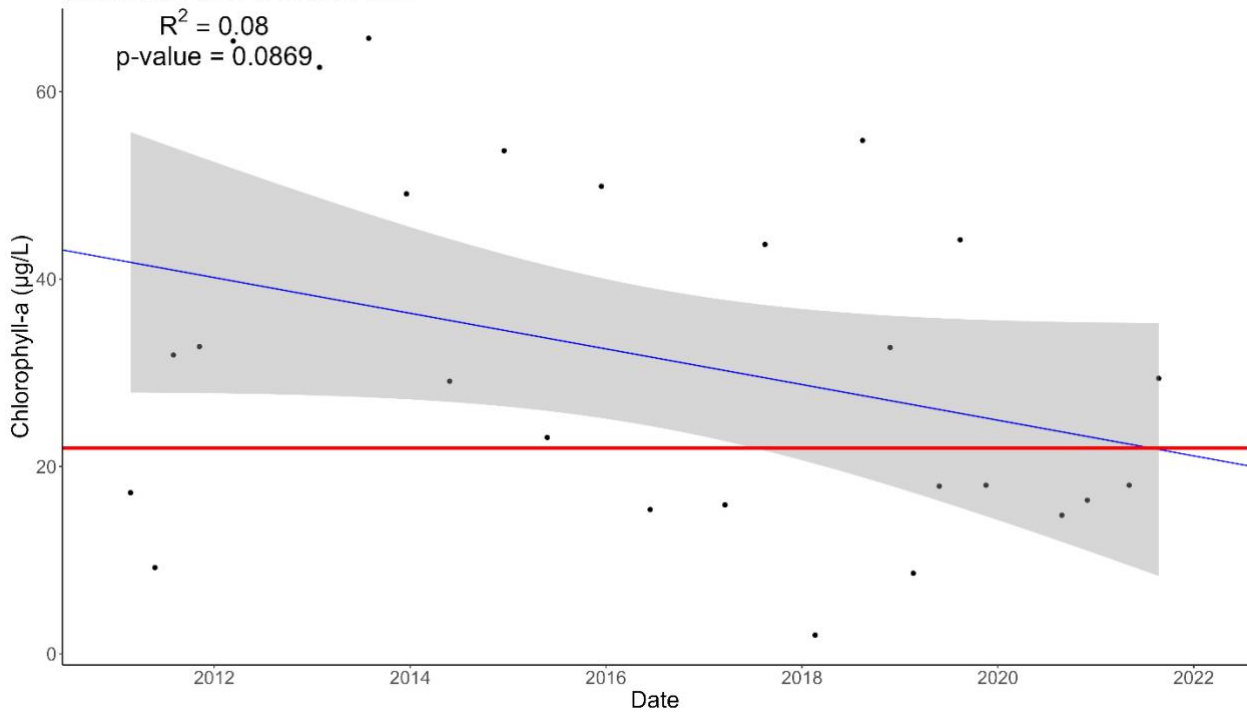
StationID: 12179-SURFACE

$R^2 = 0.26$
p-value = 0.0069



StationID: 12179-SURFACE

$R^2 = 0.08$
p-value = 0.0869



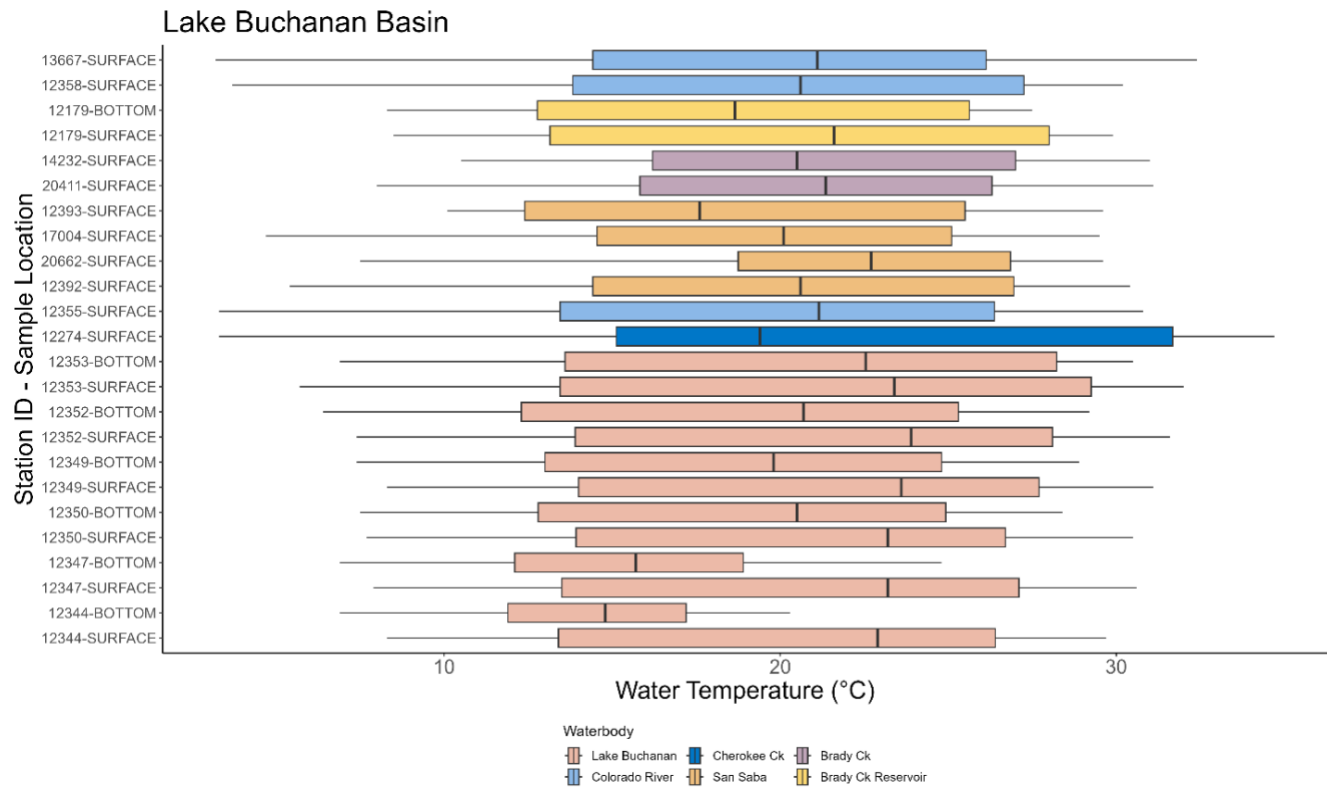
1416C – Brady Creek Above Brady Creek Reservoir

No significant trends.

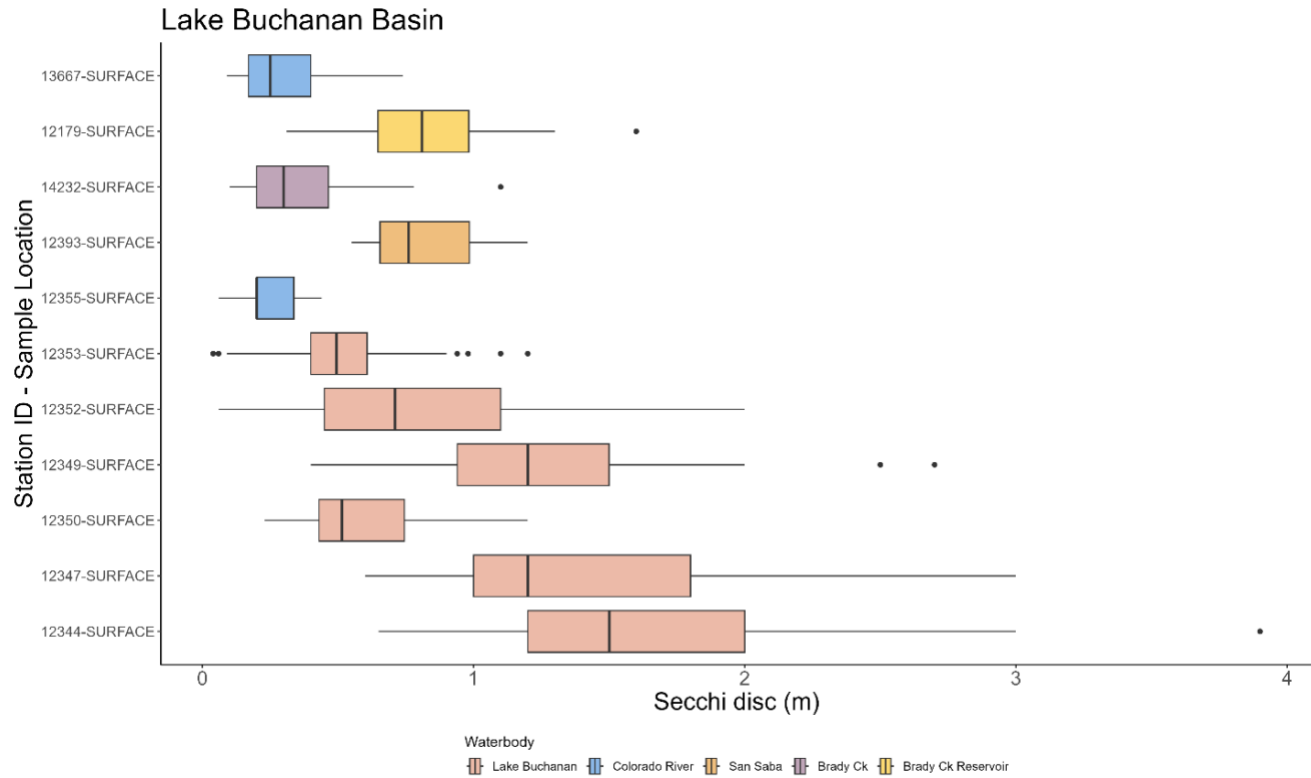
Appendix X7

Spatial comparison of parameters collected within the Buchanan Basin. Boxplots of each parameter are presented first followed by a table of site-by-site comparisons using a Tukey-HSD analysis. Only statistically different station comparisons for each parameter are presented (p -value < 0.05).

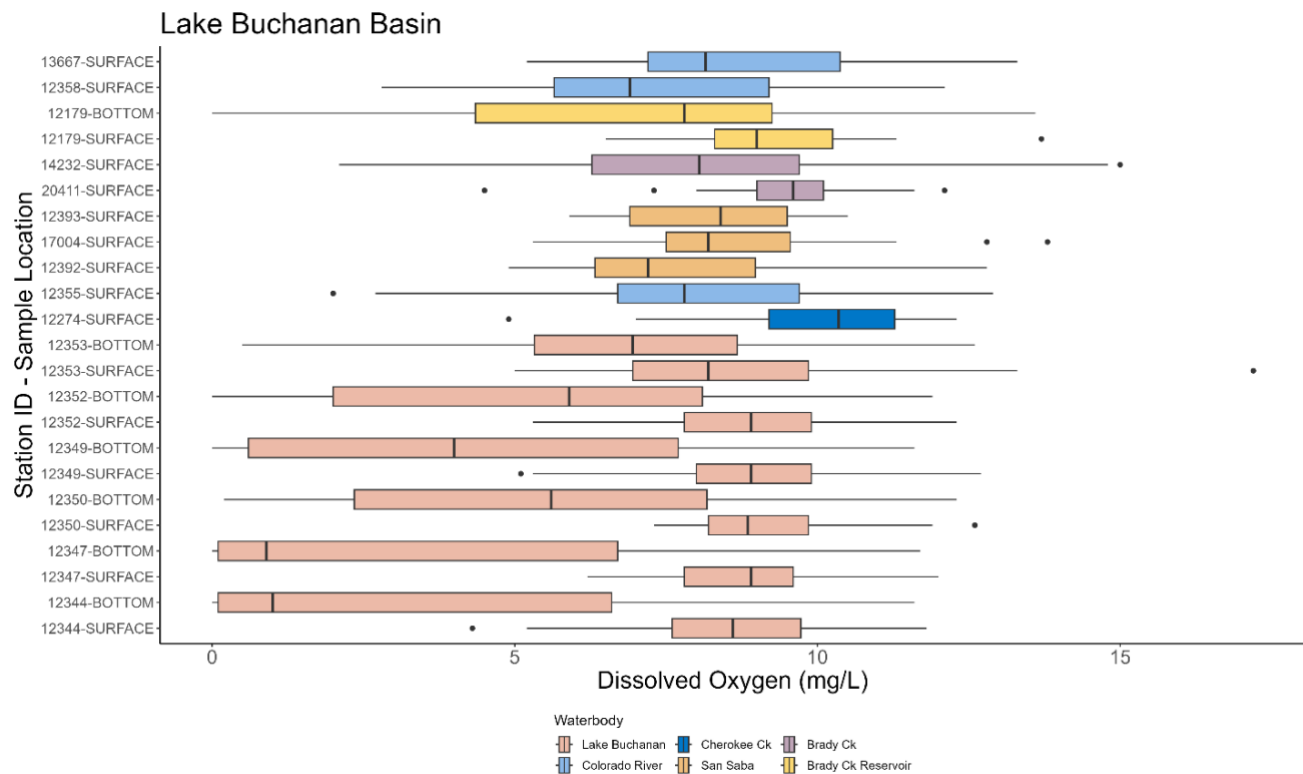
Water Temperature



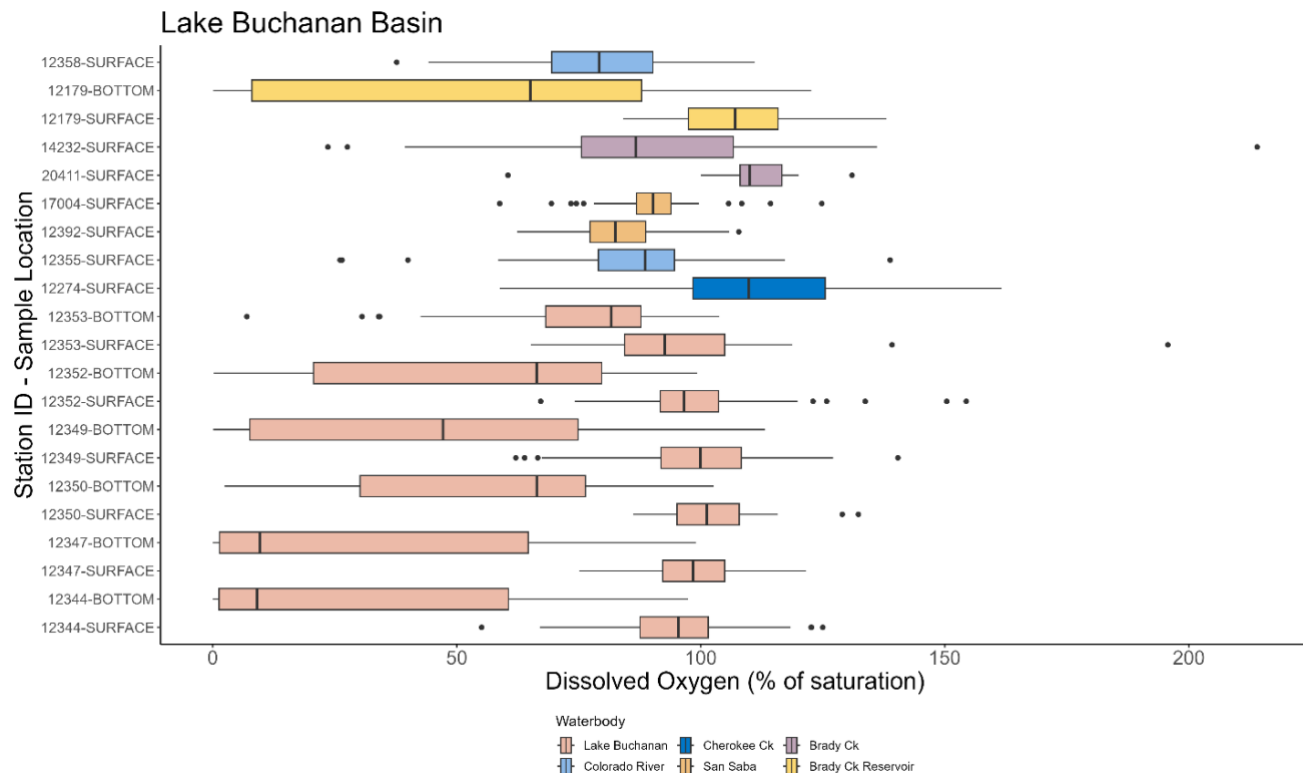
Secchi disc depth



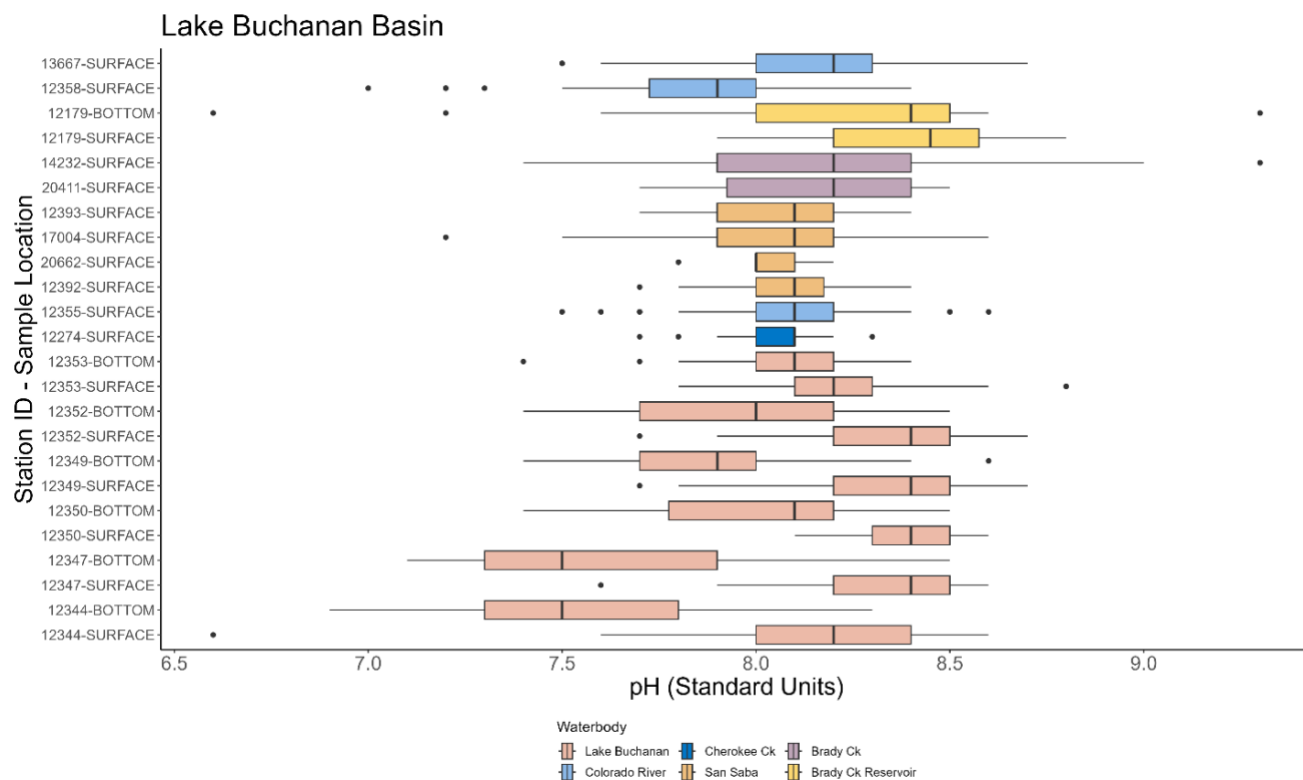
Dissolved Oxygen



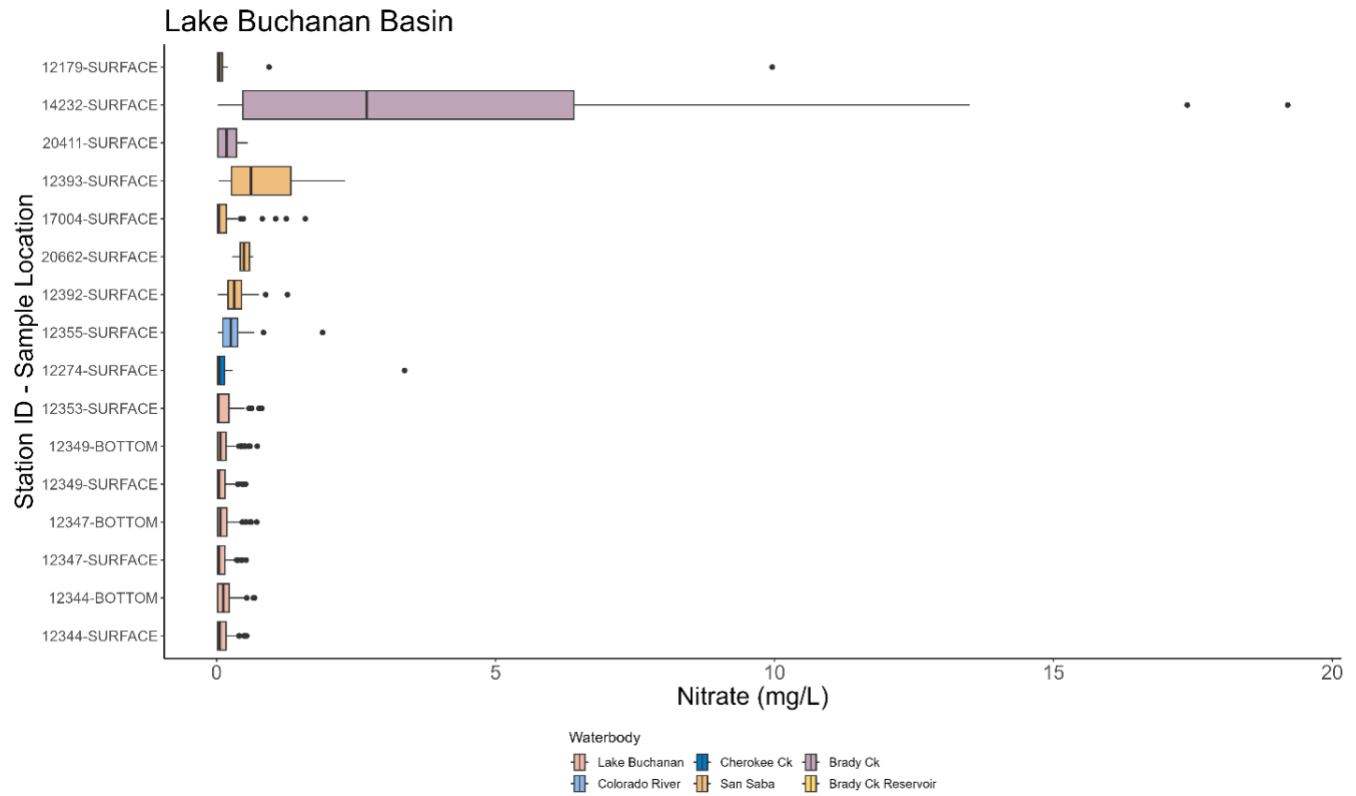
Dissolved Oxygen (% of saturation)



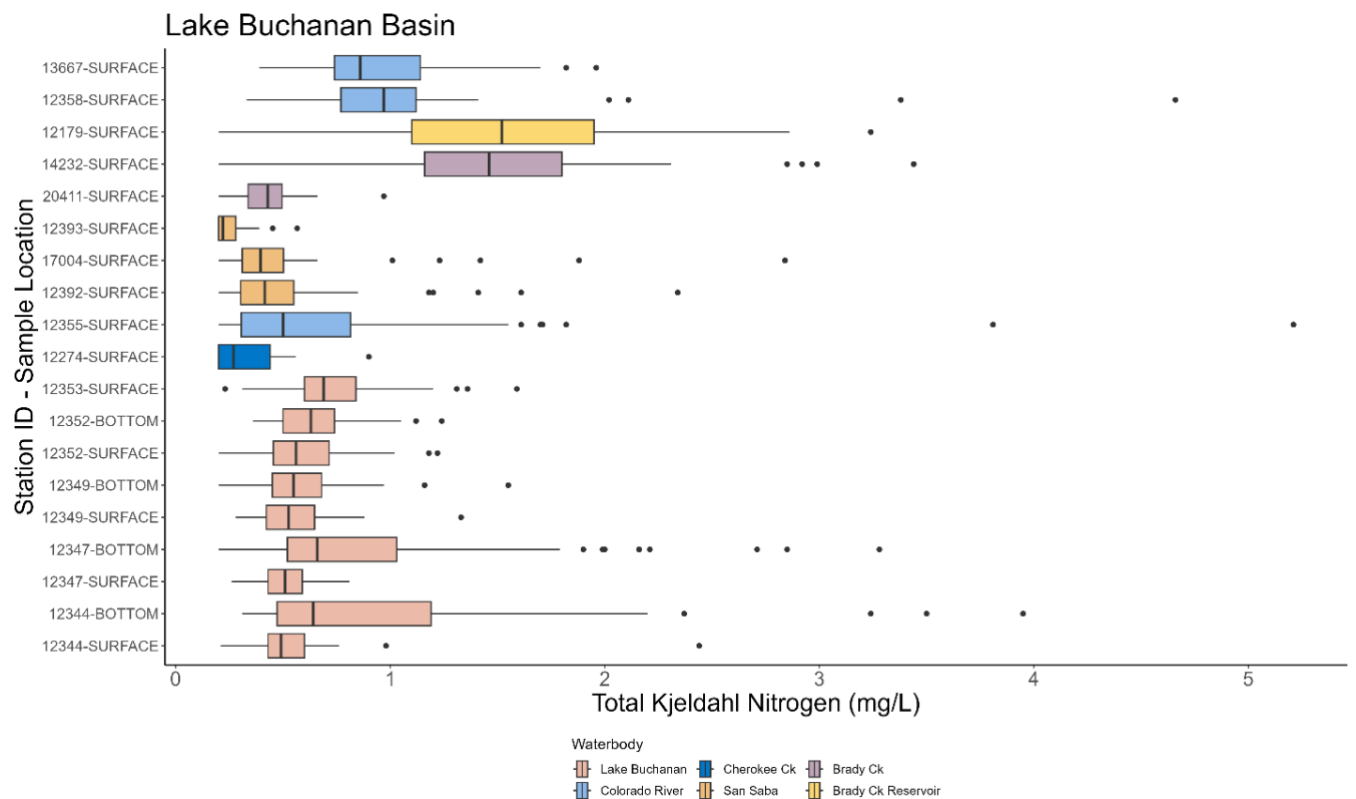
pH



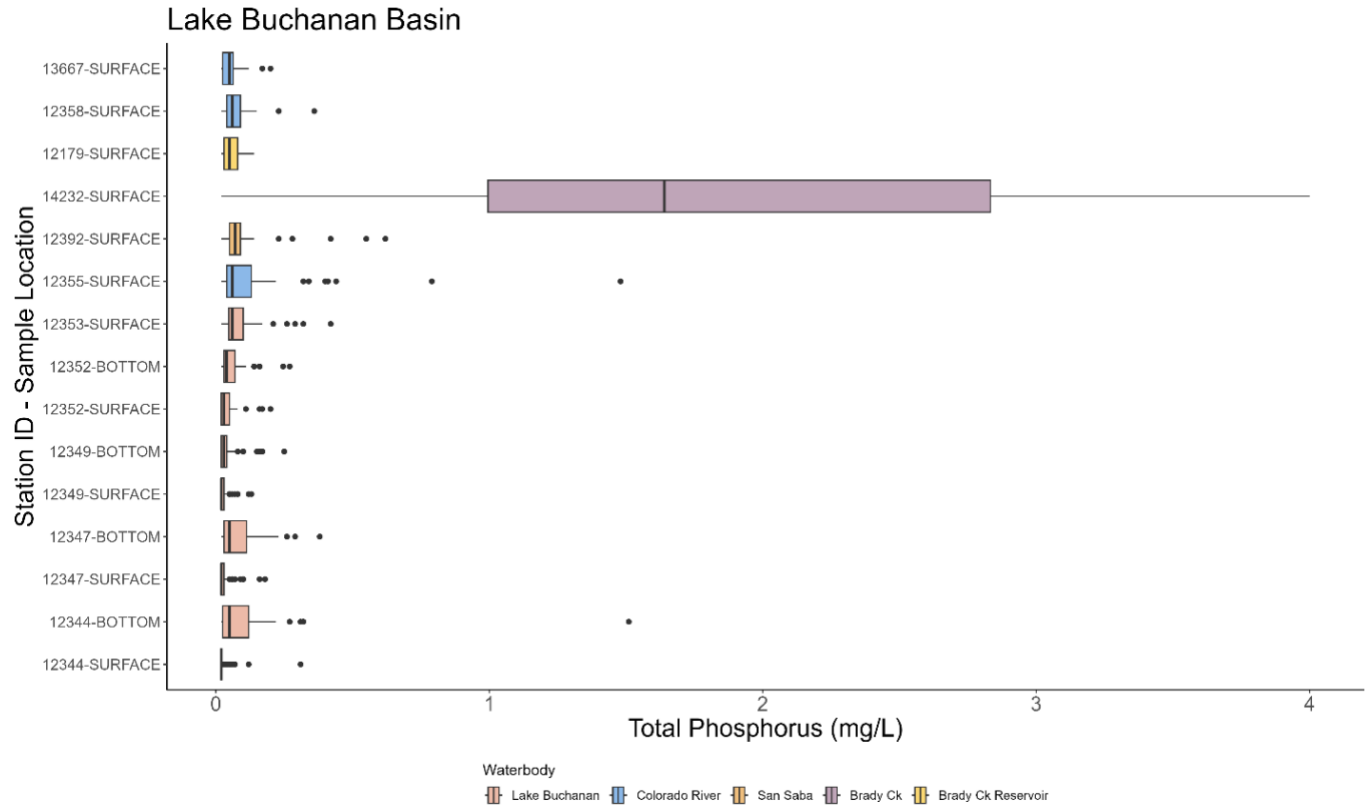
Nitrate



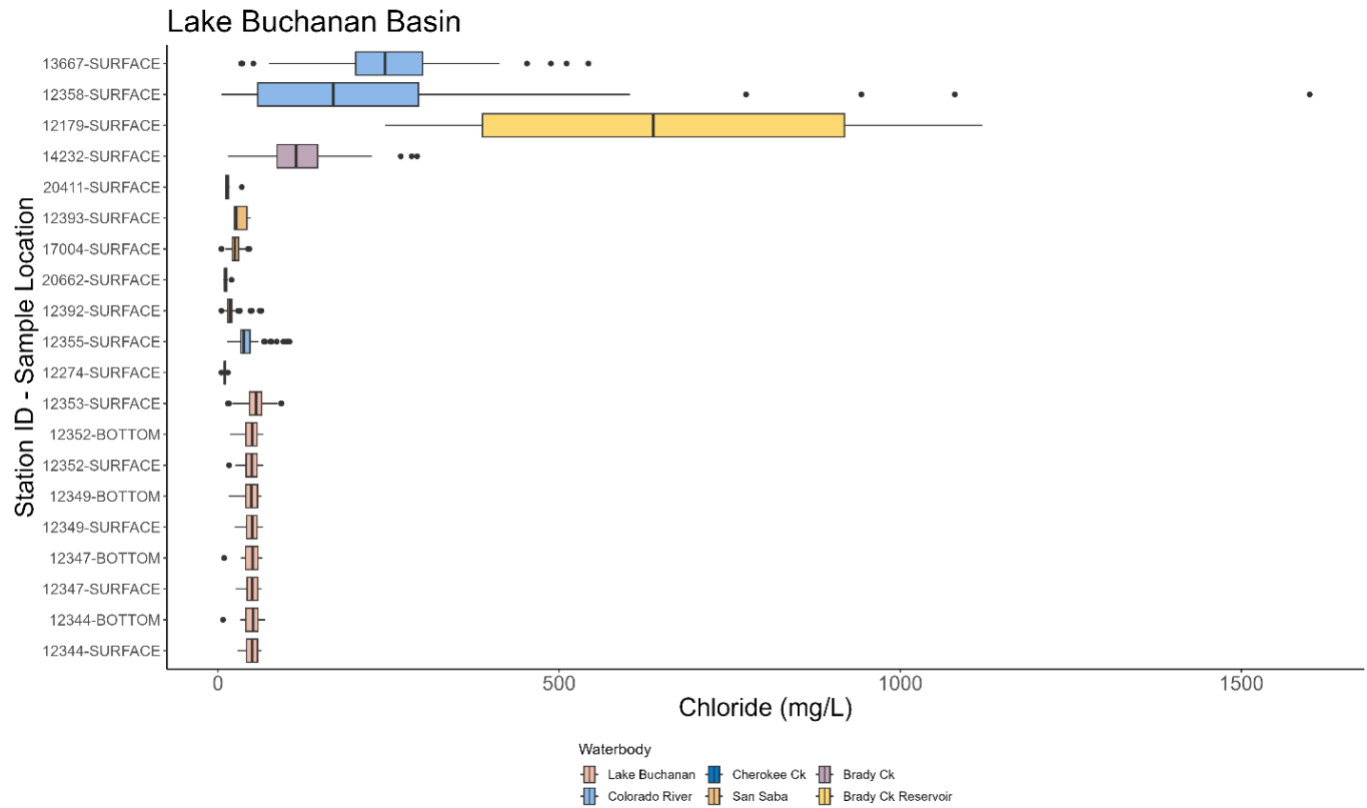
Total Kjeldahl Nitrogen



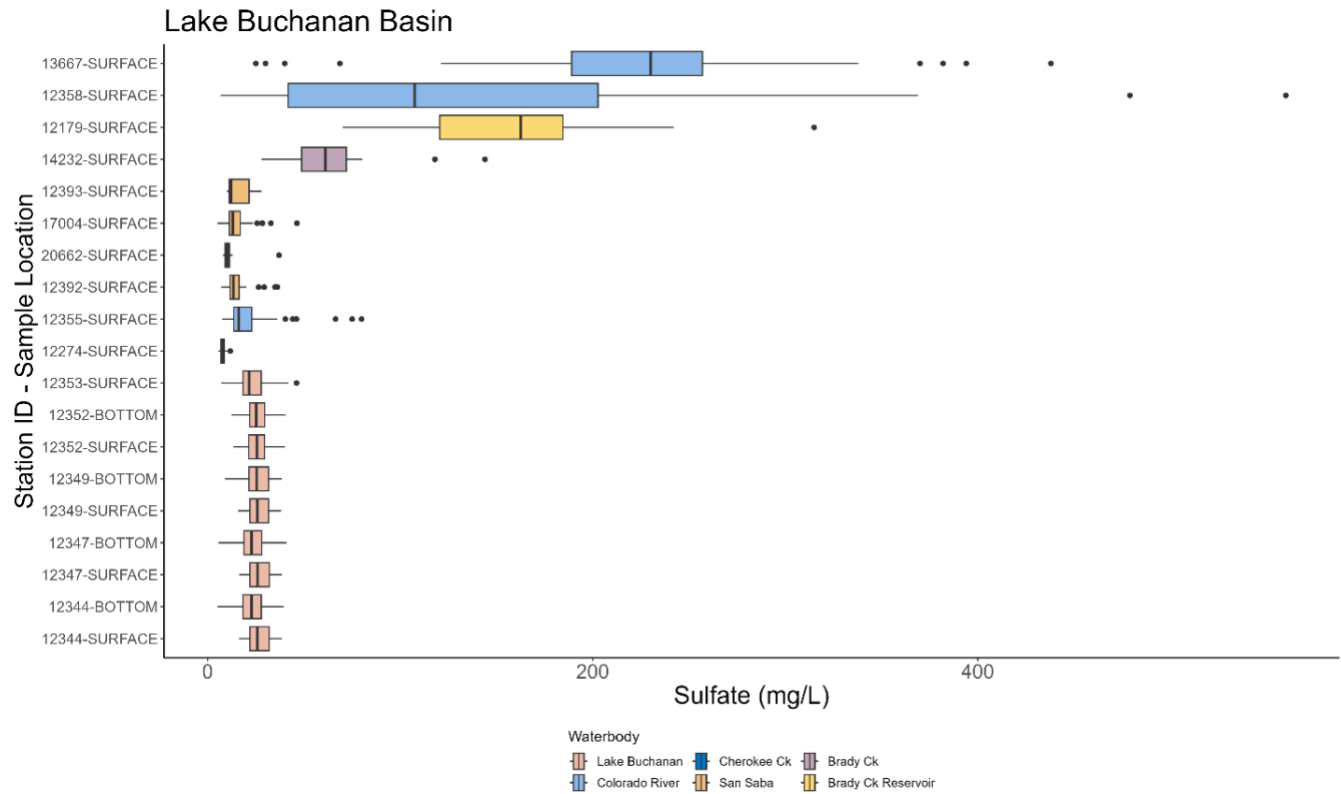
Total Phosphorus



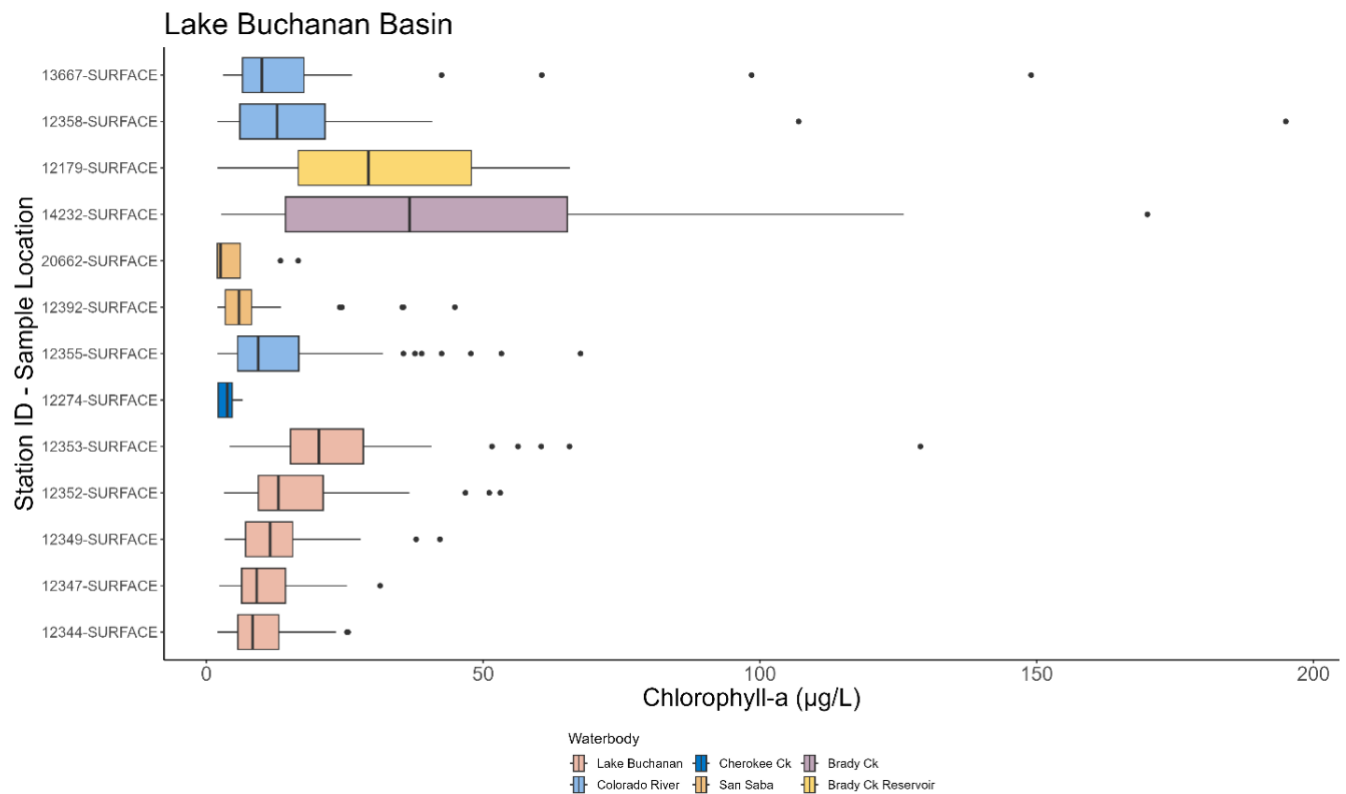
Chloride



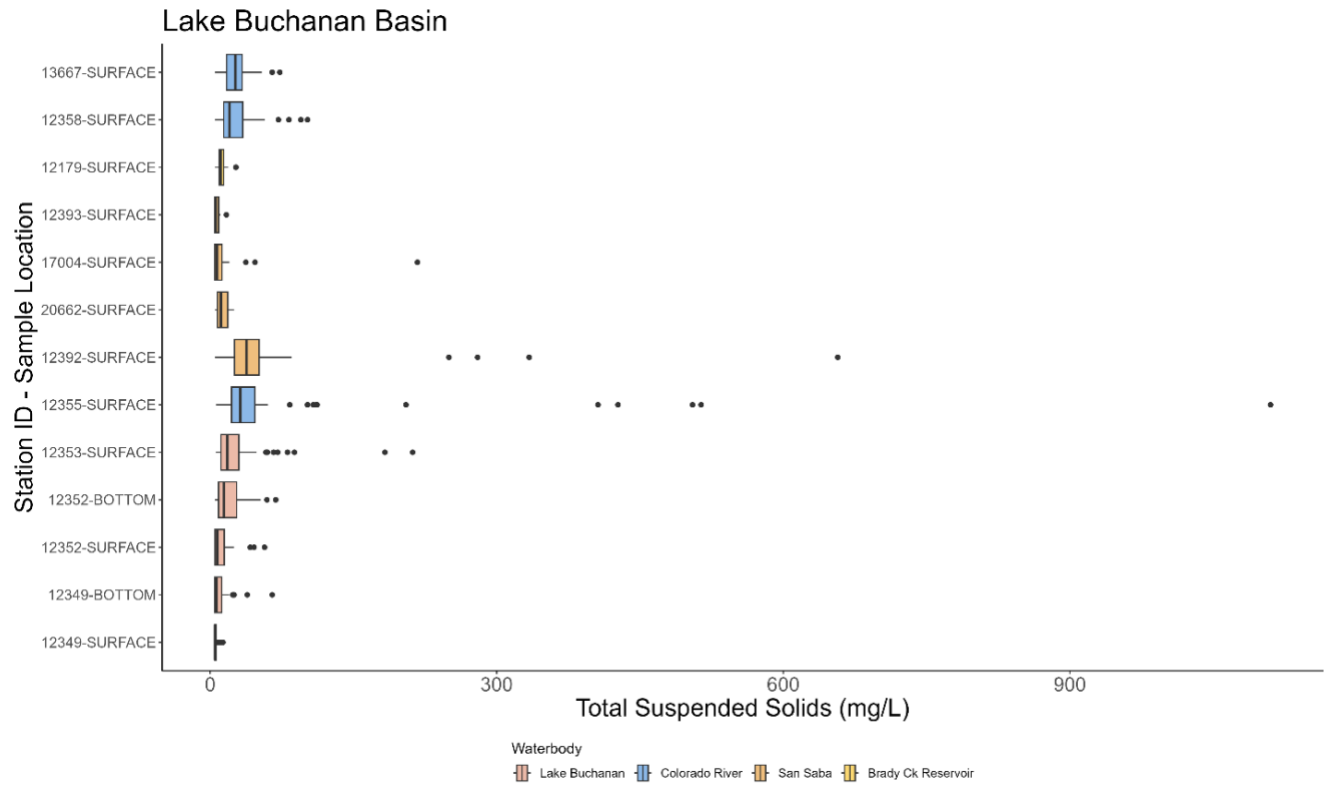
Sulfate



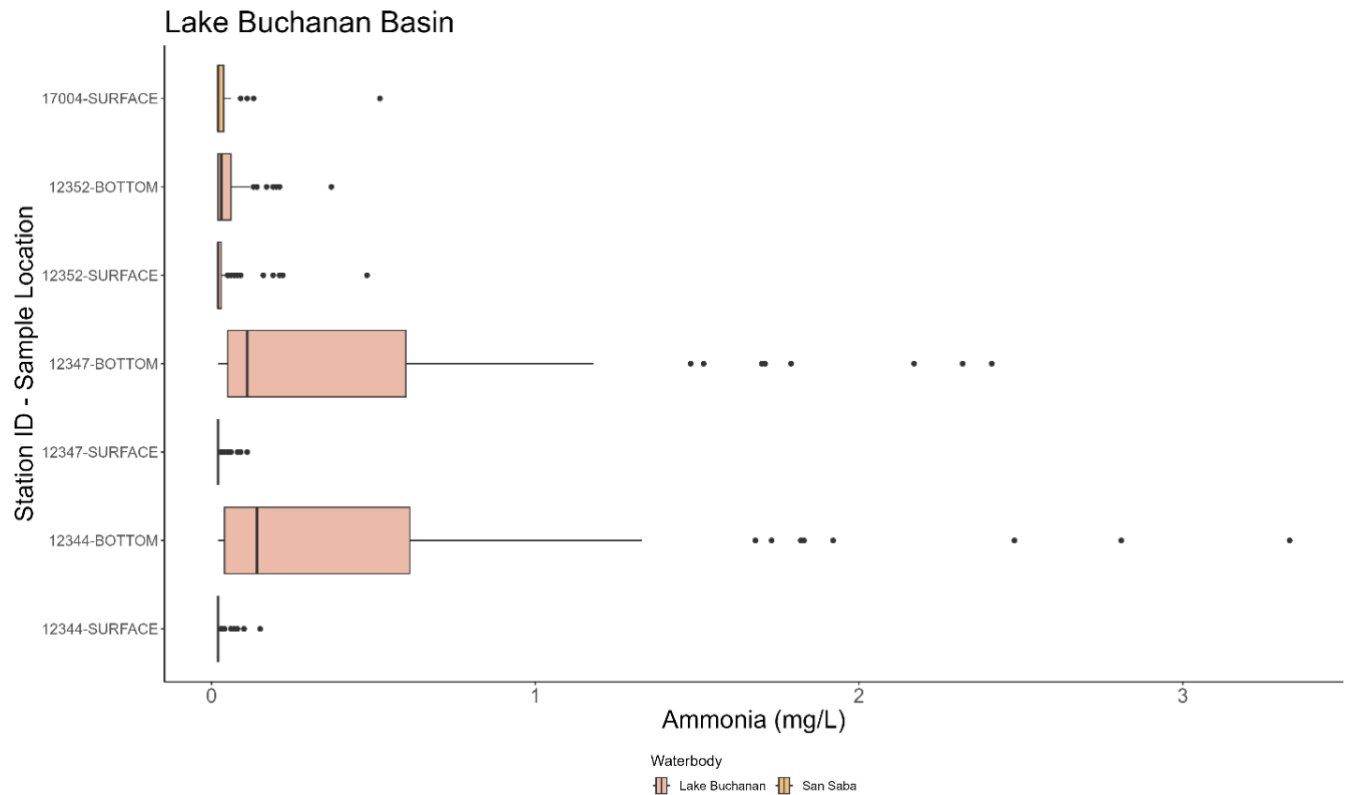
Chlorophyll a



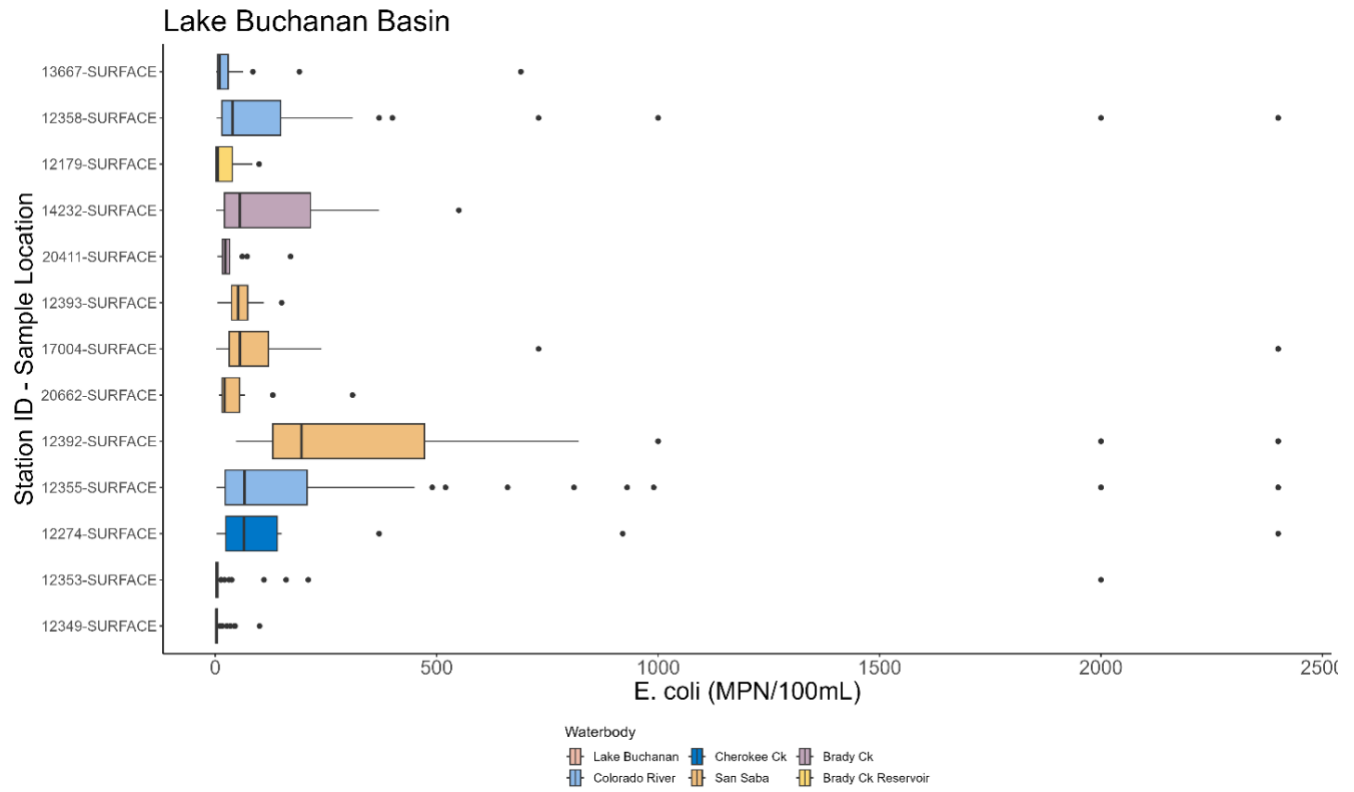
Total Suspended Solids



Ammonia



E. coli



Multiple Comparison Table

Multiple comparisons using Tukey-HSD after a significant ANOVA has been noted for the parameter. Sites that are being compared on a given row are mentioned in the Site Comparison column. The estimated difference between the sites for a given parameter is in the Difference column with the 95% confidence interval for the difference lying between the 95% Low and 95% High columns. As long as the 95% confidence interval does not contain zero, the sites should be statistically different (p -value < 0.05) for a given parameter.

Parameter Code	Parameter	WSHED	Site Comparison	Difference	95% Low Diff	95% High Diff	p-value
00010	Water Temperature (°C)	Buchanan	12344-BOTTOM-12179-SURFACE	-5.9342	-11.5089	-0.3596	0.0221
00010	Water Temperature (°C)	Buchanan	12344-BOTTOM-12274-SURFACE	-6.6299	-12.6553	-0.6045	0.0136
00010	Water Temperature (°C)	Buchanan	12344-SURFACE-12344-BOTTOM	5.8338	1.8168	9.8507	<0.0001
00010	Water Temperature (°C)	Buchanan	12347-SURFACE-12344-BOTTOM	6.3805	2.3636	10.3975	<0.0001
00010	Water Temperature (°C)	Buchanan	12349-BOTTOM-12344-BOTTOM	4.6156	0.5986	8.6325	0.0068
00010	Water Temperature (°C)	Buchanan	12349-SURFACE-12344-BOTTOM	6.7831	2.7662	10.8001	<0.0001
00010	Water Temperature (°C)	Buchanan	12350-SURFACE-12344-BOTTOM	6.4364	0.9359	11.9368	0.0049
00010	Water Temperature (°C)	Buchanan	12352-BOTTOM-12344-BOTTOM	4.8299	0.8129	8.8468	0.003
00010	Water Temperature (°C)	Buchanan	12352-SURFACE-12344-BOTTOM	7.0429	3.0259	11.0598	<0.0001
00010	Water Temperature (°C)	Buchanan	12353-BOTTOM-12344-BOTTOM	6.4392	1.7945	11.0838	1e-04
00010	Water Temperature (°C)	Buchanan	12353-SURFACE-12344-BOTTOM	7.0844	2.6841	11.4848	<0.0001
00010	Water Temperature (°C)	Buchanan	12355-SURFACE-12344-BOTTOM	5.2935	1.1125	9.4745	0.0011
00010	Water Temperature (°C)	Buchanan	12358-SURFACE-12344-BOTTOM	5.2026	1.0216	9.3836	0.0015
00010	Water Temperature (°C)	Buchanan	12392-SURFACE-12344-BOTTOM	5.3814	1.2004	9.5624	8e-04
00010	Water Temperature (°C)	Buchanan	13667-SURFACE-12344-BOTTOM	5.2783	0.6336	9.9230	0.0081
00010	Water Temperature (°C)	Buchanan	14232-SURFACE-12344-BOTTOM	6.3962	1.4104	11.3820	8e-04
00010	Water Temperature (°C)	Buchanan	17004-SURFACE-12344-BOTTOM	4.6956	0.0820	9.3093	0.0403
00010	Water Temperature (°C)	Buchanan	12347-BOTTOM-12344-SURFACE	-4.9156	-8.9325	-0.8986	0.0021
00010	Water Temperature (°C)	Buchanan	12347-SURFACE-12347-BOTTOM	5.4623	1.4454	9.4793	2e-04
00010	Water Temperature (°C)	Buchanan	12349-SURFACE-12347-BOTTOM	5.8649	1.8480	9.8819	<0.0001
00010	Water Temperature (°C)	Buchanan	12350-SURFACE-12347-BOTTOM	5.5182	0.0178	11.0186	0.0481
00010	Water Temperature (°C)	Buchanan	12352-SURFACE-12347-BOTTOM	6.1247	2.1077	10.1416	<0.0001
00010	Water Temperature (°C)	Buchanan	12353-BOTTOM-12347-BOTTOM	5.5210	0.8763	10.1656	0.0037
00010	Water Temperature (°C)	Buchanan	12353-SURFACE-12347-BOTTOM	6.1662	1.7659	10.5666	1e-04

00010	Water Temperature (°C)	Buchanan	12355-SURFACE-12347-BOTTOM	4.3753	0.1944	8.5563	0.028
00010	Water Temperature (°C)	Buchanan	12358-SURFACE-12347-BOTTOM	4.2844	0.1034	8.4654	0.0369
00010	Water Temperature (°C)	Buchanan	12392-SURFACE-12347-BOTTOM	4.4632	0.2822	8.6442	0.0212
00010	Water Temperature (°C)	Buchanan	14232-SURFACE-12347-BOTTOM	5.4780	0.4923	10.4638	0.0139
00078	Secchi disc (m)	Buchanan	12344-SURFACE-12179-SURFACE	0.8018	0.5054	1.0981	<0.0001
00078	Secchi disc (m)	Buchanan	12347-SURFACE-12179-SURFACE	0.5649	0.2685	0.8612	<0.0001
00078	Secchi disc (m)	Buchanan	12349-SURFACE-12179-SURFACE	0.4142	0.1179	0.7106	4e-04
00078	Secchi disc (m)	Buchanan	12353-SURFACE-12179-SURFACE	-0.3237	-0.6356	-0.0119	0.0342
00078	Secchi disc (m)	Buchanan	12355-SURFACE-12179-SURFACE	-0.5772	-1.0633	-0.0910	0.0065
00078	Secchi disc (m)	Buchanan	13667-SURFACE-12179-SURFACE	-0.5366	-0.8584	-0.2148	<0.0001
00078	Secchi disc (m)	Buchanan	14232-SURFACE-12179-SURFACE	-0.4495	-0.8085	-0.0905	0.0029
00078	Secchi disc (m)	Buchanan	12347-SURFACE-12344-SURFACE	-0.2369	-0.4474	-0.0263	0.0134
00078	Secchi disc (m)	Buchanan	12349-SURFACE-12344-SURFACE	-0.3875	-0.5981	-0.1770	<0.0001
00078	Secchi disc (m)	Buchanan	12350-SURFACE-12344-SURFACE	-1.0394	-1.3277	-0.7510	<0.0001
00078	Secchi disc (m)	Buchanan	12352-SURFACE-12344-SURFACE	-0.8427	-1.0533	-0.6322	<0.0001
00078	Secchi disc (m)	Buchanan	12353-SURFACE-12344-SURFACE	-1.1255	-1.3574	-0.8936	<0.0001
00078	Secchi disc (m)	Buchanan	12355-SURFACE-12344-SURFACE	-1.3789	-1.8181	-0.9398	<0.0001
00078	Secchi disc (m)	Buchanan	12393-SURFACE-12344-SURFACE	-0.7931	-1.1036	-0.4827	<0.0001
00078	Secchi disc (m)	Buchanan	13667-SURFACE-12344-SURFACE	-1.3384	-1.5835	-1.0932	<0.0001
00078	Secchi disc (m)	Buchanan	14232-SURFACE-12344-SURFACE	-1.2513	-1.5435	-0.9590	<0.0001
00078	Secchi disc (m)	Buchanan	12350-SURFACE-12347-SURFACE	-0.8025	-1.0908	-0.5141	<0.0001
00078	Secchi disc (m)	Buchanan	12352-SURFACE-12347-SURFACE	-0.6058	-0.8164	-0.3953	<0.0001
00078	Secchi disc (m)	Buchanan	12353-SURFACE-12347-SURFACE	-0.8886	-1.1205	-0.6567	<0.0001
00078	Secchi disc (m)	Buchanan	12355-SURFACE-12347-SURFACE	-1.1420	-1.5812	-0.7029	<0.0001
00078	Secchi disc (m)	Buchanan	12393-SURFACE-12347-SURFACE	-0.5563	-0.8667	-0.2458	<0.0001
00078	Secchi disc (m)	Buchanan	13667-SURFACE-12347-SURFACE	-1.1015	-1.3466	-0.8563	<0.0001
00078	Secchi disc (m)	Buchanan	14232-SURFACE-12347-SURFACE	-1.0144	-1.3066	-0.7222	<0.0001
00078	Secchi disc (m)	Buchanan	12350-SURFACE-12349-SURFACE	-0.6518	-0.9401	-0.3635	<0.0001
00078	Secchi disc (m)	Buchanan	12352-SURFACE-12349-SURFACE	-0.4552	-0.6658	-0.2446	<0.0001
00078	Secchi disc (m)	Buchanan	12353-SURFACE-12349-SURFACE	-0.7380	-0.9699	-0.5061	<0.0001
00078	Secchi disc (m)	Buchanan	12355-SURFACE-12349-SURFACE	-0.9914	-1.4306	-0.5522	<0.0001
00078	Secchi disc (m)	Buchanan	12393-SURFACE-12349-SURFACE	-0.4056	-0.7161	-0.0952	0.0014

00078	Secchi disc (m)	Buchanan	13667-SURFACE-12349-SURFACE	-0.9508	-1.1960	-0.7057	<0.0001
00078	Secchi disc (m)	Buchanan	14232-SURFACE-12349-SURFACE	-0.8637	-1.1559	-0.5715	<0.0001
00078	Secchi disc (m)	Buchanan	12353-SURFACE-12352-SURFACE	-0.2828	-0.5147	-0.0509	0.0044
00078	Secchi disc (m)	Buchanan	12355-SURFACE-12352-SURFACE	-0.5362	-0.9754	-0.0970	0.0043
00078	Secchi disc (m)	Buchanan	13667-SURFACE-12352-SURFACE	-0.4956	-0.7408	-0.2505	<0.0001
00078	Secchi disc (m)	Buchanan	14232-SURFACE-12352-SURFACE	-0.4085	-0.7007	-0.1163	4e-04
00078	Secchi disc (m)	Buchanan	12393-SURFACE-12353-SURFACE	0.3324	0.0071	0.6577	0.0404
00078	Secchi disc (m)	Buchanan	12393-SURFACE-12355-SURFACE	0.5858	0.0909	1.0807	0.0068
00078	Secchi disc (m)	Buchanan	13667-SURFACE-12393-SURFACE	-0.5452	-0.8801	-0.2103	<0.0001
00078	Secchi disc (m)	Buchanan	14232-SURFACE-12393-SURFACE	-0.4581	-0.8288	-0.0874	0.0036
00300	Dissolved Oxygen (mg/L)	Buchanan	12274-SURFACE-12179-BOTTOM	3.4966	0.7363	6.2570	0.0011
00300	Dissolved Oxygen (mg/L)	Buchanan	12344-BOTTOM-12179-BOTTOM	-3.4417	-5.6412	-1.2422	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12347-BOTTOM-12179-BOTTOM	-3.2235	-5.4230	-1.0240	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12347-SURFACE-12179-BOTTOM	2.3142	0.1147	4.5137	0.0262
00300	Dissolved Oxygen (mg/L)	Buchanan	12349-SURFACE-12179-BOTTOM	2.3363	0.1368	4.5357	0.023
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-SURFACE-12179-BOTTOM	2.7311	0.1263	5.3358	0.0275
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-SURFACE-12179-BOTTOM	2.3090	0.1095	4.5085	0.027
00300	Dissolved Oxygen (mg/L)	Buchanan	12344-BOTTOM-12179-SURFACE	-6.0851	-8.2846	-3.8857	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12347-BOTTOM-12179-SURFACE	-5.8670	-8.0665	-3.6675	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12349-BOTTOM-12179-SURFACE	-4.7189	-6.9184	-2.5194	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-BOTTOM-12179-SURFACE	-4.0196	-6.6244	-1.4148	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-BOTTOM-12179-SURFACE	-3.9605	-6.1600	-1.7610	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12344-BOTTOM-12274-SURFACE	-6.9383	-9.1760	-4.7007	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12347-BOTTOM-12274-SURFACE	-6.7201	-8.9578	-4.4825	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12349-BOTTOM-12274-SURFACE	-5.5721	-7.8097	-3.3344	<0.0001

00300	Dissolved Oxygen (mg/L)	Buchanan	12350-BOTTOM-12274-SURFACE	-4.8727	-7.5098	-2.2356	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-BOTTOM-12274-SURFACE	-4.8136	-7.0513	-2.5760	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-BOTTOM-12274-SURFACE	-3.0684	-5.4677	-0.6690	9e-04
00300	Dissolved Oxygen (mg/L)	Buchanan	12358-SURFACE-12274-SURFACE	-2.6212	-4.8999	-0.3425	0.0068
00300	Dissolved Oxygen (mg/L)	Buchanan	12344-SURFACE-12344-BOTTOM	5.5340	4.0373	7.0307	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12347-SURFACE-12344-BOTTOM	5.7558	4.2641	7.2476	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12349-SURFACE-12344-BOTTOM	5.7779	4.2862	7.2697	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-BOTTOM-12344-BOTTOM	2.0656	0.0229	4.1083	0.0437
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-SURFACE-12344-BOTTOM	6.1727	4.1300	8.2154	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-BOTTOM-12344-BOTTOM	2.1247	0.6329	3.6164	1e-04
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-SURFACE-12344-BOTTOM	5.7506	4.2589	7.2424	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-BOTTOM-12344-BOTTOM	3.8699	2.1451	5.5948	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-SURFACE-12344-BOTTOM	5.4883	3.8542	7.1225	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12355-SURFACE-12344-BOTTOM	4.8974	3.3447	6.4501	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12358-SURFACE-12344-BOTTOM	4.3171	2.7644	5.8698	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12392-SURFACE-12344-BOTTOM	4.6686	3.1159	6.2213	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12393-SURFACE-12344-BOTTOM	5.0556	2.9249	7.1862	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	13667-SURFACE-12344-BOTTOM	5.5786	3.8537	7.3035	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	14232-SURFACE-12344-BOTTOM	4.8862	2.9802	6.7921	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	17004-SURFACE-12344-BOTTOM	5.4369	3.7235	7.1502	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	20411-SURFACE-12344-BOTTOM	6.2656	3.5763	8.9549	<0.0001

00300	Dissolved Oxygen (mg/L)	Buchanan	12347-BOTTOM-12344-SURFACE	-5.3158	-6.8125	-3.8192	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12349-BOTTOM-12344-SURFACE	-4.1678	-5.6644	-2.6711	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-BOTTOM-12344-SURFACE	-3.4684	-5.5147	-1.4222	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-BOTTOM-12344-SURFACE	-3.4093	-4.9060	-1.9127	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12347-SURFACE-12347-BOTTOM	5.5377	4.0459	7.0294	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12349-SURFACE-12347-BOTTOM	5.5597	4.0680	7.0515	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-SURFACE-12347-BOTTOM	5.9545	3.9119	7.9972	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-BOTTOM-12347-BOTTOM	1.9065	0.4147	3.3983	9e-04
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-SURFACE-12347-BOTTOM	5.5325	4.0407	7.0242	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-BOTTOM-12347-BOTTOM	3.6518	1.9269	5.3766	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-SURFACE-12347-BOTTOM	5.2701	3.6360	6.9043	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12355-SURFACE-12347-BOTTOM	4.6792	3.1265	6.2319	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12358-SURFACE-12347-BOTTOM	4.0989	2.5462	5.6516	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12392-SURFACE-12347-BOTTOM	4.4504	2.8978	6.0031	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12393-SURFACE-12347-BOTTOM	4.8374	2.7067	6.9681	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	13667-SURFACE-12347-BOTTOM	5.3604	3.6356	7.0853	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	14232-SURFACE-12347-BOTTOM	4.6680	2.7621	6.5739	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	17004-SURFACE-12347-BOTTOM	5.2187	3.5053	6.9320	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	20411-SURFACE-12347-BOTTOM	6.0474	3.3581	8.7367	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12349-BOTTOM-12347-SURFACE	-4.3896	-5.8814	-2.8978	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-BOTTOM-12347-SURFACE	-3.6903	-5.7329	-1.6476	<0.0001

00300	Dissolved Oxygen (mg/L)	Buchanan	12352-BOTTOM-12347-SURFACE	-3.6312	-5.1229	-2.1394	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-BOTTOM-12347-SURFACE	-1.8859	-3.6108	-0.1610	0.0152
00300	Dissolved Oxygen (mg/L)	Buchanan	12349-SURFACE-12349-BOTTOM	4.4117	2.9199	5.9035	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-SURFACE-12349-BOTTOM	4.8065	2.7638	6.8492	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-SURFACE-12349-BOTTOM	4.3844	2.8927	5.8762	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-BOTTOM-12349-BOTTOM	2.5037	0.7788	4.2286	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-SURFACE-12349-BOTTOM	4.1221	2.4879	5.7562	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12355-SURFACE-12349-BOTTOM	3.5312	1.9785	5.0838	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12358-SURFACE-12349-BOTTOM	2.9509	1.3982	4.5035	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12392-SURFACE-12349-BOTTOM	3.3024	1.7497	4.8551	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12393-SURFACE-12349-BOTTOM	3.6894	1.5587	5.8200	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	13667-SURFACE-12349-BOTTOM	4.2124	2.4875	5.9373	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	14232-SURFACE-12349-BOTTOM	3.5199	1.6140	5.4259	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	17004-SURFACE-12349-BOTTOM	4.0706	2.3573	5.7840	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	20411-SURFACE-12349-BOTTOM	4.8994	2.2100	7.5887	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-BOTTOM-12349-SURFACE	-3.7123	-5.7550	-1.6697	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-BOTTOM-12349-SURFACE	-3.6532	-5.1450	-2.1615	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-BOTTOM-12349-SURFACE	-1.9080	-3.6329	-0.1831	0.0127
00300	Dissolved Oxygen (mg/L)	Buchanan	12350-SURFACE-12350-BOTTOM	4.1071	1.6333	6.5810	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-SURFACE-12350-BOTTOM	3.6851	1.6424	5.7277	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-SURFACE-12350-BOTTOM	3.4227	1.2739	5.5716	<0.0001

00300	Dissolved Oxygen (mg/L)	Buchanan	12355-SURFACE-12350-BOTTOM	2.8318	0.7442	4.9194	2e-04
00300	Dissolved Oxygen (mg/L)	Buchanan	12358-SURFACE-12350-BOTTOM	2.2515	0.1639	4.3391	0.0185
00300	Dissolved Oxygen (mg/L)	Buchanan	12392-SURFACE-12350-BOTTOM	2.6030	0.5155	4.6906	0.0015
00300	Dissolved Oxygen (mg/L)	Buchanan	12393-SURFACE-12350-BOTTOM	2.9900	0.4431	5.5369	0.0048
00300	Dissolved Oxygen (mg/L)	Buchanan	13667-SURFACE-12350-BOTTOM	3.5130	1.2944	5.7317	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	14232-SURFACE-12350-BOTTOM	2.8206	0.4584	5.1827	0.0035
00300	Dissolved Oxygen (mg/L)	Buchanan	17004-SURFACE-12350-BOTTOM	3.3713	1.1616	5.5810	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	20411-SURFACE-12350-BOTTOM	4.2000	1.1702	7.2298	1e-04
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-BOTTOM-12350-SURFACE	-4.0481	-6.0907	-2.0054	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-BOTTOM-12350-SURFACE	-2.3028	-4.5214	-0.0841	0.0314
00300	Dissolved Oxygen (mg/L)	Buchanan	12352-SURFACE-12352-BOTTOM	3.6260	2.1342	5.1177	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-BOTTOM-12352-BOTTOM	1.7453	0.0204	3.4701	0.0434
00300	Dissolved Oxygen (mg/L)	Buchanan	12353-SURFACE-12352-BOTTOM	3.3636	1.7295	4.9978	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12355-SURFACE-12352-BOTTOM	2.7727	1.2201	4.3254	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12358-SURFACE-12352-BOTTOM	2.1924	0.6397	3.7451	1e-04
00300	Dissolved Oxygen (mg/L)	Buchanan	12392-SURFACE-12352-BOTTOM	2.5439	0.9913	4.0966	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	12393-SURFACE-12352-BOTTOM	2.9309	0.8002	5.0616	2e-04
00300	Dissolved Oxygen (mg/L)	Buchanan	13667-SURFACE-12352-BOTTOM	3.4540	1.7291	5.1788	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	14232-SURFACE-12352-BOTTOM	2.7615	0.8556	4.6674	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	17004-SURFACE-12352-BOTTOM	3.3122	1.5988	5.0255	<0.0001
00300	Dissolved Oxygen (mg/L)	Buchanan	20411-SURFACE-12352-BOTTOM	4.1409	1.4516	6.8302	<0.0001

00300	Dissolved Oxygen (mg/L)	Buchanan	12353-BOTTOM-12352-SURFACE	-1.8807	-3.6056	-0.1558	0.0158
00301	Dissolved Oxygen (% of saturation)	Buchanan	12179-SURFACE-12179-BOTTOM	50.8917	17.0311	84.7523	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12274-SURFACE-12179-BOTTOM	55.1000	25.0858	85.1142	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12344-BOTTOM-12179-BOTTOM	-29.0253	-54.8128	-3.2379	0.0101
00301	Dissolved Oxygen (% of saturation)	Buchanan	12344-SURFACE-12179-BOTTOM	37.3023	11.4908	63.1137	1e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12347-BOTTOM-12179-BOTTOM	-26.8093	-52.5968	-1.0219	0.0311
00301	Dissolved Oxygen (% of saturation)	Buchanan	12347-SURFACE-12179-BOTTOM	40.6947	14.9072	66.4821	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-SURFACE-12179-BOTTOM	41.8173	16.0299	67.6048	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-SURFACE-12179-BOTTOM	45.2512	16.6338	73.8686	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-SURFACE-12179-BOTTOM	41.8213	16.0339	67.6088	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-SURFACE-12179-BOTTOM	38.3013	11.7859	64.8167	1e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12355-SURFACE-12179-BOTTOM	28.3630	2.2717	54.4544	0.017
00301	Dissolved Oxygen (% of saturation)	Buchanan	14232-SURFACE-12179-BOTTOM	32.5726	3.9552	61.1900	0.0084
00301	Dissolved Oxygen (% of saturation)	Buchanan	17004-SURFACE-12179-BOTTOM	32.7638	5.8785	59.6490	0.0026
00301	Dissolved Oxygen (% of saturation)	Buchanan	20411-SURFACE-12179-BOTTOM	51.2119	18.5830	83.8408	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12344-BOTTOM-12179-SURFACE	-79.9170	-105.7045	-54.1295	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12347-BOTTOM-12179-SURFACE	-77.7010	-103.4885	-51.9135	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-BOTTOM-12179-SURFACE	-63.9797	-89.7671	-38.1922	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-BOTTOM-12179-SURFACE	-56.2548	-84.8722	-27.6373	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-BOTTOM-12179-SURFACE	-55.5663	-81.3538	-29.7789	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12179-SURFACE	-33.4470	-60.4584	-6.4356	0.0019

00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12179-SURFACE	-29.3286	-55.4200	-3.2373	0.0103
00301	Dissolved Oxygen (% of saturation)	Buchanan	12344-BOTTOM-12274-SURFACE	-84.1253	-104.6023	-63.6484	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12347-BOTTOM-12274-SURFACE	-81.9093	-102.3863	-61.4324	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-BOTTOM-12274-SURFACE	-68.1880	-88.6650	-47.7110	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-BOTTOM-12274-SURFACE	-60.4631	-84.4061	-36.5200	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-BOTTOM-12274-SURFACE	-59.7747	-80.2516	-39.2977	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12274-SURFACE	-37.6553	-59.6537	-15.6569	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12355-SURFACE-12274-SURFACE	-26.7370	-47.5953	-5.8786	0.001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12274-SURFACE	-33.5370	-54.3953	-12.6786	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12274-SURFACE	-29.4104	-50.2688	-8.5521	1e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	17004-SURFACE-12274-SURFACE	-22.3362	-44.1796	-0.4929	0.0383
00301	Dissolved Oxygen (% of saturation)	Buchanan	12344-SURFACE-12344-BOTTOM	66.3276	52.7377	79.9175	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12347-SURFACE-12344-BOTTOM	69.7200	56.1758	83.2642	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-BOTTOM-12344-BOTTOM	15.9373	2.3931	29.4816	0.0049
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-SURFACE-12344-BOTTOM	70.8427	57.2984	84.3869	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-BOTTOM-12344-BOTTOM	23.6622	5.2935	42.0310	9e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-SURFACE-12344-BOTTOM	74.2765	55.9078	92.6453	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-BOTTOM-12344-BOTTOM	24.3507	10.8064	37.8949	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-SURFACE-12344-BOTTOM	70.8467	57.3024	84.3909	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12344-BOTTOM	46.4700	30.7198	62.2203	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-SURFACE-12344-BOTTOM	67.3266	52.4430	82.2101	<0.0001

00301	Dissolved Oxygen (% of saturation)	Buchanan	12355-SURFACE-12344-BOTTOM	57.3884	43.2741	71.5026	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12344-BOTTOM	50.5884	36.4741	64.7026	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12344-BOTTOM	54.7149	40.6007	68.8291	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	14232-SURFACE-12344-BOTTOM	61.5980	43.2292	79.9667	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	17004-SURFACE-12344-BOTTOM	61.7891	46.2562	77.3220	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	20411-SURFACE-12344-BOTTOM	80.2372	56.0898	104.3846	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12347-BOTTOM-12344-SURFACE	-64.1116	-77.7015	-50.5217	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-BOTTOM-12344-SURFACE	-50.3903	-63.9802	-36.8003	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-BOTTOM-12344-SURFACE	-42.6653	-61.0678	-24.2629	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-BOTTOM-12344-SURFACE	-41.9769	-55.5668	-28.3870	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12344-SURFACE	-19.8576	-35.6471	-4.0680	0.0014
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12344-SURFACE	-15.7392	-29.8973	-1.5812	0.0122
00301	Dissolved Oxygen (% of saturation)	Buchanan	12347-SURFACE-12347-BOTTOM	67.5040	53.9598	81.0482	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-BOTTOM-12347-BOTTOM	13.7213	0.1771	27.2656	0.0429
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-SURFACE-12347-BOTTOM	68.6267	55.0824	82.1709	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-BOTTOM-12347-BOTTOM	21.4462	3.0775	39.8150	0.0056
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-SURFACE-12347-BOTTOM	72.0605	53.6918	90.4293	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-BOTTOM-12347-BOTTOM	22.1347	8.5904	35.6789	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-SURFACE-12347-BOTTOM	68.6307	55.0864	82.1749	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12347-BOTTOM	44.2540	28.5038	60.0043	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-SURFACE-12347-BOTTOM	65.1106	50.2270	79.9941	<0.0001

00301	Dissolved Oxygen (% of saturation)	Buchanan	12355-SURFACE-12347-BOTTOM	55.1724	41.0581	69.2866	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12347-BOTTOM	48.3724	34.2581	62.4866	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12347-BOTTOM	52.4989	38.3847	66.6131	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	14232-SURFACE-12347-BOTTOM	59.3820	41.0132	77.7507	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	17004-SURFACE-12347-BOTTOM	59.5731	44.0402	75.1060	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	20411-SURFACE-12347-BOTTOM	78.0212	53.8738	102.1686	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-BOTTOM-12347-SURFACE	-53.7827	-67.3269	-40.2384	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-BOTTOM-12347-SURFACE	-46.0578	-64.4265	-27.6890	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-BOTTOM-12347-SURFACE	-45.3693	-58.9136	-31.8251	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12347-SURFACE	-23.2500	-39.0002	-7.4997	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12347-SURFACE	-19.1316	-33.2459	-5.0174	3e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12347-SURFACE	-15.0051	-29.1193	-0.8909	0.0231
00301	Dissolved Oxygen (% of saturation)	Buchanan	12349-SURFACE-12349-BOTTOM	54.9053	41.3611	68.4496	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-SURFACE-12349-BOTTOM	58.3392	39.9705	76.7079	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-SURFACE-12349-BOTTOM	54.9093	41.3651	68.4536	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12349-BOTTOM	30.5327	14.7825	46.2829	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-SURFACE-12349-BOTTOM	51.3893	36.5057	66.2728	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12355-SURFACE-12349-BOTTOM	41.4510	27.3368	55.5652	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12349-BOTTOM	34.6510	20.5368	48.7652	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12349-BOTTOM	38.7776	24.6634	52.8918	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	14232-SURFACE-12349-BOTTOM	45.6606	27.2919	64.0293	<0.0001

00301	Dissolved Oxygen (% of saturation)	Buchanan	17004-SURFACE-12349-BOTTOM	45.8518	30.3188	61.3847	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	20411-SURFACE-12349-BOTTOM	64.2999	40.1525	88.4473	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-BOTTOM-12349-SURFACE	-47.1804	-65.5492	-28.8117	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-BOTTOM-12349-SURFACE	-46.4920	-60.0362	-32.9478	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12349-SURFACE	-24.3726	-40.1229	-8.6224	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12349-SURFACE	-20.2543	-34.3685	-6.1401	1e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12349-SURFACE	-16.1277	-30.2420	-2.0135	0.0079
00301	Dissolved Oxygen (% of saturation)	Buchanan	12350-SURFACE-12350-BOTTOM	50.6143	28.4473	72.7812	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-SURFACE-12350-BOTTOM	47.1844	28.8157	65.5532	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12350-BOTTOM	22.8078	2.7570	42.8586	0.0085
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-SURFACE-12350-BOTTOM	43.6644	24.2869	63.0418	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12355-SURFACE-12350-BOTTOM	33.7261	14.9332	52.5191	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12350-BOTTOM	26.9261	8.1332	45.7191	1e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12350-BOTTOM	31.0527	12.2597	49.8456	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	14232-SURFACE-12350-BOTTOM	37.9357	15.7688	60.1027	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	17004-SURFACE-12350-BOTTOM	38.1269	18.2463	58.0074	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	20411-SURFACE-12350-BOTTOM	56.5750	29.4261	83.7239	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-BOTTOM-12350-SURFACE	-49.9259	-68.2946	-31.5571	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12350-SURFACE	-27.8065	-47.8573	-7.7557	2e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12350-SURFACE	-23.6882	-42.4811	-4.8952	0.0013
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12350-SURFACE	-19.5616	-38.3546	-0.7687	0.0306

00301	Dissolved Oxygen (% of saturation)	Buchanan	12352-SURFACE-12352-BOTTOM	46.4960	32.9518	60.0402	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12352-BOTTOM	22.1194	6.3691	37.8696	1e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-SURFACE-12352-BOTTOM	42.9759	28.0924	57.8595	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12355-SURFACE-12352-BOTTOM	33.0377	18.9235	47.1519	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12352-BOTTOM	26.2377	12.1235	40.3519	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12352-BOTTOM	30.3643	16.2500	44.4785	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	14232-SURFACE-12352-BOTTOM	37.2473	18.8786	55.6160	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	17004-SURFACE-12352-BOTTOM	37.4384	21.9055	52.9714	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	20411-SURFACE-12352-BOTTOM	55.8866	31.7392	80.0340	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-BOTTOM-12352-SURFACE	-24.3766	-40.1269	-8.6264	<0.0001
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12352-SURFACE	-20.2583	-34.3725	-6.1441	1e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12392-SURFACE-12352-SURFACE	-16.1317	-30.2460	-2.0175	0.0079
00301	Dissolved Oxygen (% of saturation)	Buchanan	12353-SURFACE-12353-BOTTOM	20.8566	3.9408	37.7723	0.0021
00301	Dissolved Oxygen (% of saturation)	Buchanan	20411-SURFACE-12353-BOTTOM	33.7672	8.3169	59.2176	5e-04
00301	Dissolved Oxygen (% of saturation)	Buchanan	12358-SURFACE-12353-SURFACE	-16.7382	-32.1423	-1.3342	0.0171
00301	Dissolved Oxygen (% of saturation)	Buchanan	20411-SURFACE-12358-SURFACE	29.6489	5.1772	54.1205	0.0029
00301	Dissolved Oxygen (% of saturation)	Buchanan	20411-SURFACE-12392-SURFACE	25.5223	1.0507	49.9940	0.0298
00400	pH (Standard Units)	Buchanan	12344-BOTTOM-12179-BOTTOM	-0.6832	-0.9062	-0.4602	<0.0001
00400	pH (Standard Units)	Buchanan	12347-BOTTOM-12179-BOTTOM	-0.5806	-0.8036	-0.3576	<0.0001
00400	pH (Standard Units)	Buchanan	12349-BOTTOM-12179-BOTTOM	-0.3469	-0.5698	-0.1239	<0.0001
00400	pH (Standard Units)	Buchanan	12352-BOTTOM-12179-BOTTOM	-0.2508	-0.4737	-0.0278	0.0096
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12179-BOTTOM	-0.3388	-0.5663	-0.1114	<0.0001
00400	pH (Standard Units)	Buchanan	12274-SURFACE-12179-SURFACE	-0.3448	-0.6254	-0.0641	0.002
00400	pH (Standard Units)	Buchanan	12344-BOTTOM-12179-SURFACE	-0.8831	-1.1028	-0.6633	<0.0001

00400	pH (Standard Units)	Buchanan	12344-SURFACE-12179-SURFACE	-0.2259	-0.4456	-0.0062	0.0353
00400	pH (Standard Units)	Buchanan	12347-BOTTOM-12179-SURFACE	-0.7805	-1.0002	-0.5607	<0.0001
00400	pH (Standard Units)	Buchanan	12349-BOTTOM-12179-SURFACE	-0.5467	-0.7664	-0.3270	<0.0001
00400	pH (Standard Units)	Buchanan	12350-BOTTOM-12179-SURFACE	-0.4146	-0.6784	-0.1507	<0.0001
00400	pH (Standard Units)	Buchanan	12352-BOTTOM-12179-SURFACE	-0.4506	-0.6703	-0.2309	<0.0001
00400	pH (Standard Units)	Buchanan	12353-BOTTOM-12179-SURFACE	-0.3408	-0.5785	-0.1031	1e-04
00400	pH (Standard Units)	Buchanan	12355-SURFACE-12179-SURFACE	-0.3129	-0.5372	-0.0886	1e-04
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12179-SURFACE	-0.5387	-0.7630	-0.3144	<0.0001
00400	pH (Standard Units)	Buchanan	12392-SURFACE-12179-SURFACE	-0.3478	-0.5721	-0.1235	<0.0001
00400	pH (Standard Units)	Buchanan	12393-SURFACE-12179-SURFACE	-0.3518	-0.6232	-0.0805	6e-04
00400	pH (Standard Units)	Buchanan	13667-SURFACE-12179-SURFACE	-0.2821	-0.5198	-0.0444	0.0038
00400	pH (Standard Units)	Buchanan	17004-SURFACE-12179-SURFACE	-0.3528	-0.5895	-0.1160	<0.0001
00400	pH (Standard Units)	Buchanan	20662-SURFACE-12179-SURFACE	-0.3788	-0.7169	-0.0408	0.0102
00400	pH (Standard Units)	Buchanan	12344-BOTTOM-12274-SURFACE	-0.5383	-0.7725	-0.3041	<0.0001
00400	pH (Standard Units)	Buchanan	12347-BOTTOM-12274-SURFACE	-0.4357	-0.6699	-0.2015	<0.0001
00400	pH (Standard Units)	Buchanan	12347-SURFACE-12274-SURFACE	0.2786	0.0444	0.5128	0.0037
00400	pH (Standard Units)	Buchanan	12349-SURFACE-12274-SURFACE	0.2890	0.0548	0.5231	0.0018
00400	pH (Standard Units)	Buchanan	12350-SURFACE-12274-SURFACE	0.3266	0.0506	0.6026	0.004
00400	pH (Standard Units)	Buchanan	12352-SURFACE-12274-SURFACE	0.2955	0.0613	0.5296	0.0012
00400	pH (Standard Units)	Buchanan	12344-SURFACE-12344-BOTTOM	0.6571	0.5010	0.8133	<0.0001
00400	pH (Standard Units)	Buchanan	12347-SURFACE-12344-BOTTOM	0.8169	0.6608	0.9730	<0.0001
00400	pH (Standard Units)	Buchanan	12349-BOTTOM-12344-BOTTOM	0.3364	0.1802	0.4925	<0.0001
00400	pH (Standard Units)	Buchanan	12349-SURFACE-12344-BOTTOM	0.8273	0.6712	0.9834	<0.0001
00400	pH (Standard Units)	Buchanan	12350-BOTTOM-12344-BOTTOM	0.4685	0.2547	0.6823	<0.0001
00400	pH (Standard Units)	Buchanan	12350-SURFACE-12344-BOTTOM	0.8649	0.6512	1.0787	<0.0001
00400	pH (Standard Units)	Buchanan	12352-BOTTOM-12344-BOTTOM	0.4325	0.2763	0.5886	<0.0001
00400	pH (Standard Units)	Buchanan	12352-SURFACE-12344-BOTTOM	0.8338	0.6776	0.9899	<0.0001
00400	pH (Standard Units)	Buchanan	12353-BOTTOM-12344-BOTTOM	0.5423	0.3617	0.7228	<0.0001
00400	pH (Standard Units)	Buchanan	12353-SURFACE-12344-BOTTOM	0.6829	0.5118	0.8539	<0.0001
00400	pH (Standard Units)	Buchanan	12355-SURFACE-12344-BOTTOM	0.5701	0.4076	0.7326	<0.0001
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12344-BOTTOM	0.3444	0.1819	0.5069	<0.0001
00400	pH (Standard Units)	Buchanan	12392-SURFACE-12344-BOTTOM	0.5353	0.3728	0.6978	<0.0001

00400	pH (Standard Units)	Buchanan	12393-SURFACE-12344-BOTTOM	0.5312	0.3082	0.7542	<0.0001
00400	pH (Standard Units)	Buchanan	13667-SURFACE-12344-BOTTOM	0.6010	0.4204	0.7815	<0.0001
00400	pH (Standard Units)	Buchanan	14232-SURFACE-12344-BOTTOM	0.6514	0.4559	0.8470	<0.0001
00400	pH (Standard Units)	Buchanan	17004-SURFACE-12344-BOTTOM	0.5303	0.3510	0.7096	<0.0001
00400	pH (Standard Units)	Buchanan	20411-SURFACE-12344-BOTTOM	0.6221	0.3406	0.9035	<0.0001
00400	pH (Standard Units)	Buchanan	20662-SURFACE-12344-BOTTOM	0.5042	0.2036	0.8049	<0.0001
00400	pH (Standard Units)	Buchanan	12347-BOTTOM-12344-SURFACE	-0.5545	-0.7107	-0.3984	<0.0001
00400	pH (Standard Units)	Buchanan	12347-SURFACE-12344-SURFACE	0.1597	0.0036	0.3159	0.0376
00400	pH (Standard Units)	Buchanan	12349-BOTTOM-12344-SURFACE	-0.3208	-0.4769	-0.1647	<0.0001
00400	pH (Standard Units)	Buchanan	12349-SURFACE-12344-SURFACE	0.1701	0.0140	0.3263	0.0157
00400	pH (Standard Units)	Buchanan	12352-BOTTOM-12344-SURFACE	-0.2247	-0.3808	-0.0686	<0.0001
00400	pH (Standard Units)	Buchanan	12352-SURFACE-12344-SURFACE	0.1766	0.0205	0.3327	0.0087
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12344-SURFACE	-0.3128	-0.4753	-0.1503	<0.0001
00400	pH (Standard Units)	Buchanan	12347-SURFACE-12347-BOTTOM	0.7143	0.5582	0.8704	<0.0001
00400	pH (Standard Units)	Buchanan	12349-BOTTOM-12347-BOTTOM	0.2338	0.0776	0.3899	<0.0001
00400	pH (Standard Units)	Buchanan	12349-SURFACE-12347-BOTTOM	0.7247	0.5686	0.8808	<0.0001
00400	pH (Standard Units)	Buchanan	12350-BOTTOM-12347-BOTTOM	0.3659	0.1521	0.5797	<0.0001
00400	pH (Standard Units)	Buchanan	12350-SURFACE-12347-BOTTOM	0.7623	0.5486	0.9761	<0.0001
00400	pH (Standard Units)	Buchanan	12352-BOTTOM-12347-BOTTOM	0.3299	0.1737	0.4860	<0.0001
00400	pH (Standard Units)	Buchanan	12352-SURFACE-12347-BOTTOM	0.7312	0.5750	0.8873	<0.0001
00400	pH (Standard Units)	Buchanan	12353-BOTTOM-12347-BOTTOM	0.4397	0.2591	0.6202	<0.0001
00400	pH (Standard Units)	Buchanan	12353-SURFACE-12347-BOTTOM	0.5803	0.4092	0.7513	<0.0001
00400	pH (Standard Units)	Buchanan	12355-SURFACE-12347-BOTTOM	0.4675	0.3050	0.6300	<0.0001
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12347-BOTTOM	0.2418	0.0793	0.4043	<0.0001
00400	pH (Standard Units)	Buchanan	12392-SURFACE-12347-BOTTOM	0.4327	0.2702	0.5952	<0.0001
00400	pH (Standard Units)	Buchanan	12393-SURFACE-12347-BOTTOM	0.4286	0.2056	0.6516	<0.0001
00400	pH (Standard Units)	Buchanan	13667-SURFACE-12347-BOTTOM	0.4984	0.3178	0.6789	<0.0001
00400	pH (Standard Units)	Buchanan	14232-SURFACE-12347-BOTTOM	0.5488	0.3533	0.7444	<0.0001
00400	pH (Standard Units)	Buchanan	17004-SURFACE-12347-BOTTOM	0.4277	0.2484	0.6070	<0.0001
00400	pH (Standard Units)	Buchanan	20411-SURFACE-12347-BOTTOM	0.5195	0.2380	0.8009	<0.0001
00400	pH (Standard Units)	Buchanan	20662-SURFACE-12347-BOTTOM	0.4016	0.1010	0.7023	3e-04
00400	pH (Standard Units)	Buchanan	12349-BOTTOM-12347-SURFACE	-0.4805	-0.6366	-0.3244	<0.0001

00400	pH (Standard Units)	Buchanan	12350-BOTTOM-12347-SURFACE	-0.3484	-0.5622	-0.1346	<0.0001
00400	pH (Standard Units)	Buchanan	12352-BOTTOM-12347-SURFACE	-0.3844	-0.5405	-0.2283	<0.0001
00400	pH (Standard Units)	Buchanan	12353-BOTTOM-12347-SURFACE	-0.2746	-0.4551	-0.0941	<0.0001
00400	pH (Standard Units)	Buchanan	12355-SURFACE-12347-SURFACE	-0.2468	-0.4092	-0.0843	<0.0001
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12347-SURFACE	-0.4725	-0.6350	-0.3100	<0.0001
00400	pH (Standard Units)	Buchanan	12392-SURFACE-12347-SURFACE	-0.2816	-0.4441	-0.1191	<0.0001
00400	pH (Standard Units)	Buchanan	12393-SURFACE-12347-SURFACE	-0.2857	-0.5086	-0.0627	8e-04
00400	pH (Standard Units)	Buchanan	13667-SURFACE-12347-SURFACE	-0.2159	-0.3964	-0.0354	0.0033
00400	pH (Standard Units)	Buchanan	17004-SURFACE-12347-SURFACE	-0.2866	-0.4659	-0.1073	<0.0001
00400	pH (Standard Units)	Buchanan	20662-SURFACE-12347-SURFACE	-0.3127	-0.6133	-0.0120	0.0304
00400	pH (Standard Units)	Buchanan	12349-SURFACE-12349-BOTTOM	0.4909	0.3348	0.6470	<0.0001
00400	pH (Standard Units)	Buchanan	12350-SURFACE-12349-BOTTOM	0.5286	0.3148	0.7423	<0.0001
00400	pH (Standard Units)	Buchanan	12352-SURFACE-12349-BOTTOM	0.4974	0.3413	0.6535	<0.0001
00400	pH (Standard Units)	Buchanan	12353-BOTTOM-12349-BOTTOM	0.2059	0.0254	0.3864	0.0076
00400	pH (Standard Units)	Buchanan	12353-SURFACE-12349-BOTTOM	0.3465	0.1755	0.5175	<0.0001
00400	pH (Standard Units)	Buchanan	12355-SURFACE-12349-BOTTOM	0.2338	0.0713	0.3963	<0.0001
00400	pH (Standard Units)	Buchanan	12392-SURFACE-12349-BOTTOM	0.1989	0.0364	0.3614	0.0021
00400	pH (Standard Units)	Buchanan	13667-SURFACE-12349-BOTTOM	0.2646	0.0841	0.4451	<0.0001
00400	pH (Standard Units)	Buchanan	14232-SURFACE-12349-BOTTOM	0.3151	0.1195	0.5107	<0.0001
00400	pH (Standard Units)	Buchanan	17004-SURFACE-12349-BOTTOM	0.1939	0.0146	0.3732	0.0176
00400	pH (Standard Units)	Buchanan	20411-SURFACE-12349-BOTTOM	0.2857	0.0043	0.5672	0.0416
00400	pH (Standard Units)	Buchanan	12350-BOTTOM-12349-SURFACE	-0.3588	-0.5725	-0.1450	<0.0001
00400	pH (Standard Units)	Buchanan	12352-BOTTOM-12349-SURFACE	-0.3948	-0.5509	-0.2387	<0.0001
00400	pH (Standard Units)	Buchanan	12353-BOTTOM-12349-SURFACE	-0.2850	-0.4655	-0.1045	<0.0001
00400	pH (Standard Units)	Buchanan	12355-SURFACE-12349-SURFACE	-0.2571	-0.4196	-0.0946	<0.0001
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12349-SURFACE	-0.4829	-0.6454	-0.3204	<0.0001
00400	pH (Standard Units)	Buchanan	12392-SURFACE-12349-SURFACE	-0.2920	-0.4545	-0.1295	<0.0001
00400	pH (Standard Units)	Buchanan	12393-SURFACE-12349-SURFACE	-0.2961	-0.5190	-0.0731	4e-04
00400	pH (Standard Units)	Buchanan	13667-SURFACE-12349-SURFACE	-0.2263	-0.4068	-0.0458	0.0013
00400	pH (Standard Units)	Buchanan	17004-SURFACE-12349-SURFACE	-0.2970	-0.4763	-0.1177	<0.0001
00400	pH (Standard Units)	Buchanan	20662-SURFACE-12349-SURFACE	-0.3231	-0.6237	-0.0224	0.0193
00400	pH (Standard Units)	Buchanan	12350-SURFACE-12350-BOTTOM	0.3964	0.1375	0.6553	<0.0001

00400	pH (Standard Units)	Buchanan	12352-SURFACE-12350-BOTTOM	0.3653	0.1515	0.5790	<0.0001
00400	pH (Standard Units)	Buchanan	12352-BOTTOM-12350-SURFACE	-0.4325	-0.6462	-0.2187	<0.0001
00400	pH (Standard Units)	Buchanan	12353-BOTTOM-12350-SURFACE	-0.3227	-0.5549	-0.0905	1e-04
00400	pH (Standard Units)	Buchanan	12355-SURFACE-12350-SURFACE	-0.2948	-0.5133	-0.0763	3e-04
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12350-SURFACE	-0.5206	-0.7390	-0.3021	<0.0001
00400	pH (Standard Units)	Buchanan	12392-SURFACE-12350-SURFACE	-0.3297	-0.5481	-0.1112	<0.0001
00400	pH (Standard Units)	Buchanan	12393-SURFACE-12350-SURFACE	-0.3337	-0.6003	-0.0672	0.0014
00400	pH (Standard Units)	Buchanan	13667-SURFACE-12350-SURFACE	-0.2640	-0.4962	-0.0318	0.0081
00400	pH (Standard Units)	Buchanan	17004-SURFACE-12350-SURFACE	-0.3347	-0.5659	-0.1034	<0.0001
00400	pH (Standard Units)	Buchanan	20662-SURFACE-12350-SURFACE	-0.3607	-0.6949	-0.0265	0.0181
00400	pH (Standard Units)	Buchanan	12352-SURFACE-12352-BOTTOM	0.4013	0.2452	0.5574	<0.0001
00400	pH (Standard Units)	Buchanan	12353-SURFACE-12352-BOTTOM	0.2504	0.0794	0.4214	<0.0001
00400	pH (Standard Units)	Buchanan	14232-SURFACE-12352-BOTTOM	0.2190	0.0234	0.4146	0.0104
00400	pH (Standard Units)	Buchanan	12353-BOTTOM-12352-SURFACE	-0.2915	-0.4720	-0.1110	<0.0001
00400	pH (Standard Units)	Buchanan	12355-SURFACE-12352-SURFACE	-0.2636	-0.4261	-0.1011	<0.0001
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12352-SURFACE	-0.4894	-0.6519	-0.3269	<0.0001
00400	pH (Standard Units)	Buchanan	12392-SURFACE-12352-SURFACE	-0.2985	-0.4610	-0.1360	<0.0001
00400	pH (Standard Units)	Buchanan	12393-SURFACE-12352-SURFACE	-0.3025	-0.5255	-0.0796	2e-04
00400	pH (Standard Units)	Buchanan	13667-SURFACE-12352-SURFACE	-0.2328	-0.4133	-0.0523	7e-04
00400	pH (Standard Units)	Buchanan	17004-SURFACE-12352-SURFACE	-0.3035	-0.4828	-0.1242	<0.0001
00400	pH (Standard Units)	Buchanan	20662-SURFACE-12352-SURFACE	-0.3295	-0.6302	-0.0289	0.0144
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12353-BOTTOM	-0.1979	-0.3840	-0.0118	0.0224
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12353-SURFACE	-0.3385	-0.5153	-0.1616	<0.0001
00400	pH (Standard Units)	Buchanan	12358-SURFACE-12355-SURFACE	-0.2258	-0.3944	-0.0571	3e-04
00400	pH (Standard Units)	Buchanan	12392-SURFACE-12358-SURFACE	0.1909	0.0223	0.3595	0.0086
00400	pH (Standard Units)	Buchanan	13667-SURFACE-12358-SURFACE	0.2566	0.0705	0.4426	1e-04
00400	pH (Standard Units)	Buchanan	14232-SURFACE-12358-SURFACE	0.3071	0.1064	0.5078	<0.0001
00400	pH (Standard Units)	Buchanan	17004-SURFACE-12358-SURFACE	0.1859	0.0010	0.3708	0.0468
00530	Total Suspended Solids (mg/L)	Buchanan	12355-SURFACE-12179-SURFACE	69.7703	9.3211	130.2195	0.0087
00530	Total Suspended Solids (mg/L)	Buchanan	12355-SURFACE-12349-BOTTOM	73.0015	38.3460	107.6569	<0.0001
00530	Total Suspended Solids (mg/L)	Buchanan	12392-SURFACE-12349-BOTTOM	49.1566	14.3512	83.9619	2e-04

00530	Total Suspended Solids (mg/L)	Buchanan	12355-SURFACE-12349-SURFACE	76.8223	42.1668	111.4777	<0.0001
00530	Total Suspended Solids (mg/L)	Buchanan	12392-SURFACE-12349-SURFACE	52.9773	18.1720	87.7827	<0.0001
00530	Total Suspended Solids (mg/L)	Buchanan	12355-SURFACE-12352-BOTTOM	63.0391	28.3837	97.6946	<0.0001
00530	Total Suspended Solids (mg/L)	Buchanan	12392-SURFACE-12352-BOTTOM	39.1942	4.3889	73.9996	0.0123
00530	Total Suspended Solids (mg/L)	Buchanan	12355-SURFACE-12352-SURFACE	71.4002	36.7447	106.0556	<0.0001
00530	Total Suspended Solids (mg/L)	Buchanan	12392-SURFACE-12352-SURFACE	47.5553	12.7499	82.3606	5e-04
00530	Total Suspended Solids (mg/L)	Buchanan	12355-SURFACE-12353-SURFACE	51.9907	14.1332	89.8482	4e-04
00530	Total Suspended Solids (mg/L)	Buchanan	12358-SURFACE-12355-SURFACE	-55.4625	-91.6803	-19.2447	<0.0001
00530	Total Suspended Solids (mg/L)	Buchanan	12393-SURFACE-12355-SURFACE	-75.4660	-125.2744	-25.6575	<0.0001
00530	Total Suspended Solids (mg/L)	Buchanan	13667-SURFACE-12355-SURFACE	-54.9635	-95.0865	-14.8405	5e-04
00530	Total Suspended Solids (mg/L)	Buchanan	17004-SURFACE-12355-SURFACE	-68.3348	-108.1927	-28.4769	<0.0001
00530	Total Suspended Solids (mg/L)	Buchanan	20662-SURFACE-12355-SURFACE	-69.5203	-133.9704	-5.0702	0.0214
00530	Total Suspended Solids (mg/L)	Buchanan	12393-SURFACE-12392-SURFACE	-51.6210	-101.5339	-1.7082	0.035
00530	Total Suspended Solids (mg/L)	Buchanan	17004-SURFACE-12392-SURFACE	-44.4898	-84.4781	-4.5016	0.0145
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12179-SURFACE	3.8340	2.6150	5.0529	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12274-SURFACE	4.3327	3.2337	5.4317	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12344-BOTTOM	4.4048	3.5779	5.2316	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12344-SURFACE	4.4498	3.6247	5.2749	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12347-BOTTOM	4.4301	3.6033	5.2570	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12347-SURFACE	4.4634	3.6383	5.2885	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12349-BOTTOM	4.4275	3.6040	5.2509	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12349-SURFACE	4.4668	3.6417	5.2919	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12353-SURFACE	4.4139	3.5307	5.2970	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12355-SURFACE	4.2817	3.4371	5.1263	<0.0001
00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12392-SURFACE	4.2100	3.3654	5.0546	<0.0001

00620	Nitrate (mg/L)	Buchanan	14232-SURFACE-12393-SURFACE	3.7827	2.7122	4.8532	<0.0001
00620	Nitrate (mg/L)	Buchanan	17004-SURFACE-14232-SURFACE	-4.3758	-5.2776	-3.4740	<0.0001
00620	Nitrate (mg/L)	Buchanan	20411-SURFACE-14232-SURFACE	-4.3531	-5.6304	-3.0758	<0.0001
00620	Nitrate (mg/L)	Buchanan	20662-SURFACE-14232-SURFACE	-4.0677	-5.4639	-2.6715	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12274-SURFACE-12179-SURFACE	-1.2670	-1.7509	-0.7832	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12344-BOTTOM-12179-SURFACE	-0.6547	-1.0224	-0.2869	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12344-SURFACE-12179-SURFACE	-1.0623	-1.4320	-0.6926	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12347-BOTTOM-12179-SURFACE	-0.6956	-1.0615	-0.3296	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12347-SURFACE-12179-SURFACE	-1.0833	-1.4505	-0.7162	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12349-BOTTOM-12179-SURFACE	-1.0256	-1.3921	-0.6590	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12349-SURFACE-12179-SURFACE	-1.0474	-1.4151	-0.6796	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12352-BOTTOM-12179-SURFACE	-0.9637	-1.3314	-0.5959	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12352-SURFACE-12179-SURFACE	-1.0037	-1.3709	-0.6366	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12353-SURFACE-12179-SURFACE	-0.8703	-1.2549	-0.4857	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12355-SURFACE-12179-SURFACE	-0.8591	-1.2324	-0.4857	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12179-SURFACE	-0.5414	-0.9190	-0.1639	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12392-SURFACE-12179-SURFACE	-1.0996	-1.4729	-0.7262	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12393-SURFACE-12179-SURFACE	-1.3465	-1.8058	-0.8872	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12179-SURFACE	-0.6408	-1.0442	-0.2374	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	17004-SURFACE-12179-SURFACE	-1.0782	-1.4732	-0.6832	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	20411-SURFACE-12179-SURFACE	-1.1581	-1.6888	-0.6274	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12344-BOTTOM-12274-SURFACE	0.6124	0.2035	1.0212	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12347-BOTTOM-12274-SURFACE	0.5715	0.1642	0.9787	1e-04

00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12274-SURFACE	0.7256	0.3079	1.1433	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12274-SURFACE	0.6262	0.1850	1.0674	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12274-SURFACE	1.2620	0.8042	1.7199	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12344-SURFACE-12344-BOTTOM	-0.4076	-0.6717	-0.1435	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12347-SURFACE-12344-BOTTOM	-0.4287	-0.6891	-0.1682	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12349-BOTTOM-12344-BOTTOM	-0.3709	-0.6305	-0.1113	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12349-SURFACE-12344-BOTTOM	-0.3927	-0.6541	-0.1313	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12352-BOTTOM-12344-BOTTOM	-0.3090	-0.5703	-0.0476	0.0048
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12352-SURFACE-12344-BOTTOM	-0.3491	-0.6095	-0.0886	4e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12392-SURFACE-12344-BOTTOM	-0.4449	-0.7140	-0.1757	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12393-SURFACE-12344-BOTTOM	-0.6918	-1.0713	-0.3123	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12344-BOTTOM	0.6497	0.3169	0.9824	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	17004-SURFACE-12344-BOTTOM	-0.4235	-0.7220	-0.1250	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	20411-SURFACE-12344-BOTTOM	-0.5034	-0.9668	-0.0401	0.0176
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12347-BOTTOM-12344-SURFACE	0.3667	0.1051	0.6283	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12344-SURFACE	0.5208	0.2433	0.7984	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12344-SURFACE	0.4215	0.1096	0.7333	3e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12344-SURFACE	1.0573	0.7223	1.3922	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12347-SURFACE-12347-BOTTOM	-0.3878	-0.6457	-0.1298	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12349-BOTTOM-12347-BOTTOM	-0.3300	-0.5871	-0.0730	0.001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12349-SURFACE-12347-BOTTOM	-0.3518	-0.6106	-0.0930	3e-04

00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12352-BOTTOM-12347-BOTTOM	-0.2681	-0.5269	-0.0093	0.0329
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12352-SURFACE-12347-BOTTOM	-0.3082	-0.5661	-0.0502	0.004
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12392-SURFACE-12347-BOTTOM	-0.4040	-0.6707	-0.1373	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12393-SURFACE-12347-BOTTOM	-0.6509	-1.0287	-0.2731	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12347-BOTTOM	0.6906	0.3598	1.0213	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	17004-SURFACE-12347-BOTTOM	-0.3826	-0.6789	-0.0864	9e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	20411-SURFACE-12347-BOTTOM	-0.4625	-0.9244	-0.0006	0.0492
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12347-SURFACE	0.5419	0.2678	0.8160	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12347-SURFACE	0.4425	0.1337	0.7513	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12347-SURFACE	1.0783	0.7462	1.4104	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12349-BOTTOM	0.4841	0.2108	0.7574	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12349-BOTTOM	0.3848	0.0767	0.6928	0.0018
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12349-BOTTOM	1.0206	0.6892	1.3520	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12349-SURFACE	0.5059	0.2310	0.7809	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12349-SURFACE	0.4066	0.0970	0.7161	6e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12349-SURFACE	1.0424	0.7096	1.3751	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12352-BOTTOM	0.4222	0.1473	0.6971	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12393-SURFACE-12352-BOTTOM	-0.3828	-0.7624	-0.0033	0.0453
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12352-BOTTOM	0.3228	0.0133	0.6324	0.0302
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12352-BOTTOM	0.9587	0.6259	1.2914	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12352-SURFACE	0.4623	0.1882	0.7364	<0.0001

00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12352-SURFACE	0.3629	0.0541	0.6717	0.0053
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12352-SURFACE	0.9987	0.6666	1.3308	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12353-SURFACE	0.3289	0.0318	0.6259	0.0134
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12393-SURFACE-12353-SURFACE	-0.4762	-0.8720	-0.0803	0.0035
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12353-SURFACE	0.8653	0.5140	1.2166	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12358-SURFACE-12355-SURFACE	0.3176	0.0353	0.6000	0.0106
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12393-SURFACE-12355-SURFACE	-0.4874	-0.8723	-0.1024	0.0014
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12355-SURFACE	0.8541	0.5151	1.1930	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12392-SURFACE-12358-SURFACE	-0.5581	-0.8405	-0.2757	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	12393-SURFACE-12358-SURFACE	-0.8050	-1.1940	-0.4160	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12358-SURFACE	0.5364	0.1929	0.8800	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	17004-SURFACE-12358-SURFACE	-0.5367	-0.8472	-0.2263	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	20411-SURFACE-12358-SURFACE	-0.6167	-1.0878	-0.1455	7e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12392-SURFACE	0.4587	0.1426	0.7749	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12392-SURFACE	1.0945	0.7556	1.4335	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	13667-SURFACE-12393-SURFACE	0.7057	0.2915	1.1198	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-12393-SURFACE	1.3415	0.9097	1.7733	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	14232-SURFACE-13667-SURFACE	0.6358	0.2640	1.0076	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	17004-SURFACE-13667-SURFACE	-0.4374	-0.7788	-0.0959	0.0011
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	20411-SURFACE-13667-SURFACE	-0.5173	-1.0094	-0.0252	0.0274
00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	17004-SURFACE-14232-SURFACE	-1.0732	-1.4359	-0.7105	<0.0001

00625	Total Kjeldahl Nitrogen (mg/L)	Buchanan	20411-SURFACE-14232-SURFACE	-1.1531	-1.6602	-0.6460	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12179-SURFACE	1.8002	1.5771	2.0233	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12344-BOTTOM	1.7645	1.5959	1.9331	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12344-SURFACE	1.8349	1.6666	2.0031	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12347-BOTTOM	1.7843	1.6161	1.9526	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12347-SURFACE	1.8322	1.6640	2.0005	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12349-BOTTOM	1.8220	1.6537	1.9902	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12349-SURFACE	1.8325	1.6643	2.0007	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12352-BOTTOM	1.8055	1.6369	1.9741	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12352-SURFACE	1.8205	1.6519	1.9891	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12353-SURFACE	1.7748	1.5949	1.9546	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12355-SURFACE	1.7354	1.5628	1.9079	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12358-SURFACE	1.7892	1.6157	1.9627	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-12392-SURFACE	1.7698	1.5972	1.9424	<0.0001
00665	Total Phosphorus (mg/L)	Buchanan	14232-SURFACE-13667-SURFACE	1.8079	1.6166	1.9992	<0.0001
00940	Chloride (mg/L)	Buchanan	12274-SURFACE-12179-SURFACE	-658.4848	-748.1547	-568.8150	<0.0001
00940	Chloride (mg/L)	Buchanan	12344-BOTTOM-12179-SURFACE	-619.4798	-690.6130	-548.3466	<0.0001
00940	Chloride (mg/L)	Buchanan	12344-SURFACE-12179-SURFACE	-619.4381	-690.4603	-548.4159	<0.0001
00940	Chloride (mg/L)	Buchanan	12347-BOTTOM-12179-SURFACE	-619.8420	-690.8642	-548.8198	<0.0001
00940	Chloride (mg/L)	Buchanan	12347-SURFACE-12179-SURFACE	-619.2563	-690.2785	-548.2340	<0.0001
00940	Chloride (mg/L)	Buchanan	12349-BOTTOM-12179-SURFACE	-620.2861	-691.3084	-549.2639	<0.0001
00940	Chloride (mg/L)	Buchanan	12349-SURFACE-12179-SURFACE	-619.5498	-690.5720	-548.5275	<0.0001
00940	Chloride (mg/L)	Buchanan	12352-BOTTOM-12179-SURFACE	-620.0823	-691.1045	-549.0600	<0.0001
00940	Chloride (mg/L)	Buchanan	12352-SURFACE-12179-SURFACE	-620.1550	-691.1772	-549.1327	<0.0001
00940	Chloride (mg/L)	Buchanan	12353-SURFACE-12179-SURFACE	-613.1082	-687.8539	-538.3624	<0.0001

00940	Chloride (mg/L)	Buchanan	12355-SURFACE-12179-SURFACE	-625.2121	-697.6271	-552.7972	<0.0001
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12179-SURFACE	-423.6451	-496.2085	-351.0818	<0.0001
00940	Chloride (mg/L)	Buchanan	12392-SURFACE-12179-SURFACE	-648.7652	-721.1801	-576.3502	<0.0001
00940	Chloride (mg/L)	Buchanan	12393-SURFACE-12179-SURFACE	-636.0580	-724.7050	-547.4110	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12179-SURFACE	-410.9222	-487.7109	-334.1335	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12179-SURFACE	-543.4417	-623.4994	-463.3839	<0.0001
00940	Chloride (mg/L)	Buchanan	17004-SURFACE-12179-SURFACE	-643.2326	-719.4509	-567.0143	<0.0001
00940	Chloride (mg/L)	Buchanan	20411-SURFACE-12179-SURFACE	-653.5667	-755.7328	-551.4006	<0.0001
00940	Chloride (mg/L)	Buchanan	20662-SURFACE-12179-SURFACE	-657.0000	-764.4087	-549.5913	<0.0001
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12274-SURFACE	234.8397	159.9062	309.7733	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12274-SURFACE	247.5626	168.5304	326.5949	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12274-SURFACE	115.0432	32.8310	197.2553	1e-04
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12344-BOTTOM	195.8347	144.5095	247.1599	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12344-BOTTOM	208.5576	151.4144	265.7008	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12344-BOTTOM	76.0382	14.5721	137.5043	0.002
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12344-SURFACE	195.7930	144.6216	246.9643	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12344-SURFACE	208.5159	151.5109	265.5209	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12344-SURFACE	75.9964	14.6588	137.3341	0.002
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12347-BOTTOM	196.1969	145.0255	247.3682	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12347-BOTTOM	208.9198	151.9148	265.9248	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12347-BOTTOM	76.4003	15.0627	137.7380	0.0018
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12347-SURFACE	195.6111	144.4398	246.7825	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12347-SURFACE	208.3341	151.3291	265.3391	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12347-SURFACE	75.8146	14.4769	137.1523	0.0021
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12349-BOTTOM	196.6410	145.4697	247.8124	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12349-BOTTOM	209.3639	152.3589	266.3689	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12349-BOTTOM	76.8445	15.5068	138.1821	0.0016
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12349-SURFACE	195.9047	144.7333	247.0760	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12349-SURFACE	208.6276	151.6226	265.6326	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12349-SURFACE	76.1081	14.7704	137.4458	0.0019
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12352-BOTTOM	196.4371	145.2658	247.6085	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12352-BOTTOM	209.1600	152.1550	266.1650	<0.0001

00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12352-BOTTOM	76.6406	15.3029	137.9783	0.0017
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12352-SURFACE	196.5099	145.3385	247.6812	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12352-SURFACE	209.2328	152.2278	266.2378	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12352-SURFACE	76.7133	15.3756	138.0510	0.0016
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12353-SURFACE	189.4630	133.2378	245.6883	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12353-SURFACE	202.1860	140.6040	263.7679	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12353-SURFACE	69.6665	4.0534	135.2796	0.0238
00940	Chloride (mg/L)	Buchanan	12358-SURFACE-12355-SURFACE	201.5670	148.4796	254.6544	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12355-SURFACE	214.2899	155.5588	273.0210	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12355-SURFACE	81.7705	18.8254	144.7155	8e-04
00940	Chloride (mg/L)	Buchanan	12392-SURFACE-12358-SURFACE	-225.1200	-278.2074	-172.0326	<0.0001
00940	Chloride (mg/L)	Buchanan	12393-SURFACE-12358-SURFACE	-212.4128	-286.1193	-138.7064	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12358-SURFACE	-119.7965	-182.9122	-56.6808	<0.0001
00940	Chloride (mg/L)	Buchanan	17004-SURFACE-12358-SURFACE	-219.5875	-277.7560	-161.4190	<0.0001
00940	Chloride (mg/L)	Buchanan	20411-SURFACE-12358-SURFACE	-229.9215	-319.4328	-140.4103	<0.0001
00940	Chloride (mg/L)	Buchanan	20662-SURFACE-12358-SURFACE	-233.3549	-328.8064	-137.9034	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12392-SURFACE	237.8429	179.1119	296.5740	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12392-SURFACE	105.3235	42.3784	168.2685	<0.0001
00940	Chloride (mg/L)	Buchanan	13667-SURFACE-12393-SURFACE	225.1357	147.2660	303.0055	<0.0001
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-12393-SURFACE	92.6163	11.5210	173.7116	0.0082
00940	Chloride (mg/L)	Buchanan	14232-SURFACE-13667-SURFACE	-132.5194	-200.4507	-64.5882	<0.0001
00940	Chloride (mg/L)	Buchanan	17004-SURFACE-13667-SURFACE	-232.3104	-295.6716	-168.9492	<0.0001
00940	Chloride (mg/L)	Buchanan	20411-SURFACE-13667-SURFACE	-242.6444	-335.6139	-149.6750	<0.0001
00940	Chloride (mg/L)	Buchanan	20662-SURFACE-13667-SURFACE	-246.0778	-344.7796	-147.3759	<0.0001
00940	Chloride (mg/L)	Buchanan	17004-SURFACE-14232-SURFACE	-99.7910	-167.0768	-32.5051	<0.0001
00940	Chloride (mg/L)	Buchanan	20411-SURFACE-14232-SURFACE	-110.1250	-205.8123	-14.4377	0.0072
00940	Chloride (mg/L)	Buchanan	20662-SURFACE-14232-SURFACE	-113.5583	-214.8243	-12.2924	0.0109
00945	Sulfate (mg/L)	Buchanan	12274-SURFACE-12179-SURFACE	-153.3492	-191.2099	-115.4885	<0.0001
00945	Sulfate (mg/L)	Buchanan	12344-BOTTOM-12179-SURFACE	-137.8294	-167.8635	-107.7953	<0.0001
00945	Sulfate (mg/L)	Buchanan	12344-SURFACE-12179-SURFACE	-134.5979	-164.5852	-104.6107	<0.0001
00945	Sulfate (mg/L)	Buchanan	12347-BOTTOM-12179-SURFACE	-137.9577	-167.9449	-107.9705	<0.0001
00945	Sulfate (mg/L)	Buchanan	12347-SURFACE-12179-SURFACE	-134.6979	-164.6852	-104.7107	<0.0001

00945	Sulfate (mg/L)	Buchanan	12349-BOTTOM-12179-SURFACE	-135.2655	-165.2527	-105.2782	<0.0001
00945	Sulfate (mg/L)	Buchanan	12349-SURFACE-12179-SURFACE	-134.7291	-164.7163	-104.7419	<0.0001
00945	Sulfate (mg/L)	Buchanan	12352-BOTTOM-12179-SURFACE	-135.3512	-165.3384	-105.3640	<0.0001
00945	Sulfate (mg/L)	Buchanan	12352-SURFACE-12179-SURFACE	-135.3083	-165.2956	-105.3211	<0.0001
00945	Sulfate (mg/L)	Buchanan	12353-SURFACE-12179-SURFACE	-137.8472	-169.3154	-106.3791	<0.0001
00945	Sulfate (mg/L)	Buchanan	12355-SURFACE-12179-SURFACE	-139.3432	-169.9185	-108.7679	<0.0001
00945	Sulfate (mg/L)	Buchanan	12392-SURFACE-12179-SURFACE	-146.5492	-177.1245	-115.9740	<0.0001
00945	Sulfate (mg/L)	Buchanan	12393-SURFACE-12179-SURFACE	-145.6431	-183.0719	-108.2143	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12179-SURFACE	61.9606	29.5386	94.3825	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12179-SURFACE	-97.9806	-131.7828	-64.1783	<0.0001
00945	Sulfate (mg/L)	Buchanan	17004-SURFACE-12179-SURFACE	-145.8888	-178.1879	-113.5896	<0.0001
00945	Sulfate (mg/L)	Buchanan	20662-SURFACE-12179-SURFACE	-148.7917	-194.1421	-103.4412	<0.0001
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12274-SURFACE	128.4318	96.8538	160.0098	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12274-SURFACE	215.3098	181.9405	248.6791	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12274-SURFACE	55.3687	20.6568	90.0806	<0.0001
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12344-BOTTOM	112.9120	91.3299	134.4940	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12344-BOTTOM	199.7899	175.6628	223.9171	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12344-BOTTOM	39.8488	13.8964	65.8012	<0.0001
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12344-SURFACE	109.6805	88.1637	131.1973	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12344-SURFACE	196.5585	172.4897	220.6273	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12344-SURFACE	36.6174	10.7192	62.5156	1e-04
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12347-BOTTOM	113.0403	91.5235	134.5570	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12347-BOTTOM	199.9182	175.8494	223.9871	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12347-BOTTOM	39.9771	14.0789	65.8753	<0.0001
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12347-SURFACE	109.7805	88.2637	131.2973	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12347-SURFACE	196.6585	172.5897	220.7273	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12347-SURFACE	36.7174	10.8192	62.6156	1e-04
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12349-BOTTOM	110.3481	88.8313	131.8648	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12349-BOTTOM	197.2260	173.1572	221.2949	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12349-BOTTOM	37.2849	11.3867	63.1831	1e-04
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12349-SURFACE	109.8117	88.2949	131.3285	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12349-SURFACE	196.6897	172.6208	220.7585	<0.0001

00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12349-SURFACE	36.7486	10.8504	62.6467	1e-04
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12352-BOTTOM	110.4338	88.9170	131.9506	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12352-BOTTOM	197.3117	173.2429	221.3806	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12352-BOTTOM	37.3706	11.4725	63.2688	1e-04
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12352-SURFACE	110.3909	88.8741	131.9077	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12352-SURFACE	197.2689	173.2001	221.3377	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12352-SURFACE	37.3278	11.4296	63.2260	1e-04
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12353-SURFACE	112.9298	89.3929	136.4667	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12353-SURFACE	199.8078	173.9172	225.6983	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12353-SURFACE	39.8667	12.2673	67.4661	1e-04
00945	Sulfate (mg/L)	Buchanan	12358-SURFACE-12355-SURFACE	114.4258	92.0967	136.7548	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12355-SURFACE	201.3037	176.5061	226.1014	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12355-SURFACE	41.3626	14.7858	67.9395	<0.0001
00945	Sulfate (mg/L)	Buchanan	12392-SURFACE-12358-SURFACE	-121.6318	-143.9608	-99.3028	<0.0001
00945	Sulfate (mg/L)	Buchanan	12393-SURFACE-12358-SURFACE	-120.7257	-151.7846	-89.6668	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12358-SURFACE	86.8780	62.0804	111.6756	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12358-SURFACE	-73.0631	-99.6400	-46.4863	<0.0001
00945	Sulfate (mg/L)	Buchanan	17004-SURFACE-12358-SURFACE	-120.9713	-145.6082	-96.3345	<0.0001
00945	Sulfate (mg/L)	Buchanan	20662-SURFACE-12358-SURFACE	-123.8742	-164.1285	-83.6200	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12392-SURFACE	208.5098	183.7122	233.3074	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12392-SURFACE	48.5687	21.9918	75.1455	<0.0001
00945	Sulfate (mg/L)	Buchanan	13667-SURFACE-12393-SURFACE	207.6037	174.7252	240.4821	<0.0001
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-12393-SURFACE	47.6626	13.4223	81.9029	2e-04
00945	Sulfate (mg/L)	Buchanan	14232-SURFACE-13667-SURFACE	-159.9411	-188.6233	-131.2590	<0.0001
00945	Sulfate (mg/L)	Buchanan	17004-SURFACE-13667-SURFACE	-207.8493	-234.7437	-180.9549	<0.0001
00945	Sulfate (mg/L)	Buchanan	20662-SURFACE-13667-SURFACE	-210.7522	-252.4264	-169.0780	<0.0001
00945	Sulfate (mg/L)	Buchanan	17004-SURFACE-14232-SURFACE	-47.9082	-76.4515	-19.3650	<0.0001
00945	Sulfate (mg/L)	Buchanan	20662-SURFACE-14232-SURFACE	-50.8111	-93.5679	-8.0543	0.0044
31699	E. coli (MPN/100mL)	Buchanan	12392-SURFACE-12179-SURFACE	499.0590	116.7923	881.3258	0.0012
31699	E. coli (MPN/100mL)	Buchanan	12355-SURFACE-12349-SURFACE	290.8979	43.8557	537.9402	0.0066
31699	E. coli (MPN/100mL)	Buchanan	12392-SURFACE-12349-SURFACE	515.3222	268.2799	762.3644	<0.0001
31699	E. coli (MPN/100mL)	Buchanan	12392-SURFACE-12353-SURFACE	470.1126	199.2997	740.9256	<0.0001

31699	E. coli (MPN/100mL)	Buchanan	12392-SURFACE-12358-SURFACE	319.7727	64.1798	575.3657	0.0025
31699	E. coli (MPN/100mL)	Buchanan	12393-SURFACE-12392-SURFACE	-465.3485	-815.3335	-115.3634	8e-04
31699	E. coli (MPN/100mL)	Buchanan	13667-SURFACE-12392-SURFACE	-478.5360	-794.8161	-162.2559	<0.0001
31699	E. coli (MPN/100mL)	Buchanan	14232-SURFACE-12392-SURFACE	-399.2897	-709.2416	-89.3377	0.0015
31699	E. coli (MPN/100mL)	Buchanan	17004-SURFACE-12392-SURFACE	-285.5932	-565.8293	-5.3570	0.0411
31699	E. coli (MPN/100mL)	Buchanan	20411-SURFACE-12392-SURFACE	-485.4913	-917.5223	-53.4604	0.0127
31699	E. coli (MPN/100mL)	Buchanan	20662-SURFACE-12392-SURFACE	-464.2652	-925.0419	-3.4884	0.0463
70953	Chlorophyll-a (µg/L)	Buchanan	12274-SURFACE-12179-SURFACE	-27.8424	-44.1801	-11.5048	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	12344-SURFACE-12179-SURFACE	-21.5949	-34.3873	-8.8024	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	12347-SURFACE-12179-SURFACE	-20.9299	-33.7224	-8.1375	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	12349-SURFACE-12179-SURFACE	-18.9550	-31.7474	-6.1625	1e-04
70953	Chlorophyll-a (µg/L)	Buchanan	12352-SURFACE-12179-SURFACE	-15.5780	-28.3704	-2.7855	0.0039
70953	Chlorophyll-a (µg/L)	Buchanan	12355-SURFACE-12179-SURFACE	-17.0753	-30.1341	-4.0166	0.0011
70953	Chlorophyll-a (µg/L)	Buchanan	12358-SURFACE-12179-SURFACE	-13.4031	-26.4618	-0.3443	0.038
70953	Chlorophyll-a (µg/L)	Buchanan	12392-SURFACE-12179-SURFACE	-23.5487	-36.6074	-10.4899	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12179-SURFACE	15.3480	0.7461	29.9500	0.0291
70953	Chlorophyll-a (µg/L)	Buchanan	20662-SURFACE-12179-SURFACE	-26.2693	-46.5547	-5.9838	0.0013
70953	Chlorophyll-a (µg/L)	Buchanan	12353-SURFACE-12274-SURFACE	21.2237	6.9589	35.4885	1e-04
70953	Chlorophyll-a (µg/L)	Buchanan	12358-SURFACE-12274-SURFACE	14.4394	0.5551	28.3237	0.0329
70953	Chlorophyll-a (µg/L)	Buchanan	13667-SURFACE-12274-SURFACE	15.0319	0.0619	30.0019	0.0479
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12274-SURFACE	43.1905	27.8458	58.5352	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	12353-SURFACE-12344-SURFACE	14.9761	4.9655	24.9867	1e-04
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12344-SURFACE	36.9429	25.4456	48.4402	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	12353-SURFACE-12347-SURFACE	14.3112	4.3006	24.3218	2e-04
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12347-SURFACE	36.2779	24.7806	47.7753	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	12353-SURFACE-12349-SURFACE	12.3362	2.3256	22.3468	0.0032
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12349-SURFACE	34.3030	22.8057	45.8003	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12352-SURFACE	30.9260	19.4287	42.4233	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	12355-SURFACE-12353-SURFACE	-10.4566	-20.8053	-0.1078	0.0449
70953	Chlorophyll-a (µg/L)	Buchanan	12392-SURFACE-12353-SURFACE	-16.9299	-27.2787	-6.5811	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12353-SURFACE	21.9668	9.7282	34.2054	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	20662-SURFACE-12353-SURFACE	-19.6505	-38.3070	-0.9940	0.0284

70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12355-SURFACE	32.4234	20.6304	44.2163	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	12392-SURFACE-12358-SURFACE	-10.1456	-19.9633	-0.3279	0.0353
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12358-SURFACE	28.7511	16.9582	40.5440	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-12392-SURFACE	38.8967	27.1038	50.6896	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	14232-SURFACE-13667-SURFACE	28.1586	15.1049	41.2123	<0.0001
70953	Chlorophyll-a (µg/L)	Buchanan	20662-SURFACE-14232-SURFACE	-41.6173	-61.1119	-22.1227	<0.0001
00610	Ammonia (mg/L)	Buchanan	12344-SURFACE-12344-BOTTOM	-0.4407	-0.6142	-0.2671	<0.0001
00610	Ammonia (mg/L)	Buchanan	12347-SURFACE-12344-BOTTOM	-0.4450	-0.6185	-0.2714	<0.0001
00610	Ammonia (mg/L)	Buchanan	12352-BOTTOM-12344-BOTTOM	-0.4148	-0.5884	-0.2413	<0.0001
00610	Ammonia (mg/L)	Buchanan	12352-SURFACE-12344-BOTTOM	-0.4305	-0.6041	-0.2570	<0.0001
00610	Ammonia (mg/L)	Buchanan	17004-SURFACE-12344-BOTTOM	-0.4283	-0.6288	-0.2278	<0.0001
00610	Ammonia (mg/L)	Buchanan	12347-BOTTOM-12344-SURFACE	0.3943	0.2213	0.5672	<0.0001
00610	Ammonia (mg/L)	Buchanan	12347-SURFACE-12347-BOTTOM	-0.3986	-0.5715	-0.2256	<0.0001
00610	Ammonia (mg/L)	Buchanan	12352-BOTTOM-12347-BOTTOM	-0.3684	-0.5414	-0.1955	<0.0001
00610	Ammonia (mg/L)	Buchanan	12352-SURFACE-12347-BOTTOM	-0.3842	-0.5571	-0.2112	<0.0001
00610	Ammonia (mg/L)	Buchanan	17004-SURFACE-12347-BOTTOM	-0.3819	-0.5819	-0.1819	<0.0001