

Technical Memorandum BCWA



Date: February 8, 2017
To: Bear Creek Watershed Association
From: Russell N. Clayshulte, Manager
Re: BCWA TM 2016.08 EGL Summary

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Figure 1 **Staging Area and Dredge Barge**



Figure 2 **Dredge in Operation**



Figure 3 **Dredged Sediments**



Figure 4 Silt Screen

Table 1 EGL Data Summary

Evergreen Lake, Segment 1d

Parameter (ug/l)	4/14/2016	5/26/2016	6/15/2016	7/13/2016	8/10/2016	9/14/2016	10/19/2016	Average
Total Nitrogen	308	322	522	341	345	298	278	345
Phosphorus, total	19	27	27	21	28	29	70	32
Residue, Non-Filterable (TSS)	4.0	6.8	6.8	5.2	4.5	7.2	3.6	5
Chlorophyll a		4.1	2.1	2.1	2.9	19.8	8.3	7
Chlorophyll a		4.1	2.1	2.1	4.7			3
Chlorophyll a Average		4.1	2.1	2.1	3.8	19.8	8.3	6.7
Total Nitrogen	331	265	371.0	295	297	253	232	292.0
Phosphorus, total	22.0	26	27.0	21	29	23	67	30.7
Residue, Non-Filterable (TSS)	4.6		8.4					6.5
								Total
Total Nitrogen, Pounds/month	39.8	86.4	137.3	46.9	23.9	13.6	10.6	358
Total Phosphorus, Pounds/month	2.5	7.2	7.1	2.9	1.9	1.3	2.7	26
TSS, pounds/month	517.4	1823.9	1788.7	715.1	311.2	329.4	137.2	5623

Parameter Summary	4/14/2016	5/26/2016	6/15/2016	7/13/2016	8/10/2016	9/14/2016	10/19/2016
Dissolved Oxygen 1/2-2m		7.29	8.31	8.00	7.42	7.74	9.74
Temperature (C) 1/2-2m		9.70	13.33	17.30	17.95	14.90	9.93
pH water column		8.80	8.92	8.28	8.33	7.87	7.99
Specific Conductance (us/m)		74.8	62.2	61.6	67.7	73.29	77.43
Bear Creek Keys (cfs) Monthly Avg	47.5	98.5	96.6	50.5	25.4	16.8	14.0
Bear Creek EGL (cfs) daily		109	105	48	26	15	14

Table 2 EGL Field Data Summary

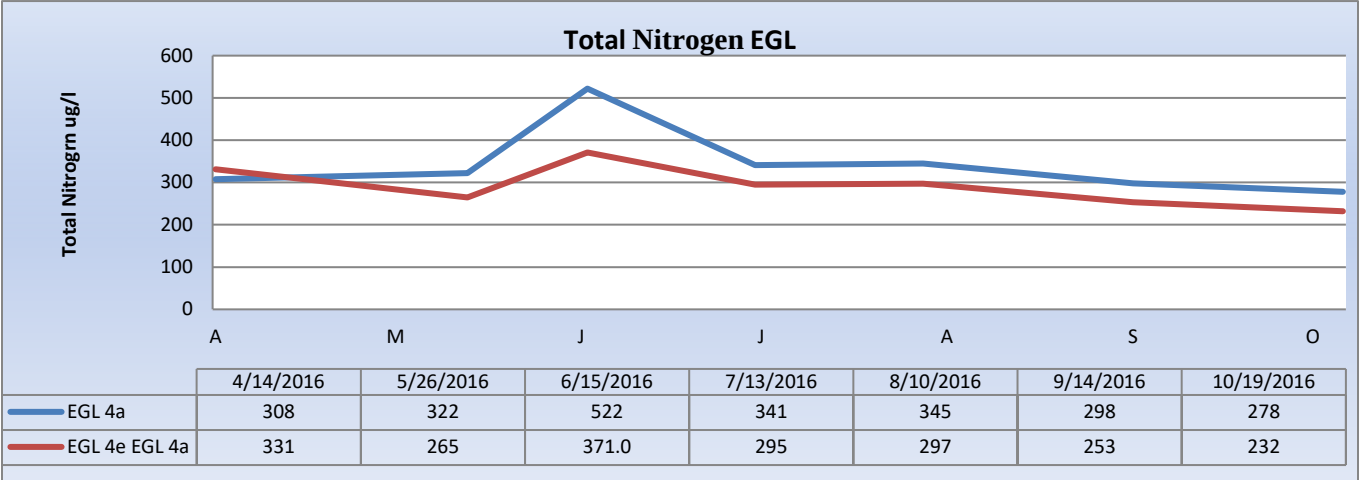


Figure 5 EGL Total Nitrogen

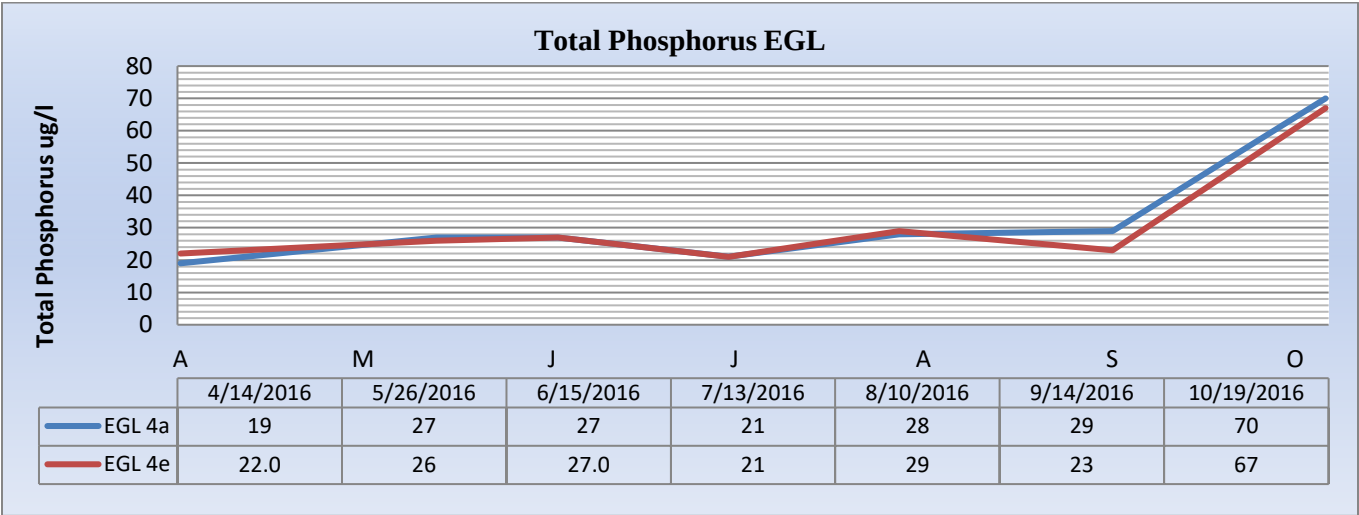


Figure 6 EGL Total Phosphorus Loading

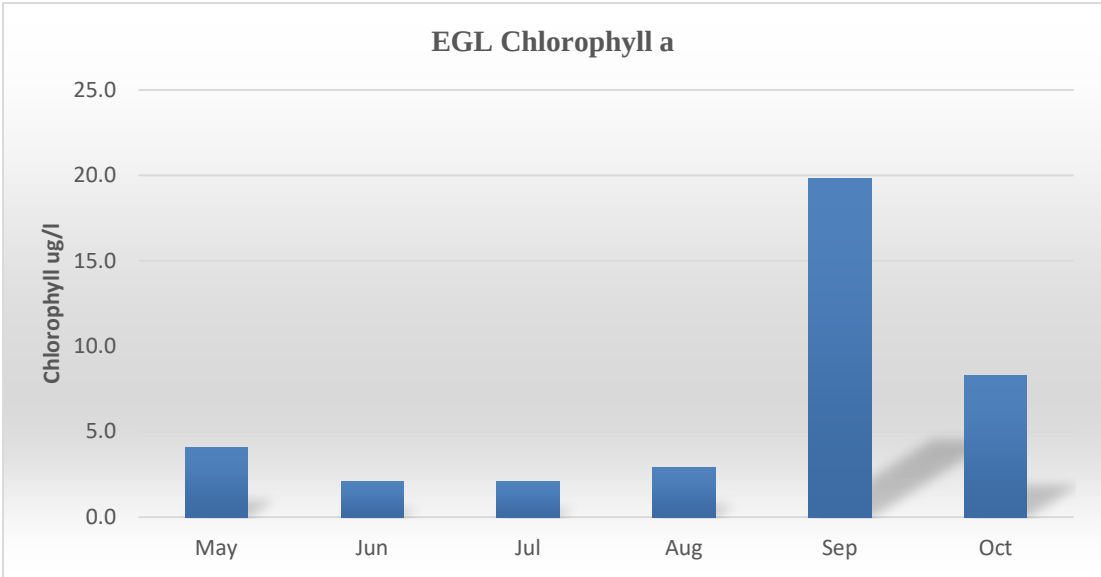


Figure 7 Chlorophyll Trend

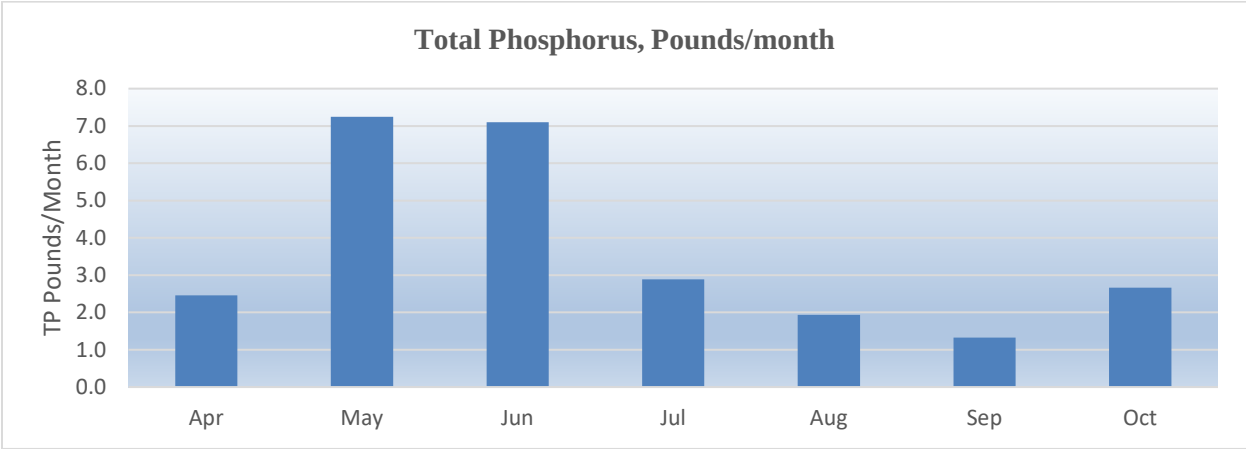


Figure 8 **EGL Total Phosphorus**

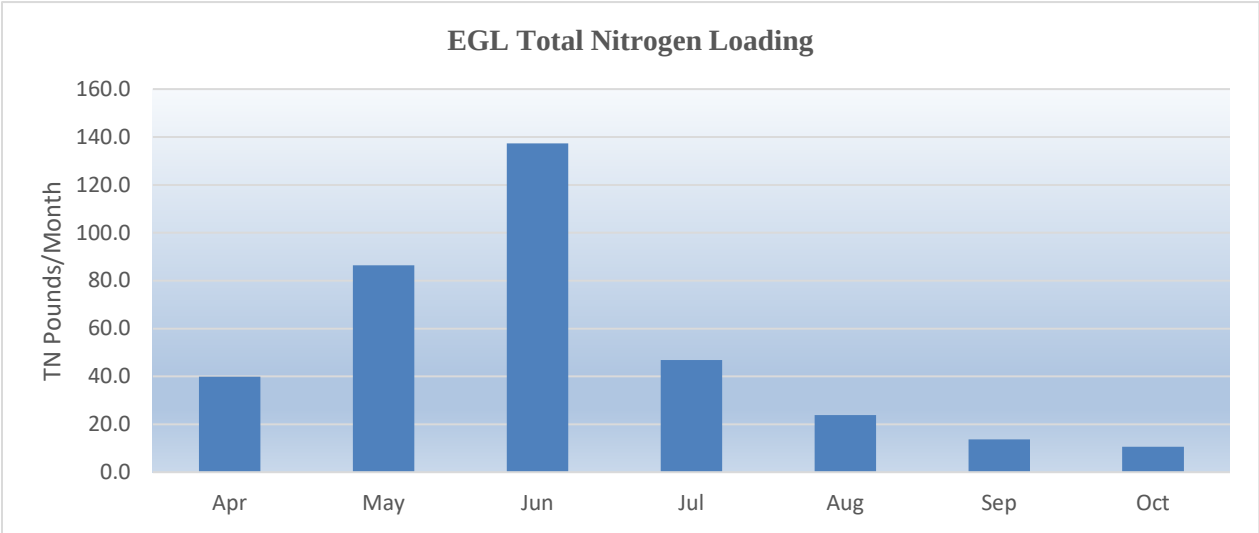


Figure 9 **Total Nitrogen Seasonal Load**

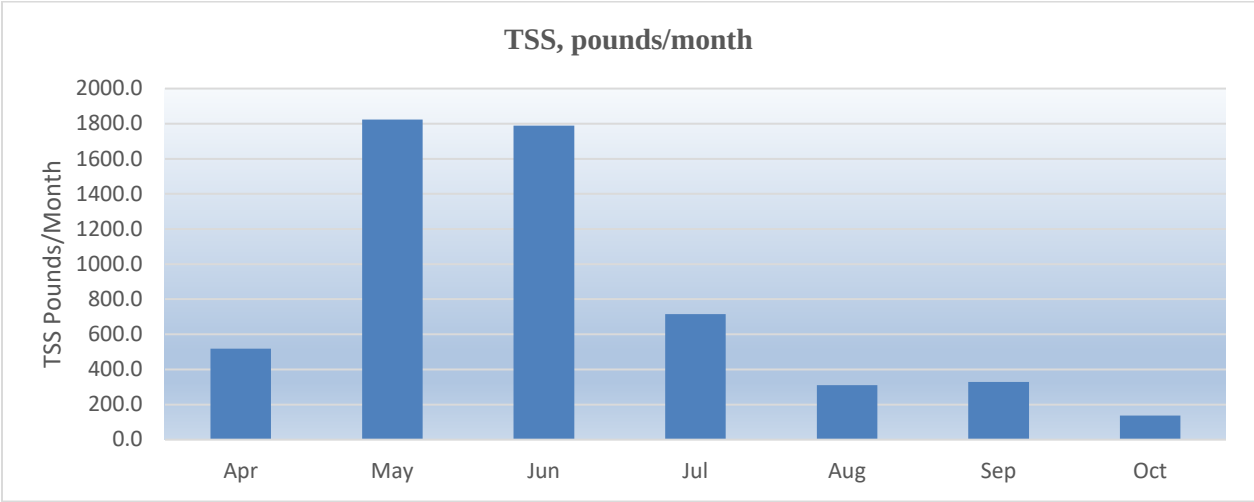


Figure 10 **TSS Seasonal Load**