

Figure S1. Correlation between depth measured using YSI Sonde and depth measured using the Sontek Sonde

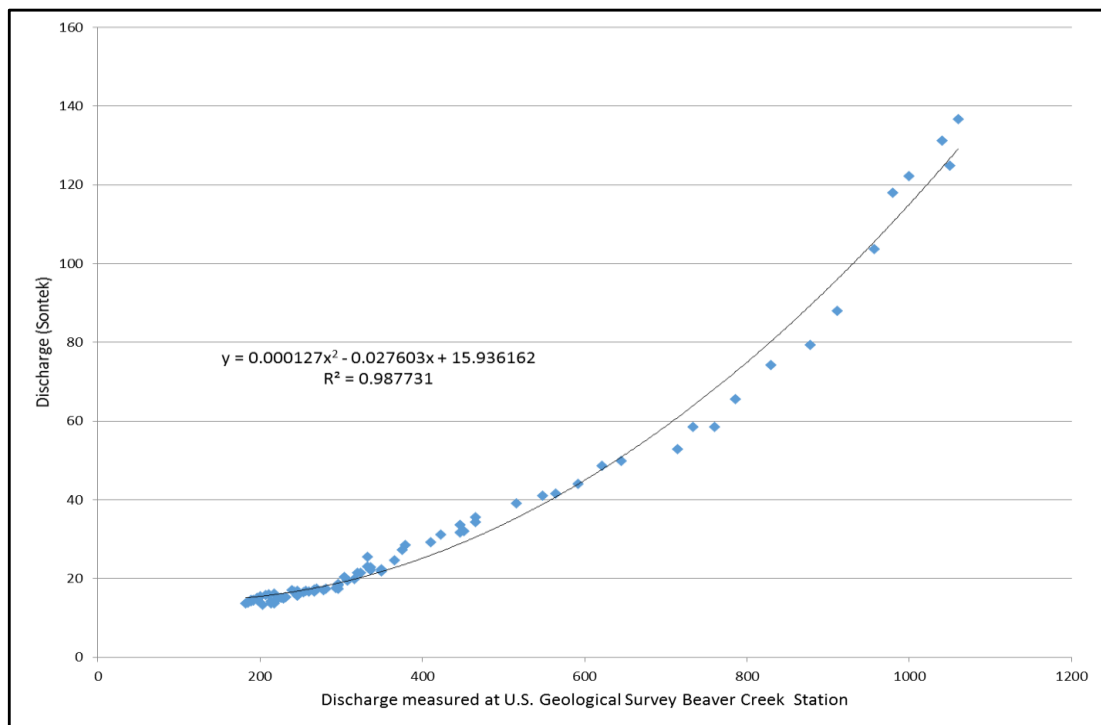


Figure S2. Correlation between discharge measured by USGS and calculated using Sontek Sonde

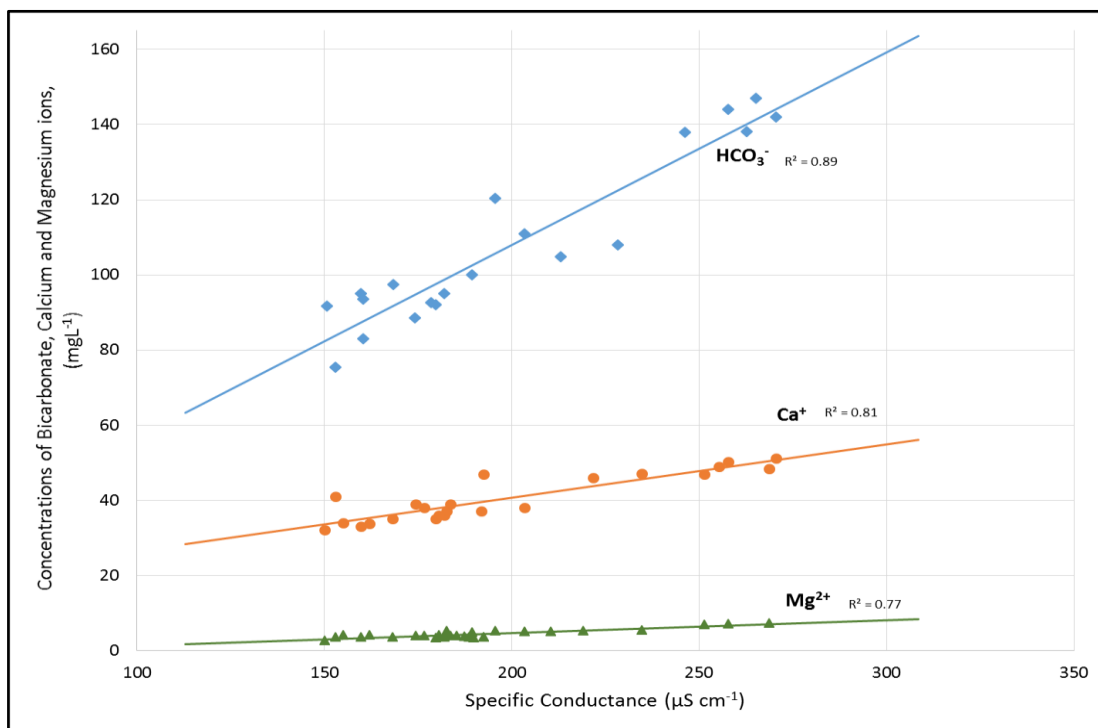


Figure S3. Correlation between concentrations of major cations and specific conductance.

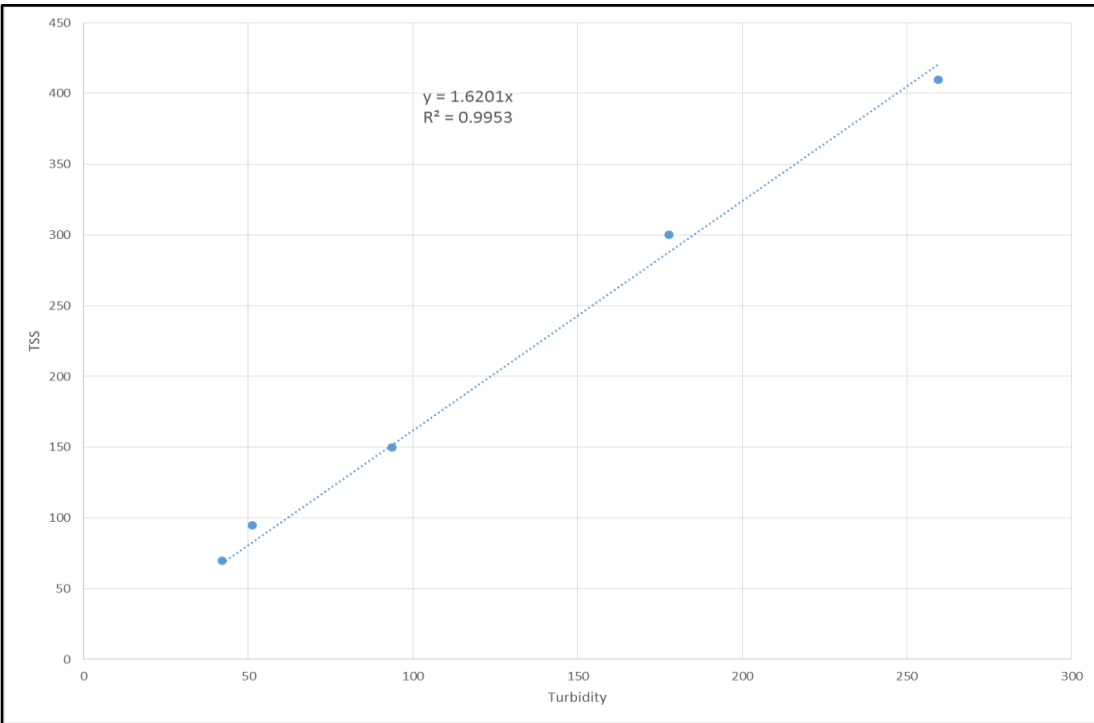


Figure S4. Correlation between TSS and Turbidity

Table S1. Regression statistics for  $\text{Ca}^{2+}$  and SpC,  $\text{Mg}^{2+}$  and SpC, and  $\text{HCO}_3^{-1}$  and SpC

	Standard	
<b>Ca and SpC</b>	Error	
R	0.89	
R Square	0.81	
Intercept	12	3.1
Slope	0.14	0.015
<b>Mg and SpC</b>		
R	0.88	
R Square	0.77	
Intercept	93	11
Slope	23	2.4
<b>HCO<sub>3</sub> and Spc</b>		
R	0.94	
R Square	0.89	
Intercept	13	16
Slope	1.7	0.14