

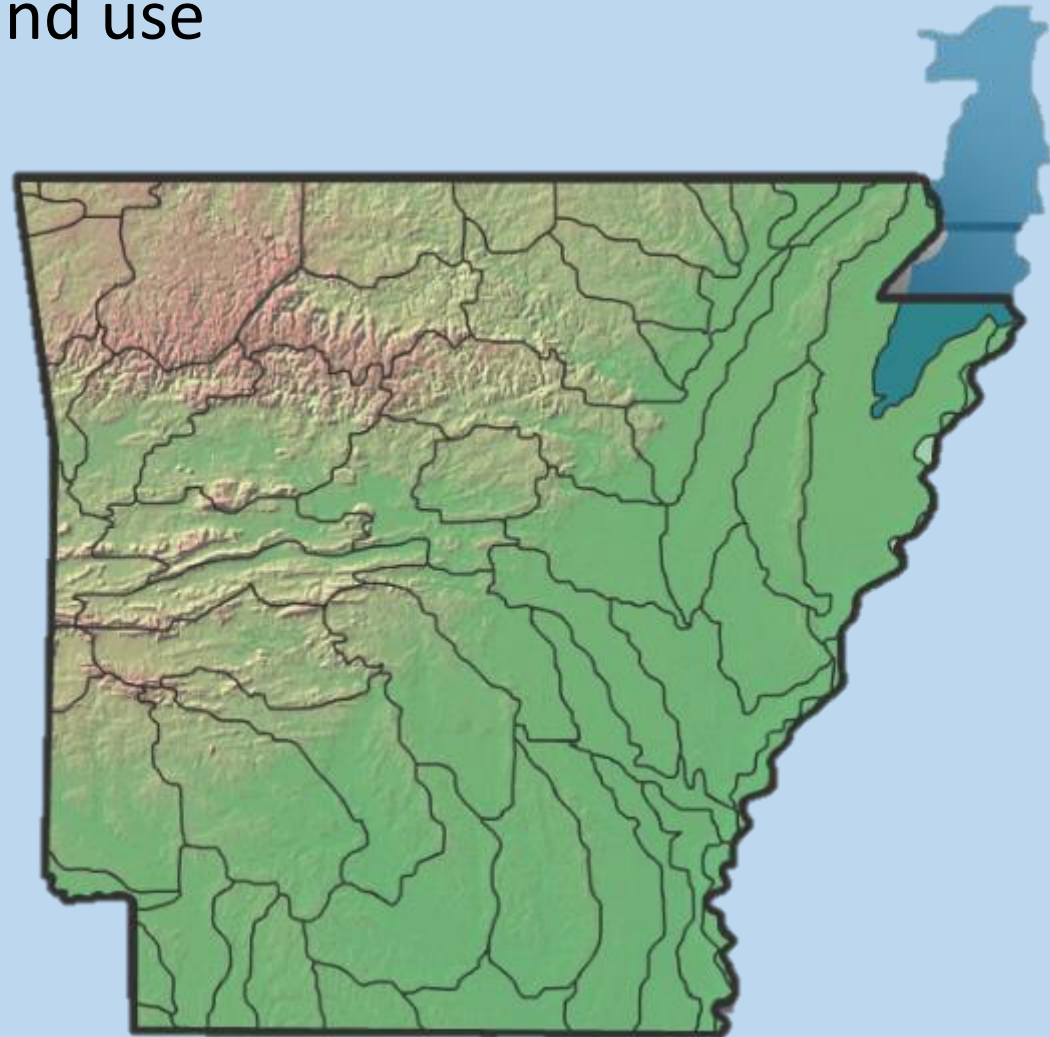
# Little River Ditches Watershed Monitoring 14-400

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# Background

- Primarily agricultural land use
  - 81.4% cropland
  - 11.0% forested
- Sampled weekly when water is present



# Measured Parameters

- pH
- Dissolved Oxygen
- Conductance ( $\mu\text{S}/\text{cm}$ )
- Total Suspended Solids (TSS)
- Turbidity
- Dissolved Nitrate, Nitrite, Orthophosphate
- Total Nitrogen, Total Phosphorus



1



2

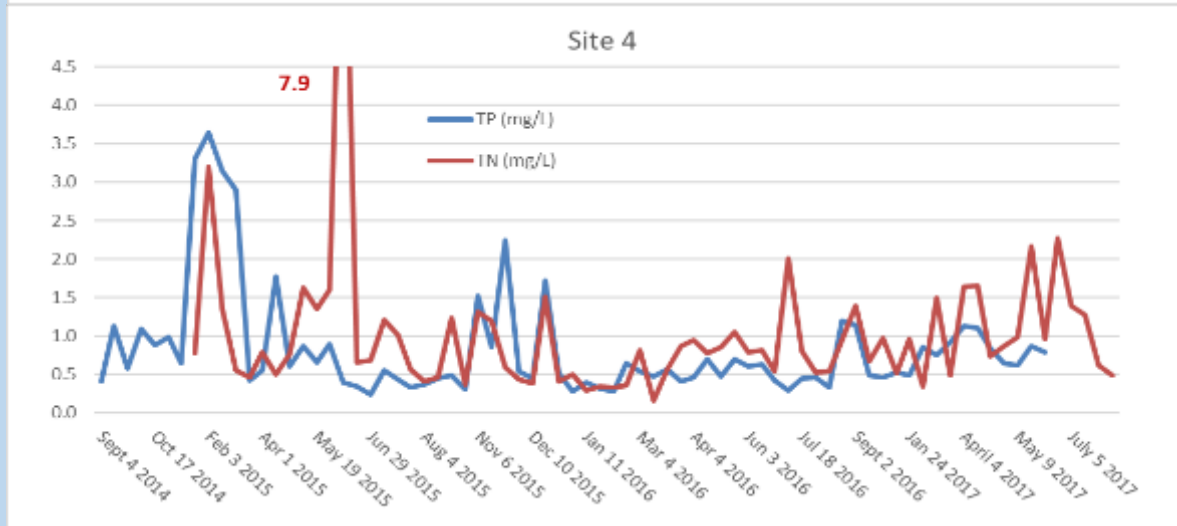
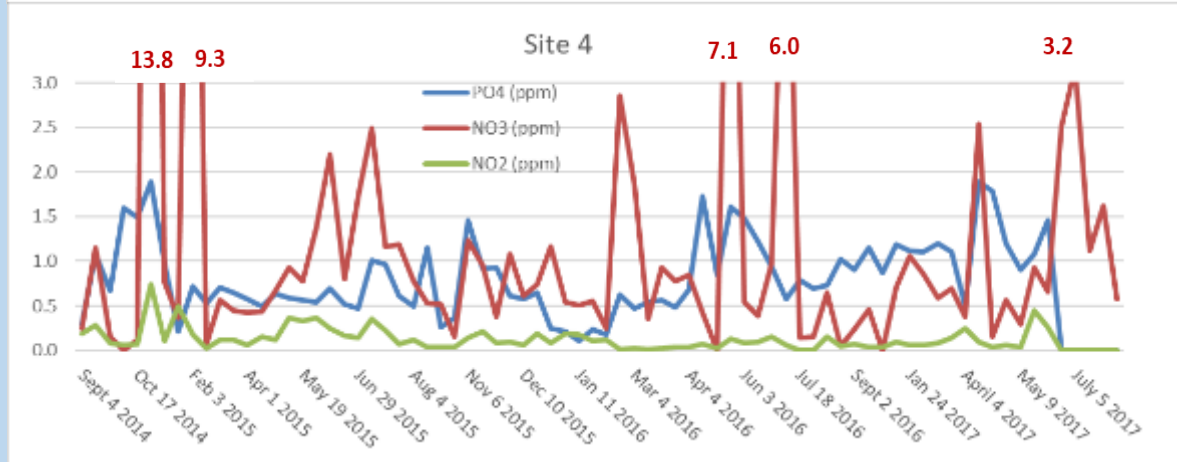
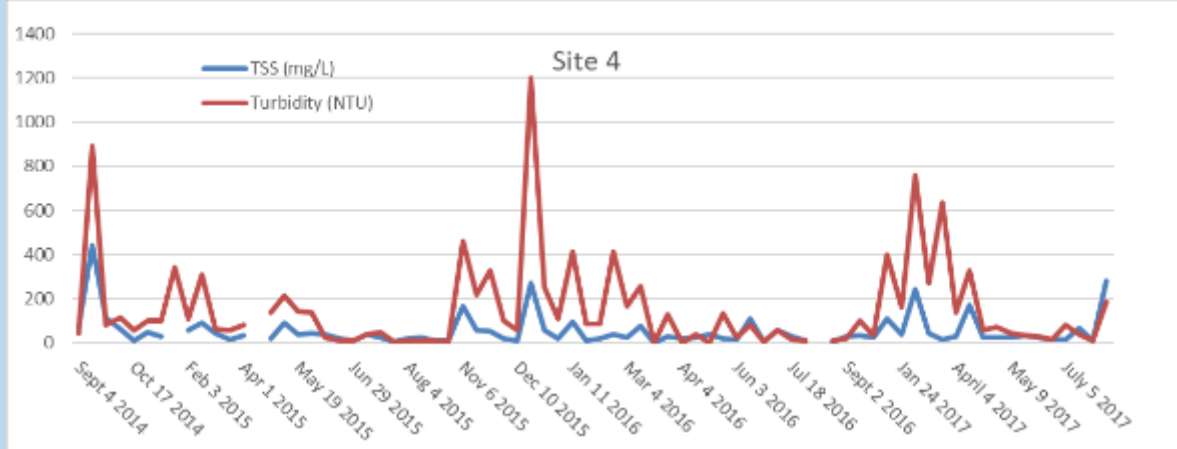


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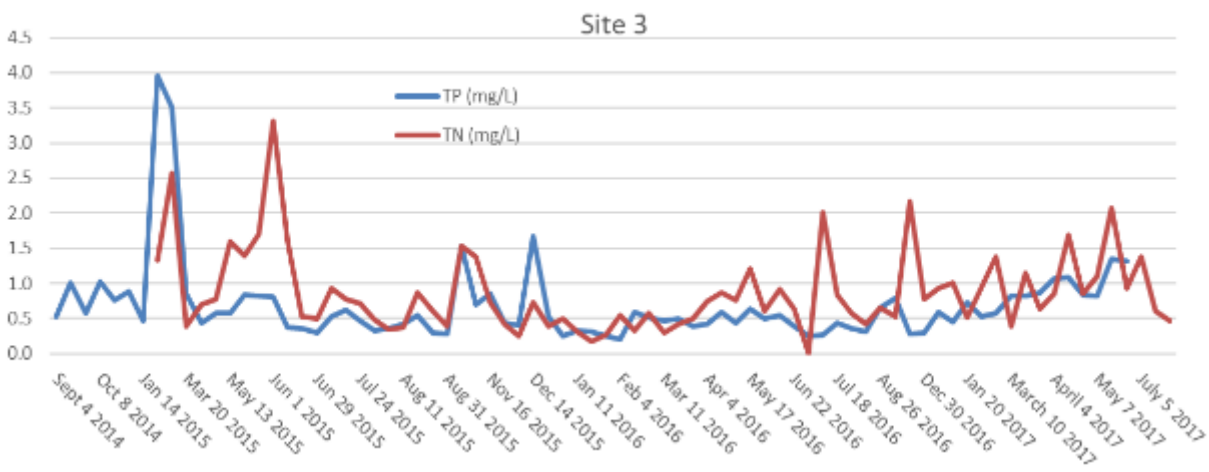
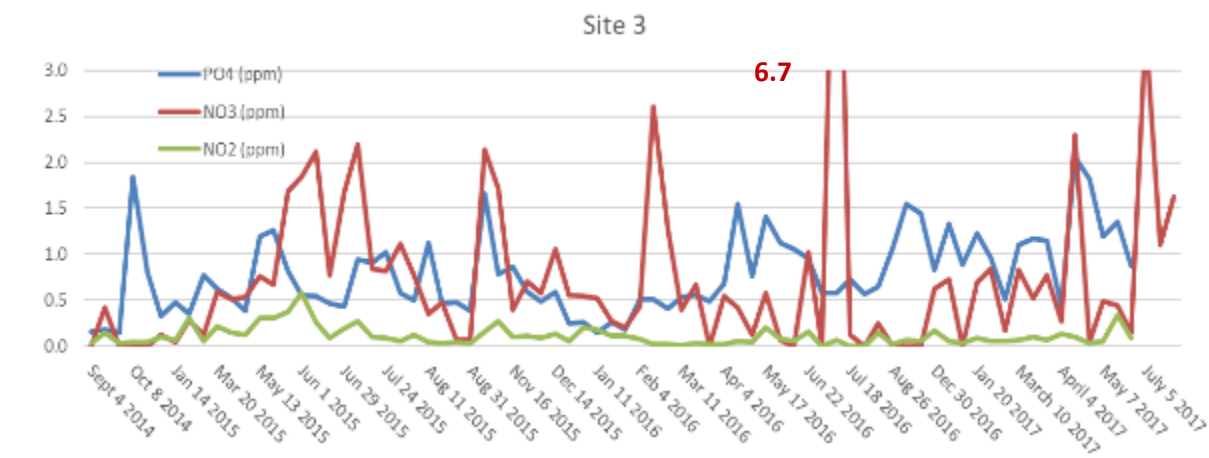
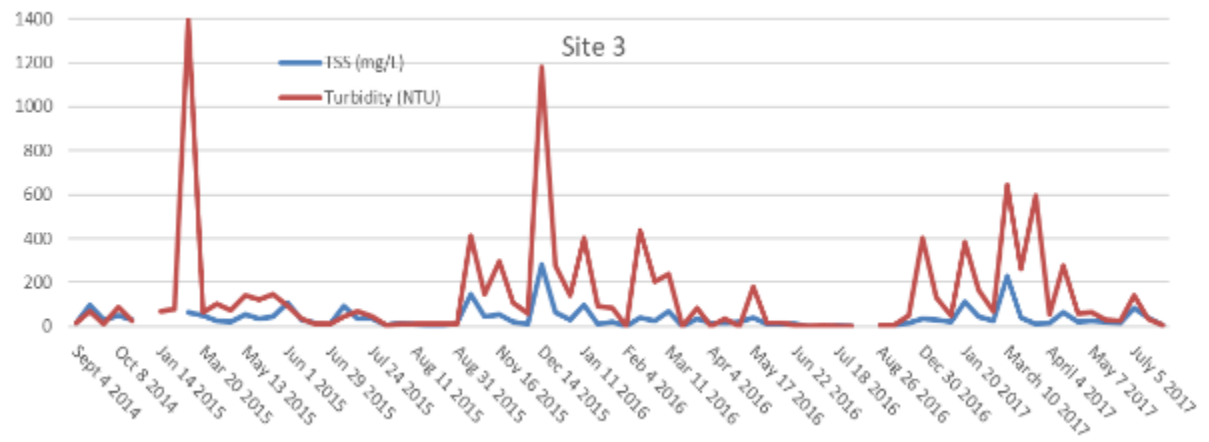


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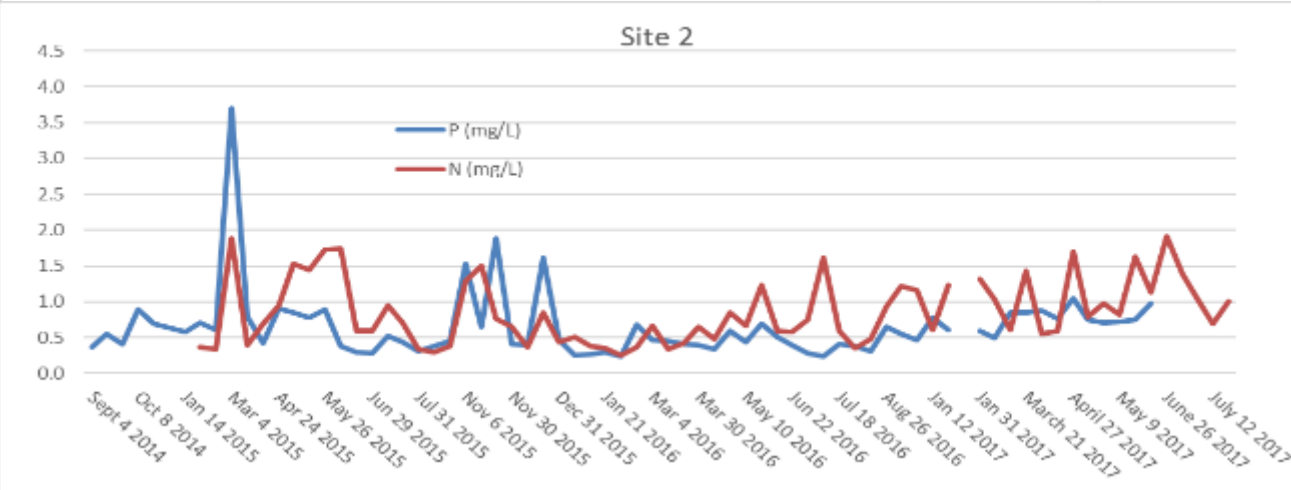
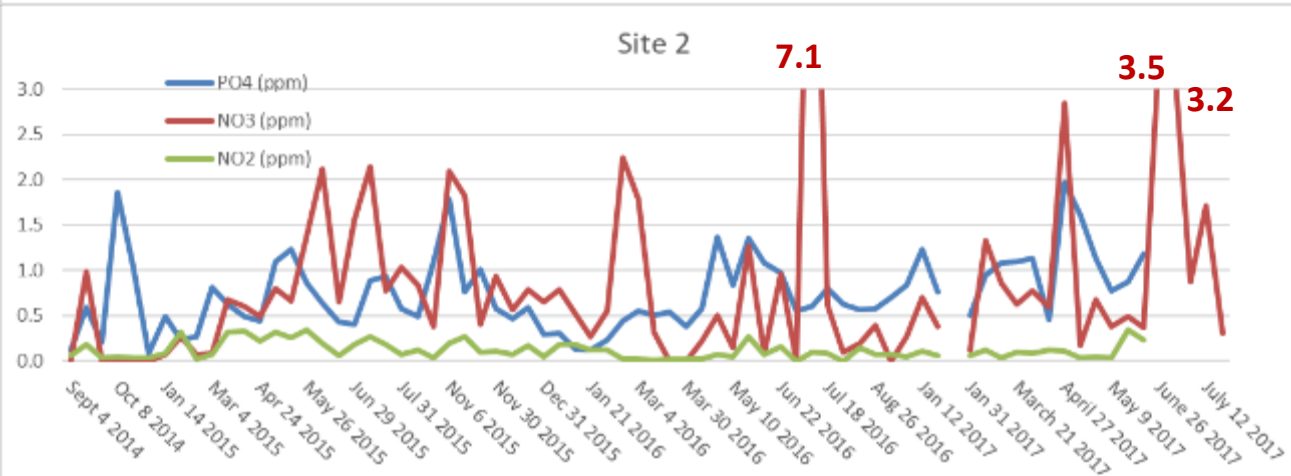
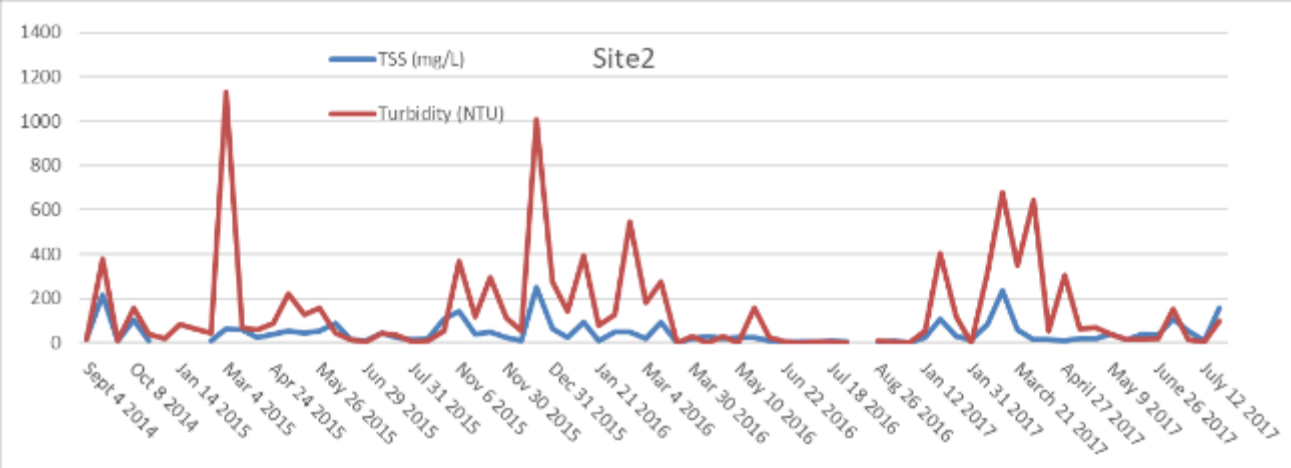
# Site 4



# Site 3



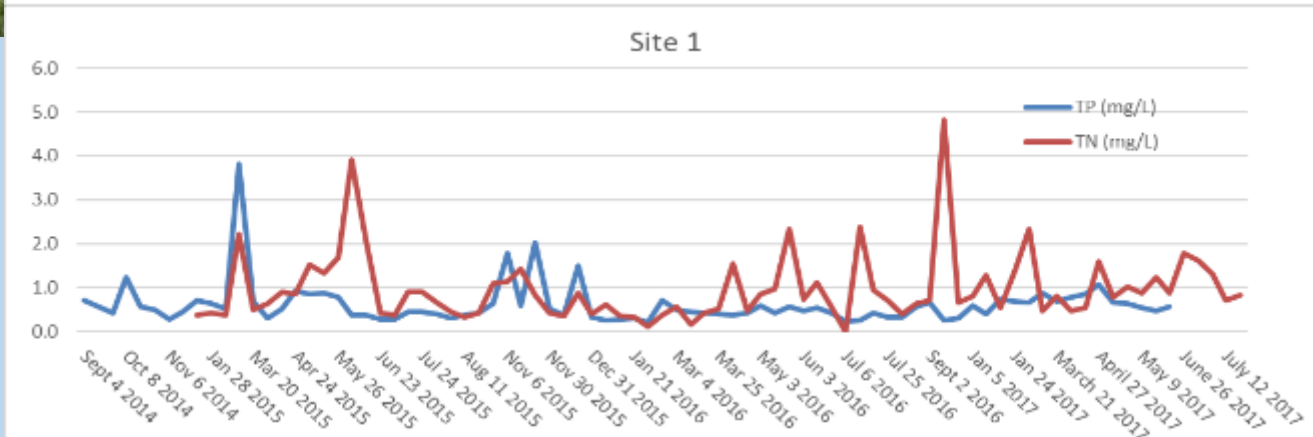
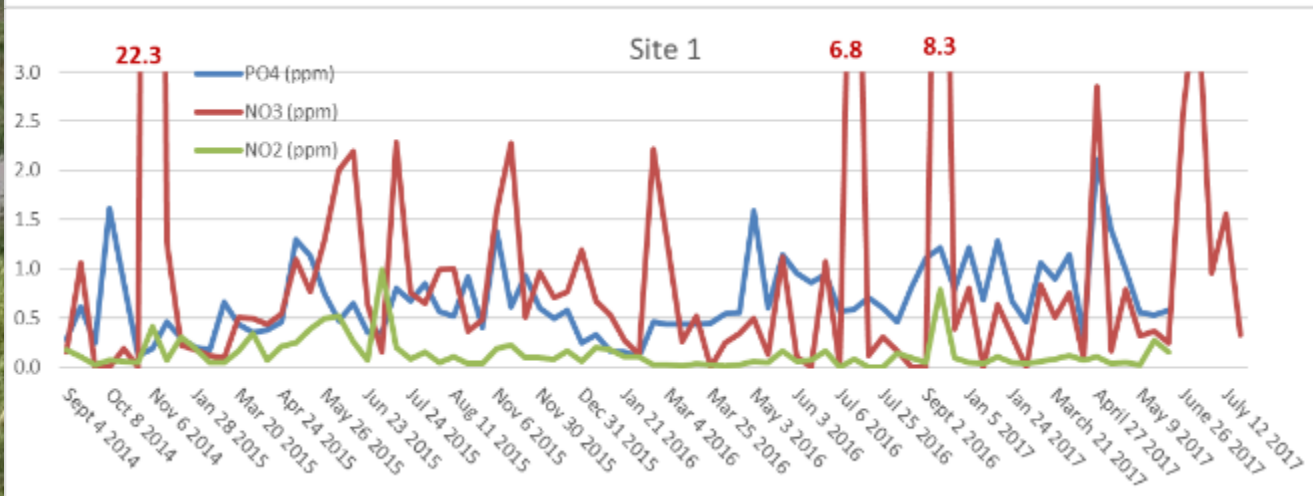
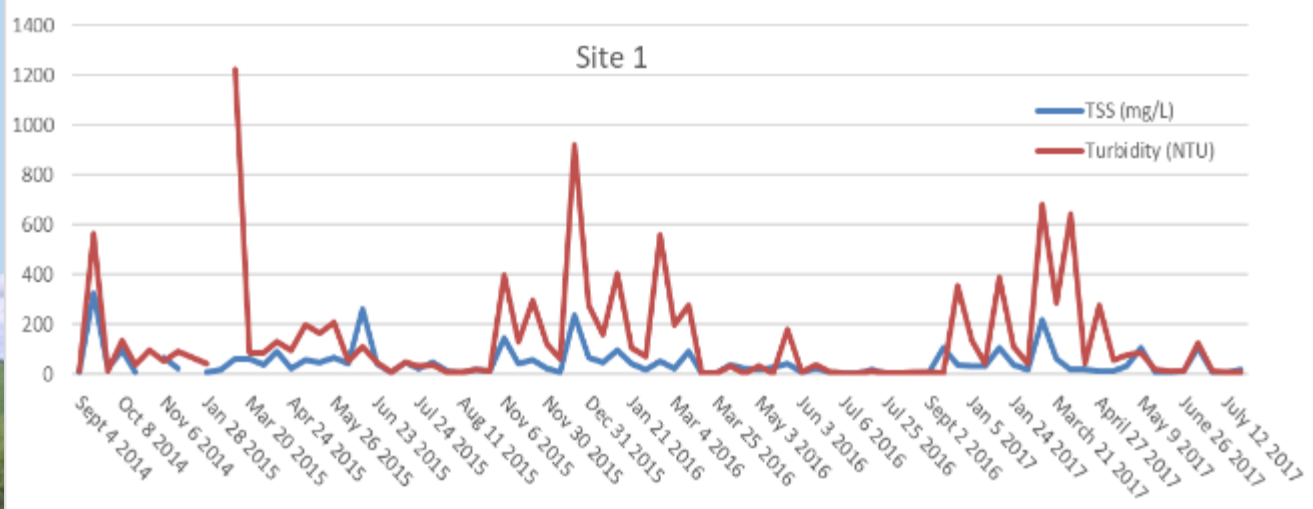
# Site 2



# Site 1



1





# Mean TSS & Turbidity

	TSS (mg/L)	Turbidity (NTU)	
Flow ↓	Site 4	54.5	157.6
	Site 3	39.3	147.6
	Site 2	54.3	177.4
	Site 1	47.3	147.6

- No significant differences from upstream to downstream

# Dissolved nutrients (ppm)

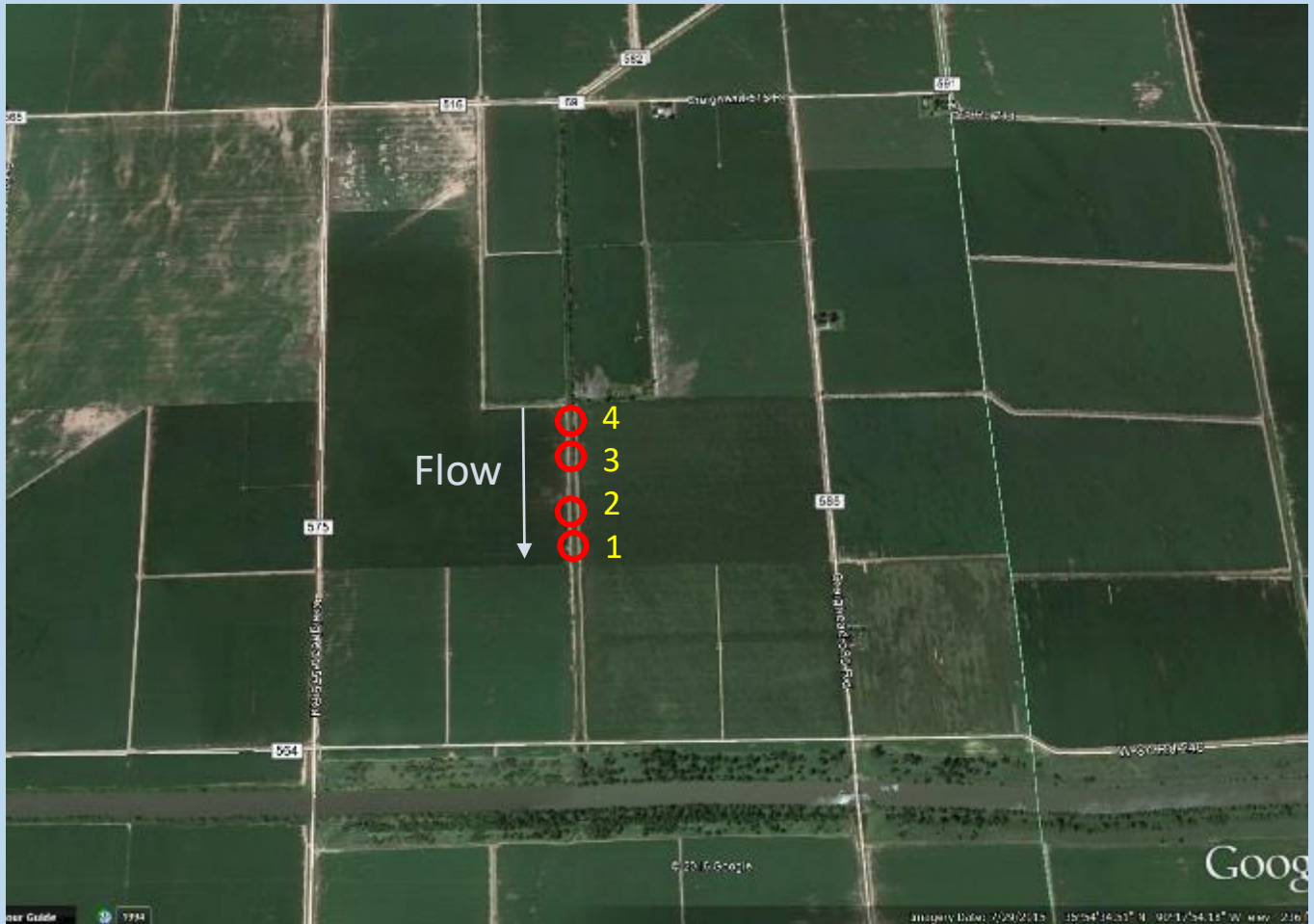
		PO4	NO3	NO2
Flow ↓	Site 4	0.835	1.241	0.134
	Site 3	0.786	0.740	0.111
	Site 2	1.066	1.108	0.111
	Site 1	0.678	1.129	0.137

- Decrease in  $\text{PO}_4$
- $\text{NO}_3/\text{NO}_2$  statistically same from Site 4 to Site 1

# Total N & P

		TP	TN
Flow ↓	Site 4	0.825	1.017
	Site 3	0.686	0.870
	Site 2	0.780	1.097
	Site 1	0.614	0.967

- Decrease in TP
- Decrease in TN from Site 4 to Site 1



Questions??