

Drought Workshop

POTW Impacts & Concerns

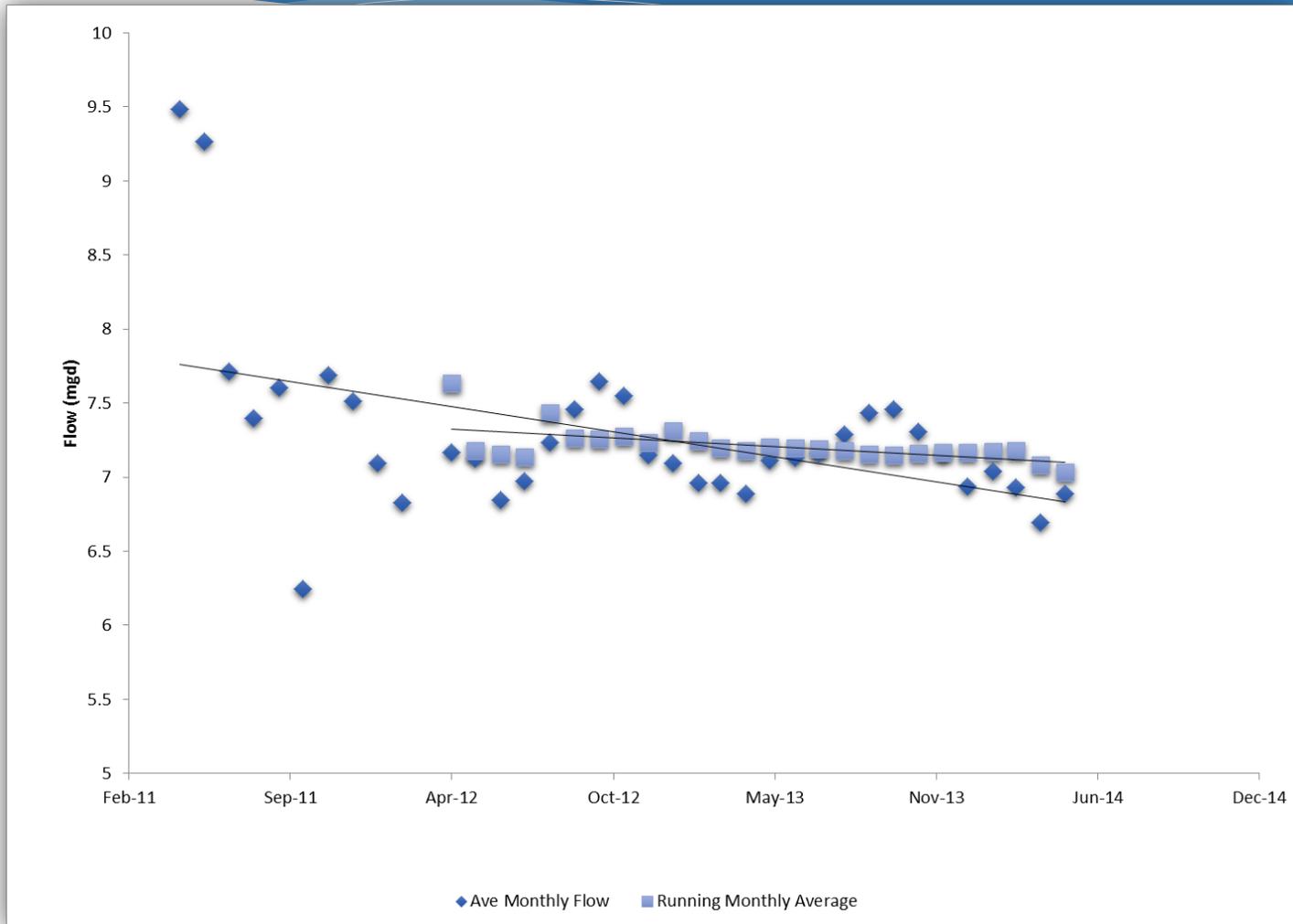
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Central Valley Clean Water Association

Multiple Factors/Impacts

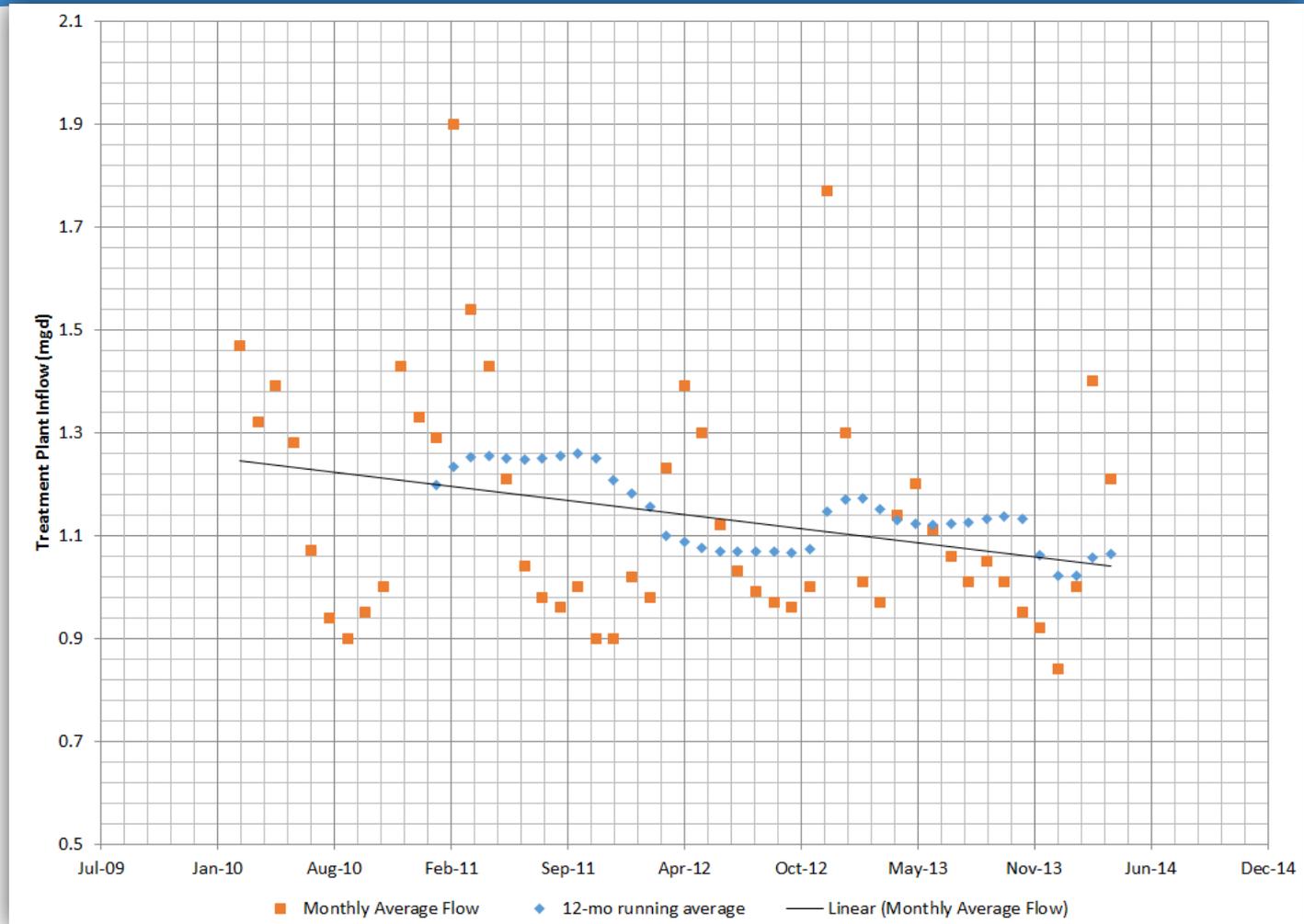
- * **Regulatory**
- * **Economy**
- * **Drought**



Treatment Plant Flow



Treatment Plant Flows



Concerns

- * **Lower Flows = Higher Concentrations**

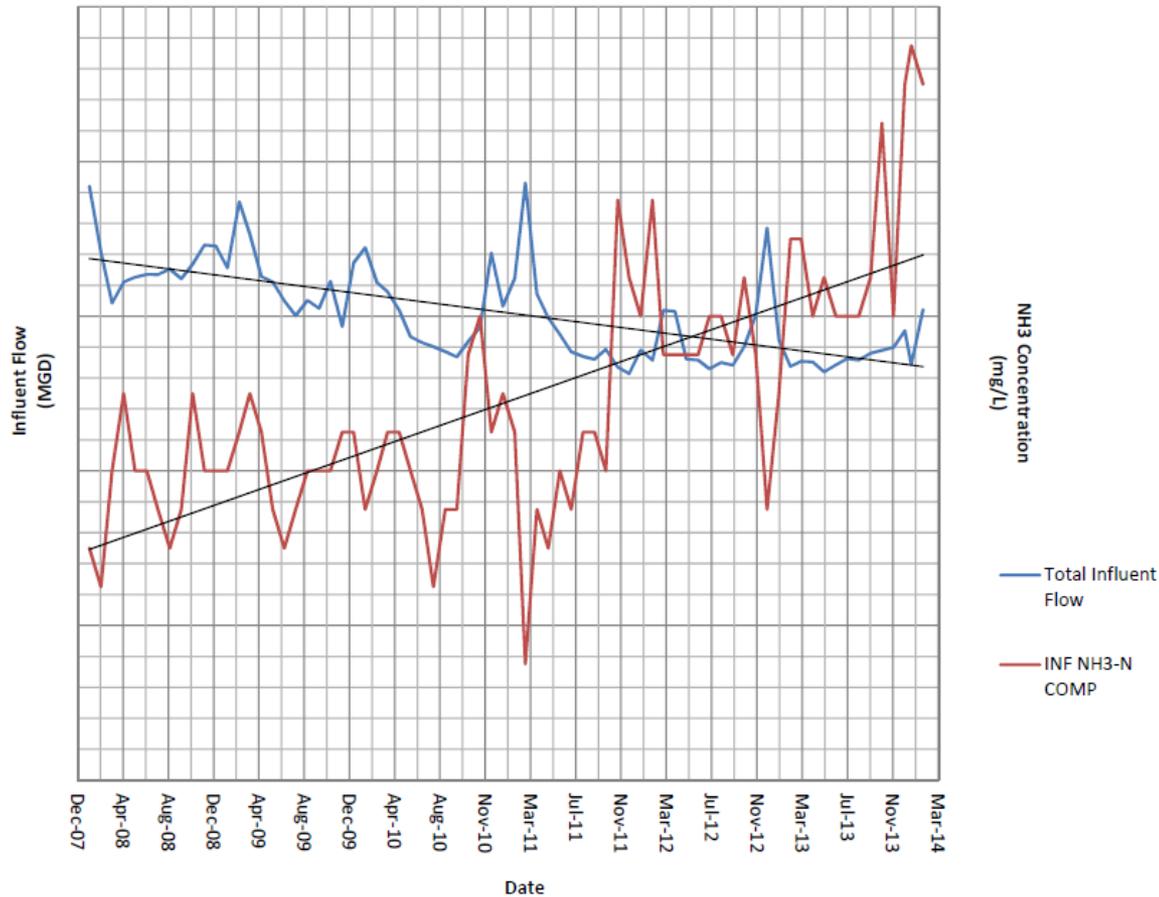
$$\text{concentration} = \frac{\text{mass}}{\text{volume}}$$

Case 1 (normal volume): $0.10 = \frac{10}{100}$

Case 2 (20% decrease in volume): $0.128 = \frac{10}{80}$

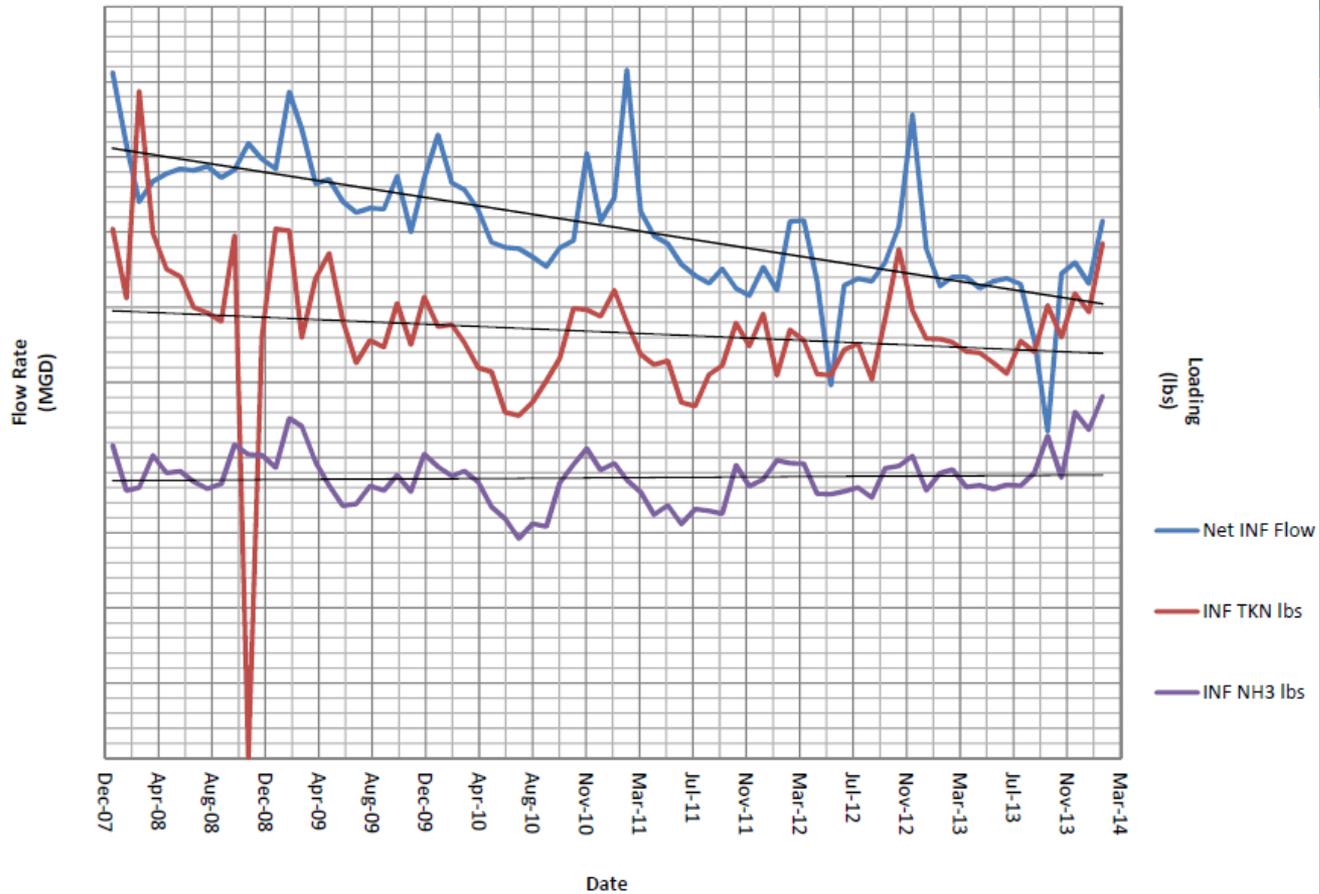
Increased Concentrations

Total Influent Flow vs. Influent NH3 Concentrations



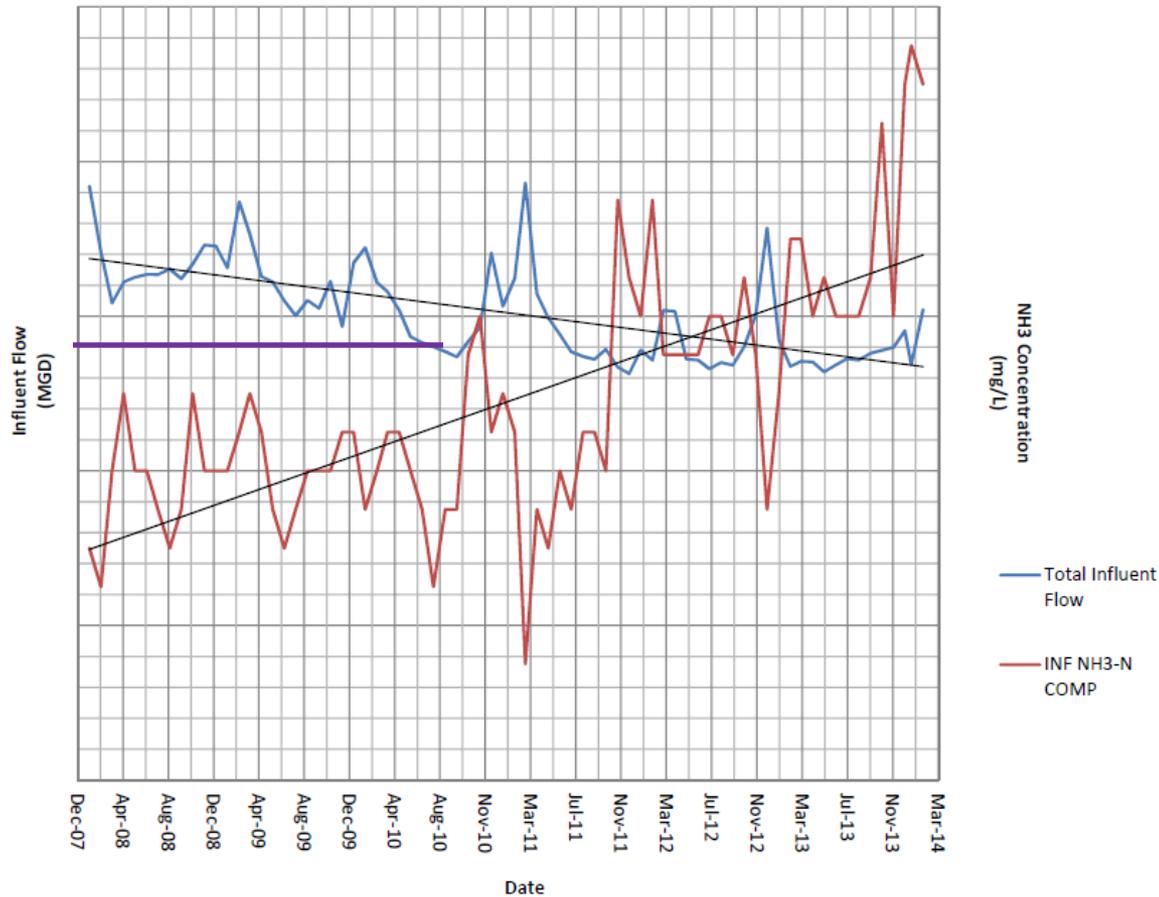
Concentrations & Loads

Net Influent Flow vs. Influent Loading (TKN & NH3)



Increased Concentrations

Total Influent Flow vs. Influent NH3 Concentrations

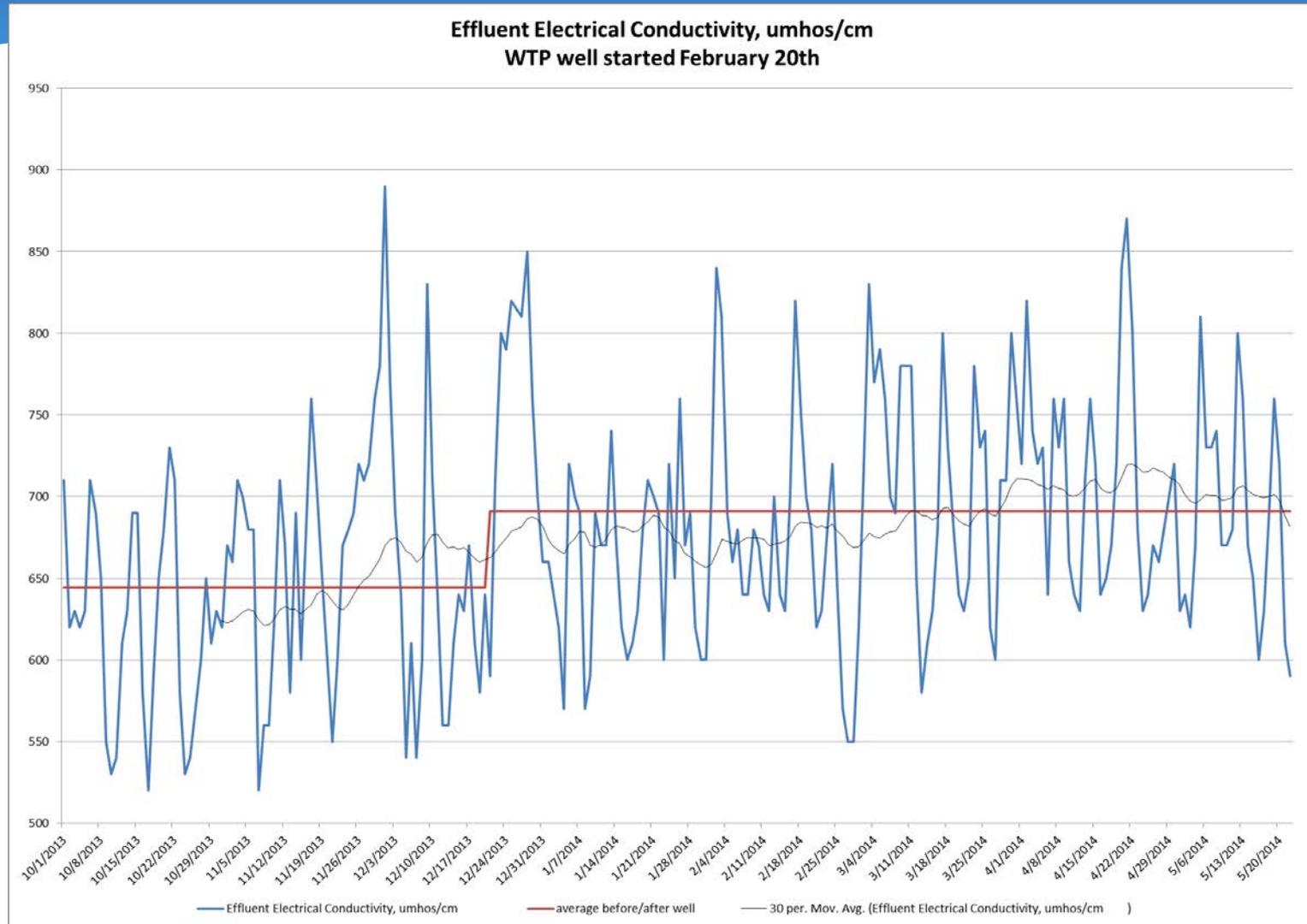


Other Flow Issues

- * Sanitary Sewer
- * Rates/Income



Change in Source Water



Receiving Water Changes

- * Flow
- * Ambient Concentrations (Assimilative Capacity)



Recycled Water

