

Recomputation of Ambient Water Quality in the Santa Ana River Watershed

BMPTF: March 24, 2020



Ambient Water Quality Phases

1: Data Gathering

- ✓ Data Compilation
- ✓ QA/QC, Process, and Upload recent data

2: Point Statistics

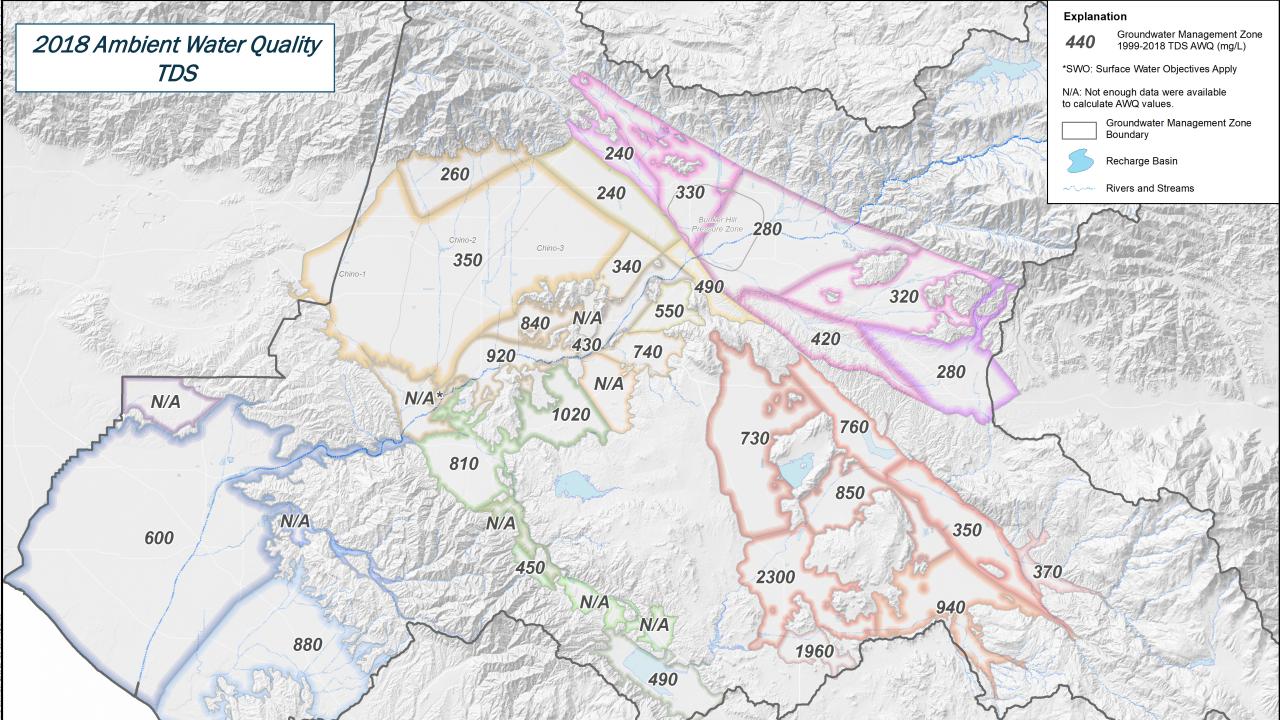
- ✓ Calculate Water Quality Point Statistics
- ✓ Shapiro-Wilk Test for Normality

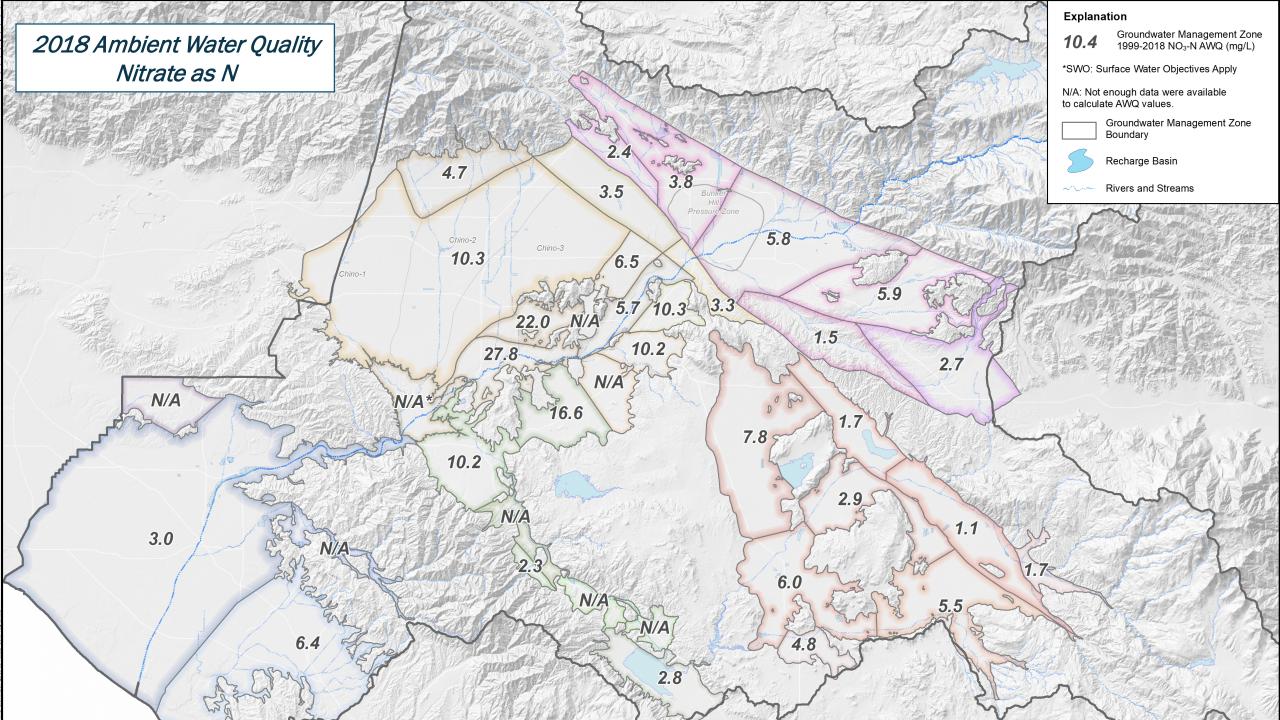
3: Computations

- ✓ Groundwater Elevation Contours
- ✓ Nitrate, TDS Concentrations
- ✓ Compute ambient water quality for GMZ's

4: Interpretive Tools

✓ Innovative Interpretive Tools





Interpretive Tools Well Attrition

- AWQ Draft TDS Nitrate Data Loss Risk Two slides
 - Nitrate Data Loss Risk
 - TDS Data Loss Risk
- AWQ Draft TDS and Nitrate Well Attrition Analysis -13 slides
 - Nitrate Well Attrition Analysis
 - TDS Well Attrition Analysis



Interpretive Tools Well Trends

- AWQ Draft Nitrate Key Well Trends one slide: key wells symbolized by trend in Nitrate over the computation period.
- AWQ Draft TDS Key Well Trends one slide: key wells symbolized by trend in TDS over the computation period.
- <u>AWQ Draft Nitrate Well Trends</u> one slide: All wells symbolized by trend in nitrate over the computation period.
- <u>AWQ Draft TDS Well Trends</u> one slide: All wells symbolized by trend in TDS over the computation period
- AWQ Draft Point Statistics Percent Rank four slides:
 - Nitrate Point Statistics and Averages
 - TDS Point Statistics and
 - Nitrate Point Statistics and Averages Percent Difference from 2015 2018
 - TDS Point Statistics and Averages Percent Difference from 2015 2018



Proposed Near-Term Schedule

