

Update on Bishop Creek Vision Project for Inyo Mono IRWM

- TMDL-alt project to address bacteria impairment in Bishop Creek, Inyo Co.
- Collaborative approach with stakeholders rather than a "traditional" TMDL

Contacts <u>ed.hancock@waterboards.ca.gov</u> <u>cindy.wise@waterboards.ca.gov</u>

## Overview – update since January 2018 IRWM discussion

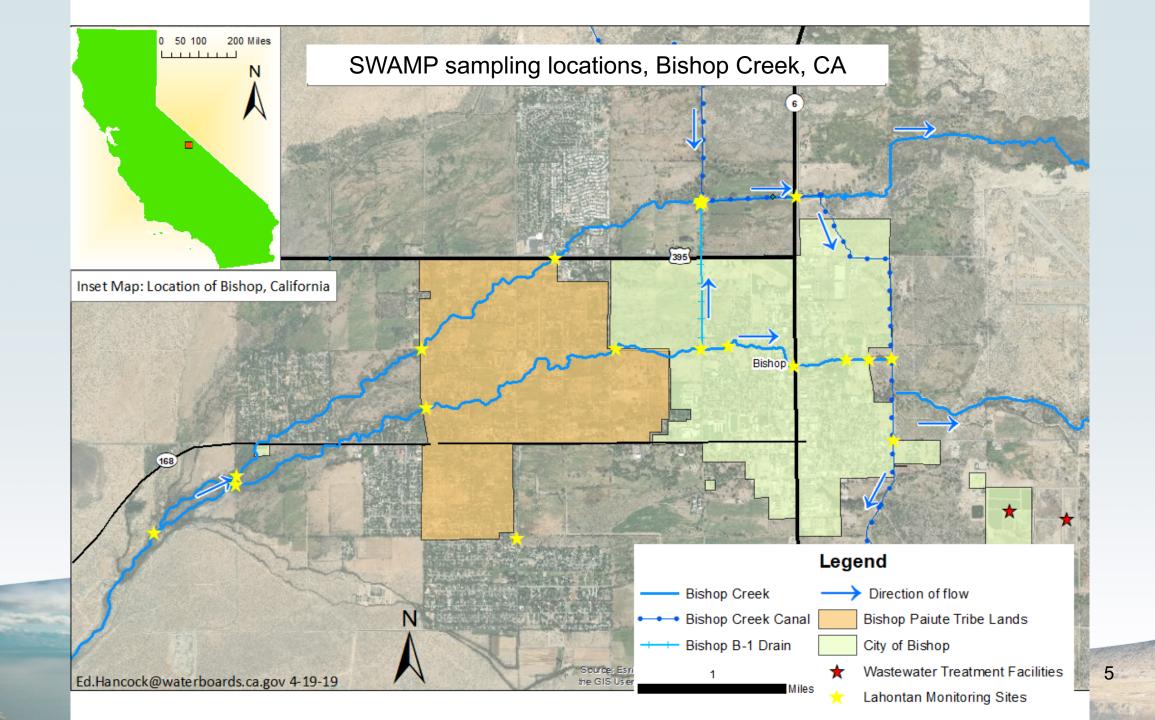
- What is a Vision Project?
- How were water quality issues identified in Bishop?
- Vision Project work completed to date
- Stakeholder engagement for data inventory
- Next steps

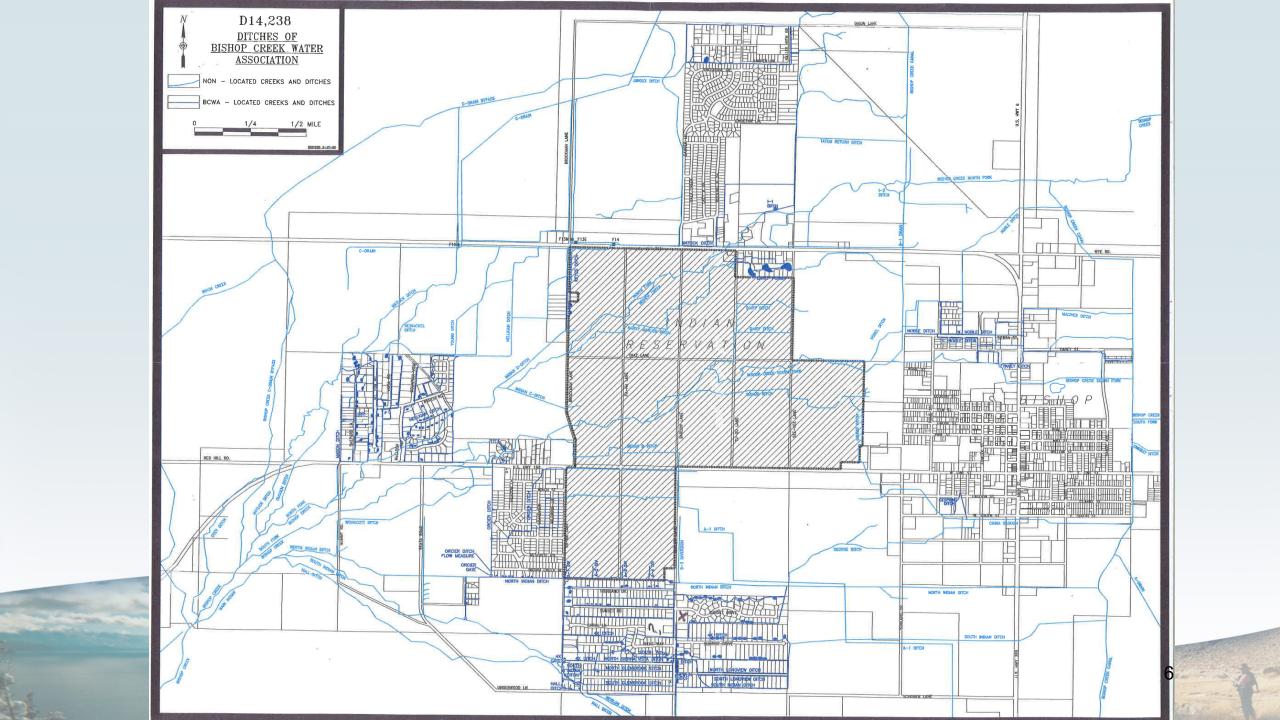
#### What is a Vision Project?

- 2013: USEPA announces a new collaborative framework for implementing the CWA Section 303(d) program called the <u>Long-</u> <u>Term Vision for Assessment, Restoration, and Protection under the</u> <u>Clean Water Act Section 303(d) Program</u> (The Vision).
- Watershed-wide planning initiative focused on improving WQ
- Provides flexibility in using available tools beyond TMDLs to attain WQ restoration

### How were bacteria issues identified in Bishop Creek?

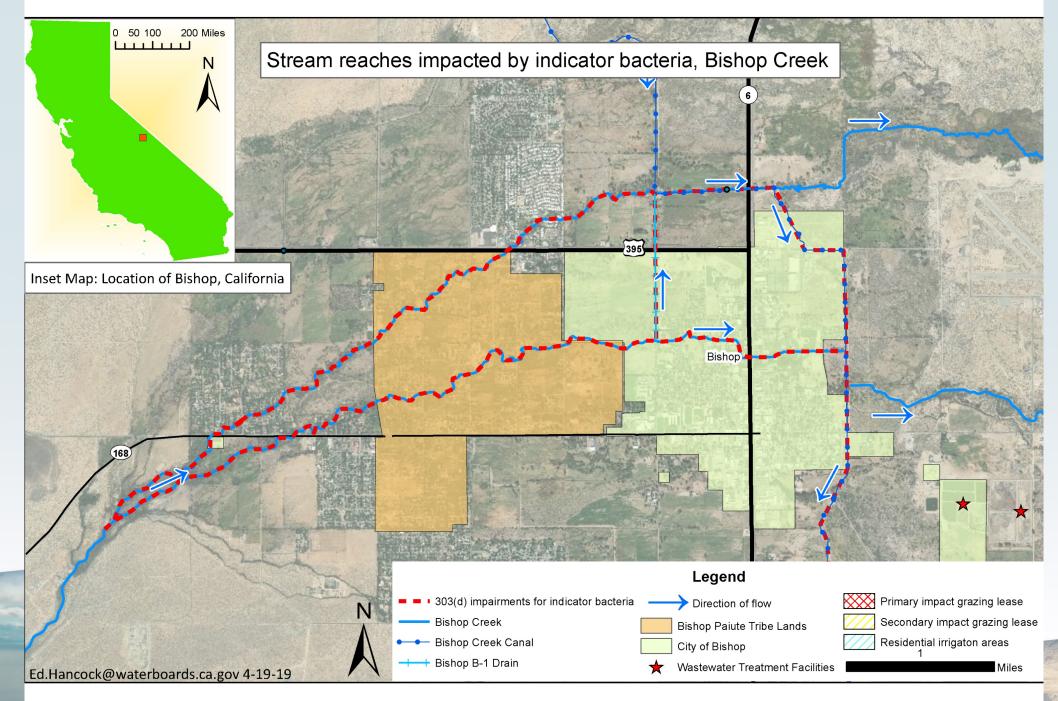
- 2012/2013: SWAMP screening detects unusually high bacteria concentrations
- 2013-2016: Diagnostic sampling reveals bacteria concentrations in the creek as well above WQOs
  - Sampling strategy was somewhat "shotgun"; data set is useful for identifying that there is a water quality impairment, but less useful for source analysis due to temporal variation in site visits
- 2014: Contractor working for Lahontan performs MST analysis in Bishop Creek as part of wider-focused Eastern Sierra Bacteria Study





#### Vision Project Timeline of Key Events

- 2014: Inyo County Health Dept. posts warning signs in portions of creek where water contact rec is known to occur
  - 2014-present: Paiute Tribe continues to post warning signs on sections of the creek which flow through tribal lands
- 303(d) listing for Indicator Bacteria due with adoption of pending 2018 Integrated Report (likely November 2019)
- 2015: In anticipation of listing, Water Board identifies Bishop Creek as Vision Project candidate
- 2017: Staff begin work on Vision Project Plan
- Expected: 2022 Vision Project Plan complete



#### Potential sources of bacteria

- Grazing related sources from numerous grazing leases
- Urban and suburban runoff (pet wastes, ornamental residential creek diversions, urban NPS)
- Wastewater exfiltration (sewer laterals, WWTP collection infrastructure)
- Natural sources

#### Vision Project Work Completed to Date

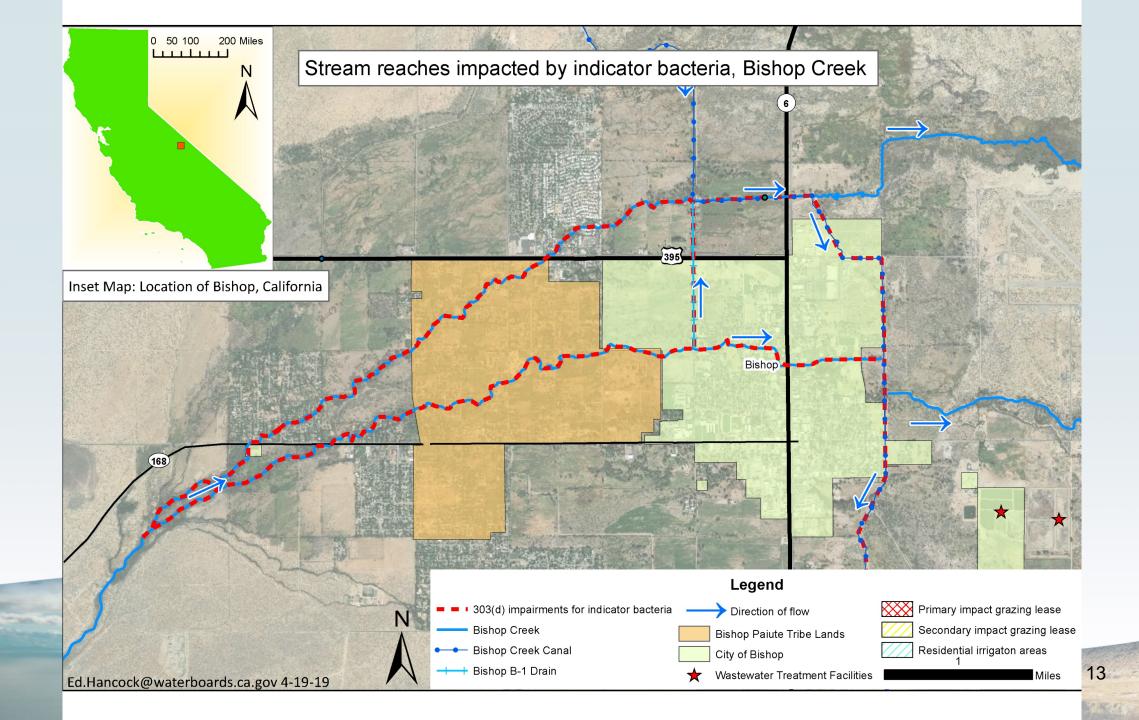
- Planning and Outreach Documents (Project Charter, Problem Statement, Fact Sheet, Draft Outreach Plan)
- Initial stakeholder outreach: Paiute Tribe, LADWP, City of Bishop,
  Inyo County, Eastern Sierra Land Trust, Eastern Sierra CSD
- Website and listserve https://www.waterboards.ca.gov/lahontan/water\_issues/programs/t mdl/bishopcreek.html
- Sanitary Sewer Audit (April 2018) led by staff from Lahontan South Office (Victorville)
- Data analysis identified four (4) grazing leases west of the City of Bishop which are probable major contributors to bacteria in the creek

## Two Key Stakeholders Contributing data to Vision Project (to date)

- Bishop Paiute Tribe
  - Collecting E. coli data for ~20 years above and below tribal lands (4 locations, 2 on each fork of creek)
- Los Angeles Dept. of Water and Power (LADWP)
  - Major land owner in Owens Valley
  - Collecting E. coli and MST data from Bishop Creek since 2014

# If Other Stakeholders have Bishop Creek Data for Us to Consider, Data Sharing Resources Are Available

- Regional Monitoring Coordinator can provide training and information to stakeholders who collect water quality data and are willing/desire to upload that data to CEDEN
- Vision Project staff can connect stakeholders with the regional data center (RDC) or to the Regional Monitoring Coordinator to assist in data upload



#### **Next Steps for Vision Project**

- Detailed source analysis using Lahontan, LADWP, Tribe data, available MST data
- Stakeholder outreach and education
  - Connect ranchers with NRCS
  - Healthy watershed education program in collaboration with Paiute Tribe
- Water Board is preparing a waste discharge permit (WDR) for LADWP grazing lands (planned adoption by November 2019)
  - Vision staff expect that WDR will go a long way to attain WQOs in Bishop Creek
  - WDR will be a major implementation tool for Vision Project
- Complete Vison Project Plan document

#### Questions?

Ed.Hancock@waterboards.ca.gov Cindy.Wise@waterboards.ca.gov



https://www.waterboards.ca.gov/lahontan/water\_issues/programs/tmdl/bishopcreek.html