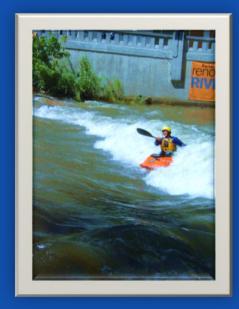
#### Building Bridges between Water Programs for the Truckee River: Leveraging CWA, SDWA and Regional Efforts for Water Quality Planning

#### National Nonpoint Source Training Workshop November 6, 2018







## Supported by:



Kim Rigdon, Bureau of Safe Drinking Water

## Nevada Nonpoint Source Management Program

Birgit Widegren, Bureau of Water Quality Planning





## Truckee River Watershed

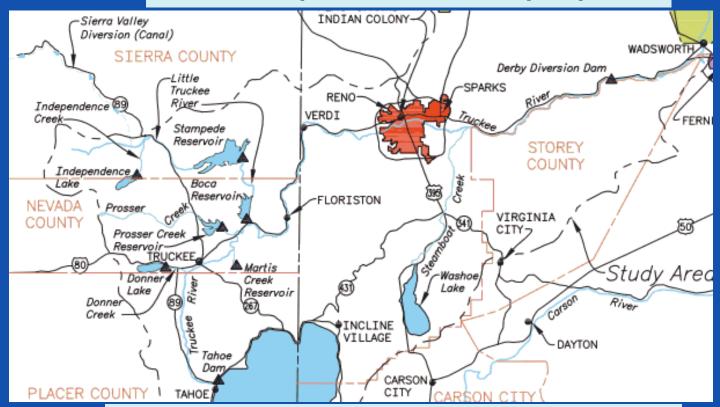








## 90% of the drinking water for Reno/Sparks ~ 500,000 people



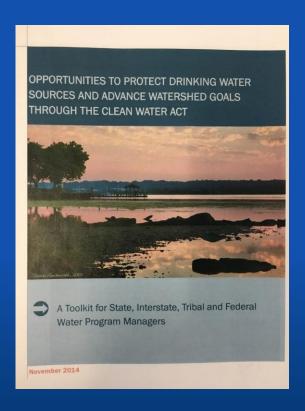
- 121 miles long and 3,060 sq mi
- Peak flows 400 to 20,800 cfs
- Two states/Two tribes: Washoe and Paiute
- T&E Species: Lahontan cutthroat and Cui-Ui
- Diversion to Carson River Basin (1/3 flow)
- Flows and water rights regulated by TROA
- 303(d) Listed for TDS, TN and TP with TMDLs

## Strategy to integrate CWA/SWDA Programs

- Review 2014 Toolkit
- Research other programs
- Strategize how to integrate programs

### Desired end product:

Comprehensive
Source Water and Watershed Plan



## **Putting our Heads Together!**

Clean Water Act and Safe Drinking Water Act Grant Programs



#### **ISWPP Grant Program**

Assist communities to Institutionalize the protection of drinking water resources through local planning processes, education and outreach, and development/implementation of Source Water Protection Plans.

#### **NPS Grant Program**

Reduce NPS pollution through water quality improvement projects, education and outreach, and development and implementation of watershed based plans.



## Considerations for an integrated approach

- Surface and ground water
- Work across silos
- Coordinate between multiple jurisdictions
- Work within Nevada water rights framework
- Grass-roots, bottom-up effort with stakeholder buy-in

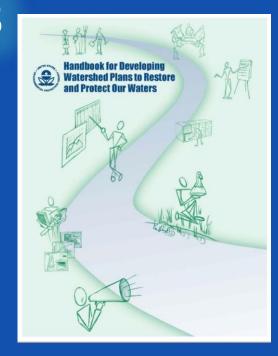
## Guidance Documents



FY2016-2017 National Water Program Guidance Office of Water
April 2015

U.S. Environmental Protection Agency

EPA 420-R-15-008

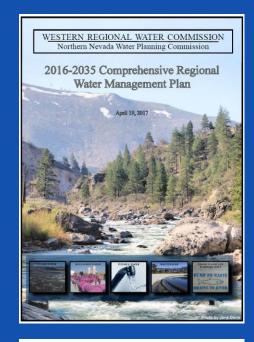




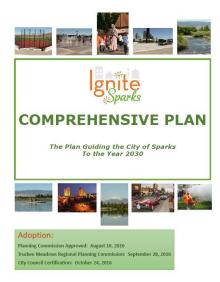
Nevada Nonpoint Source Management Plan

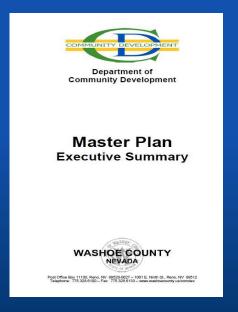
2015-2019

## Planning Updates









## Water Programs Working Together – YES!

## Community Plans and Programs

- •Master Plan updates
  - •Data & Projects
  - •Need \$



## State Non Point Source Program

- Funding for project implementation
- Need an EPA approved Watershed Management Plan (9 Elements)



#### State Integrated Source Water Protection Program

- Contractor for Plan Development on Board
- Need a County-Wide plan to protect Drinking Water Sources



- Stakeholder Support
- Meeting Facilitation
- Presentations
- Coordination



Plan Development

- Technical Expertise
- Author Plan
- Coordinate Plan Acceptance/Approval



Implementation

- Action Plan (Prioritized Project List)
- •Investigate Funding Opportunities
- •Technical Assistance
- Education/Outreach

http://www.rci-nv.com/source\_water\_protection/

How does this work?

## Partners<br/>Collaborating:

Washoe Washoe City of Reno City of Sparks County Health County District Regional Remediation Flood Stormwater **Planning** District Committee Management Nevada Land Conservation **TMWA &** The Nature Trust/One Other PWS District Conservancy Truckee River

And others.....

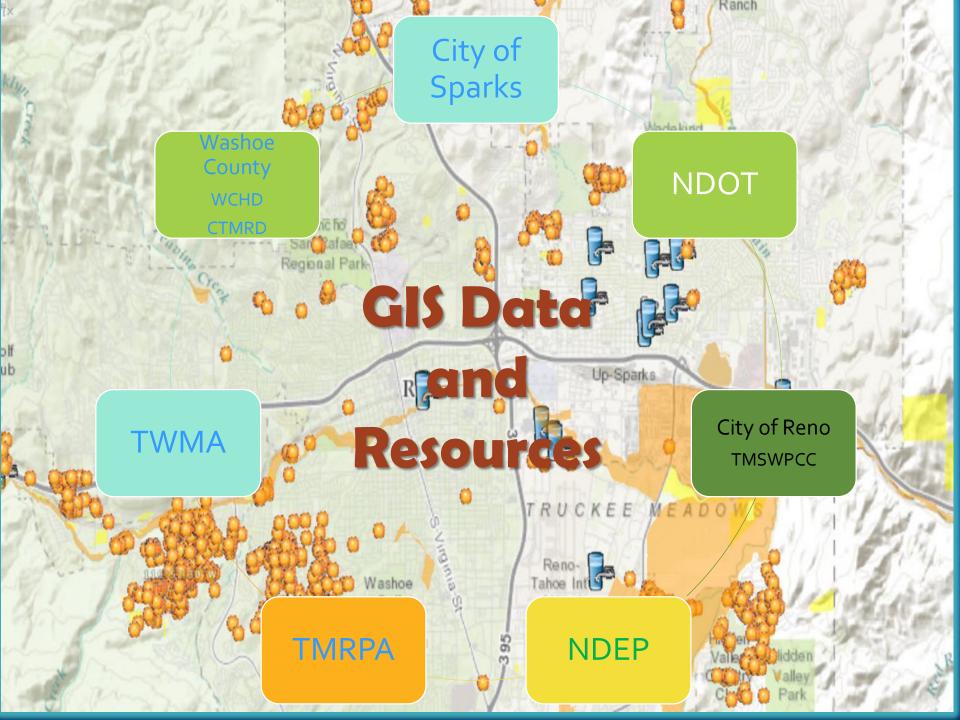
## What did the stakeholders say?



## What is the purpose?

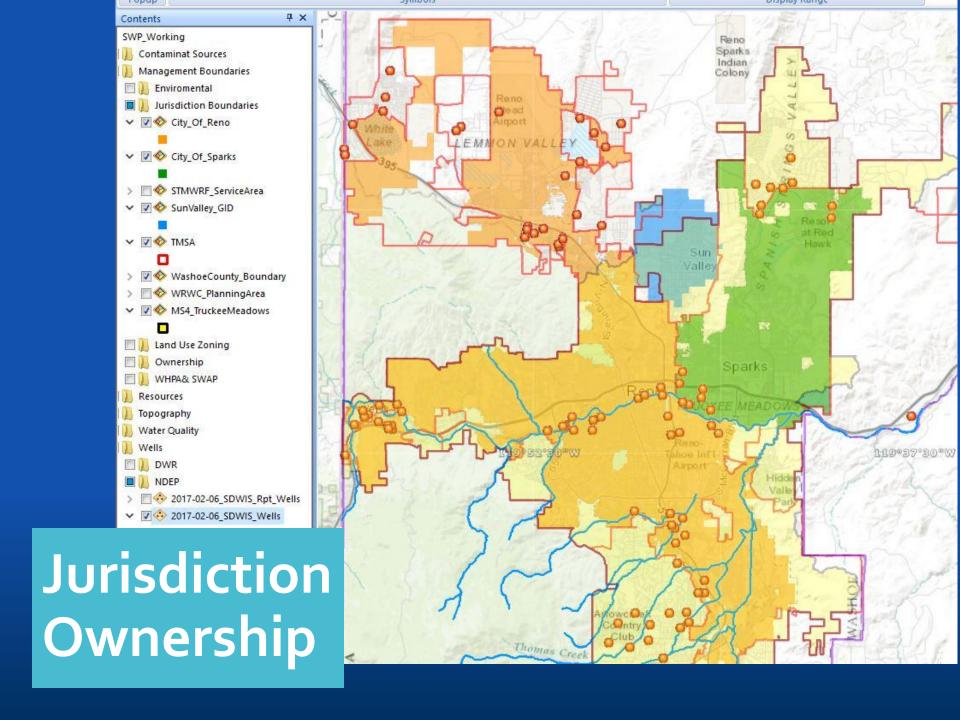
To create a tool for communities in Washoe County to help protect drinking water sources and manage the Truckee River watershed to maintain and or improve water quality (Source Water Protection and Watershed Management in Washoe County team

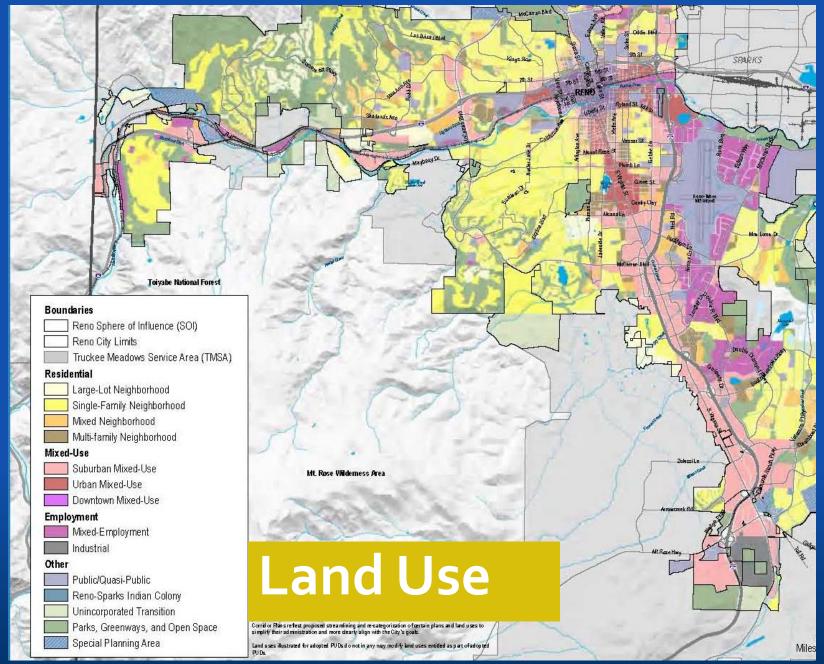




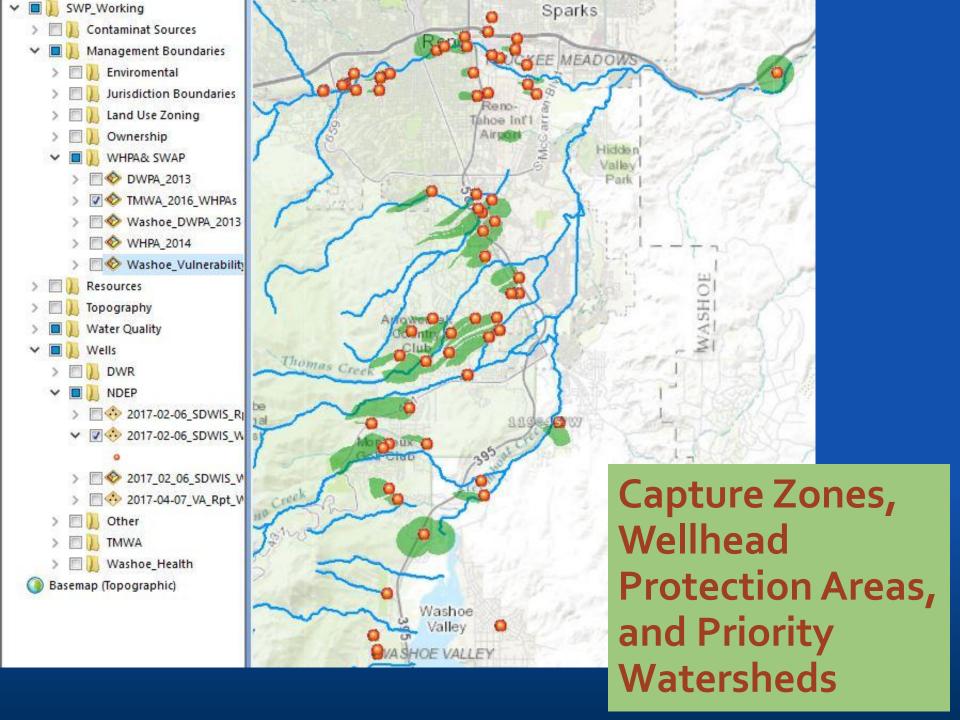
# Creating a Useful Tool for Decision Making

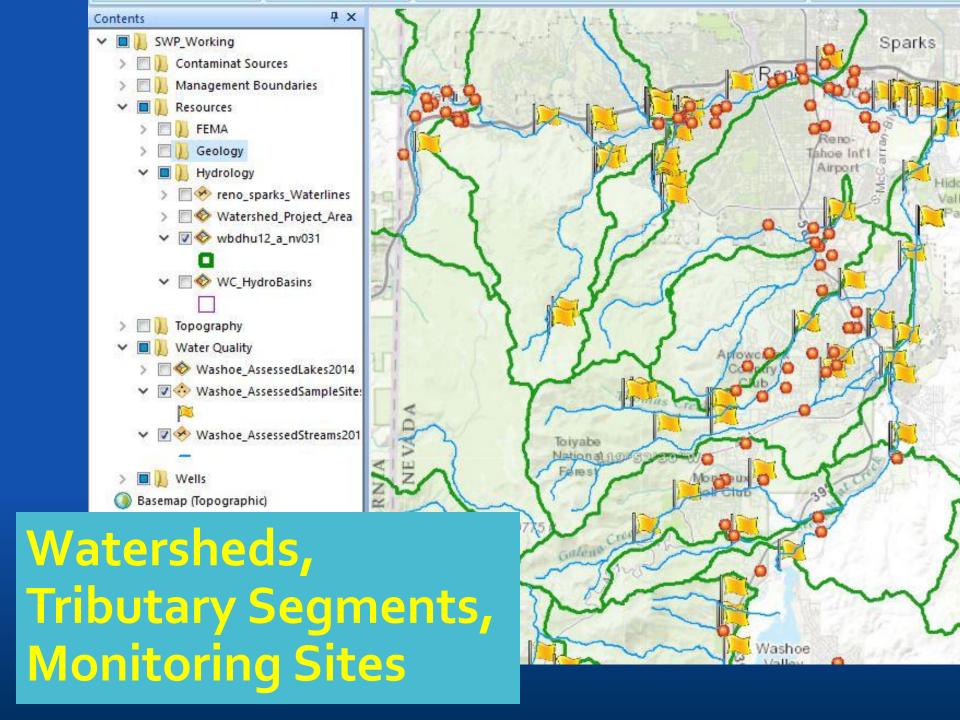
- Describe the Situation
- Prioritize Projects
- Implement Projects
- Clearinghouse for data (TMRPA)

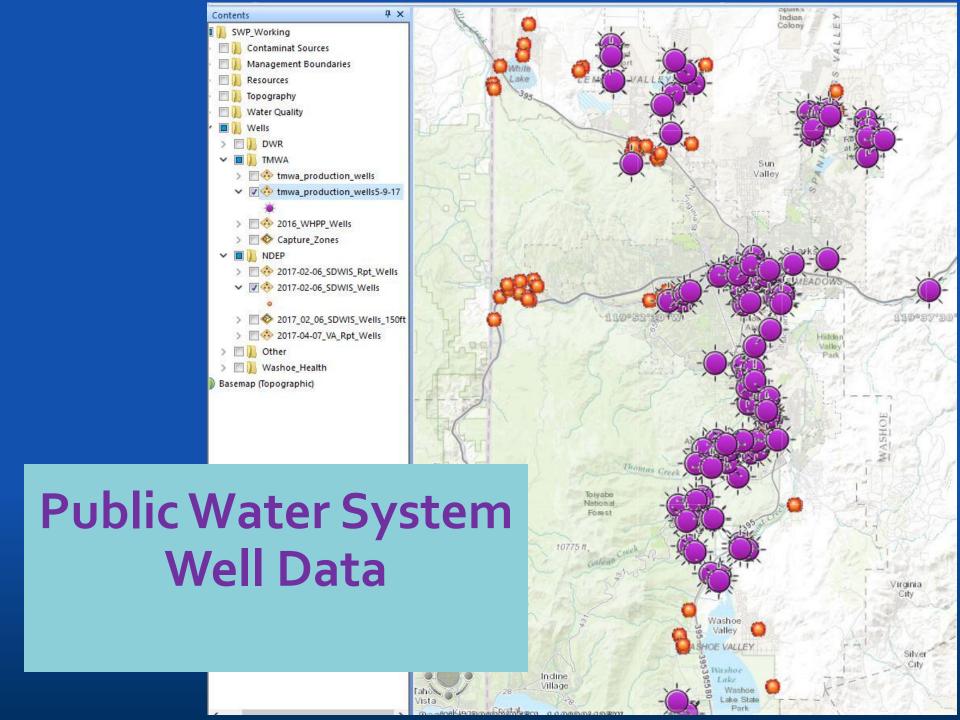


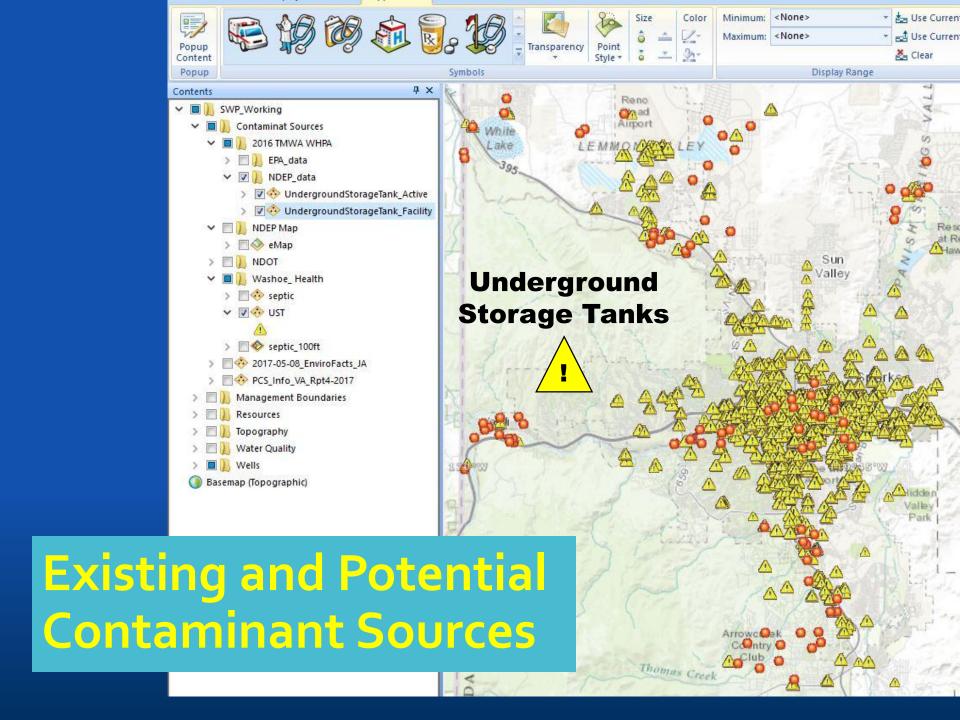


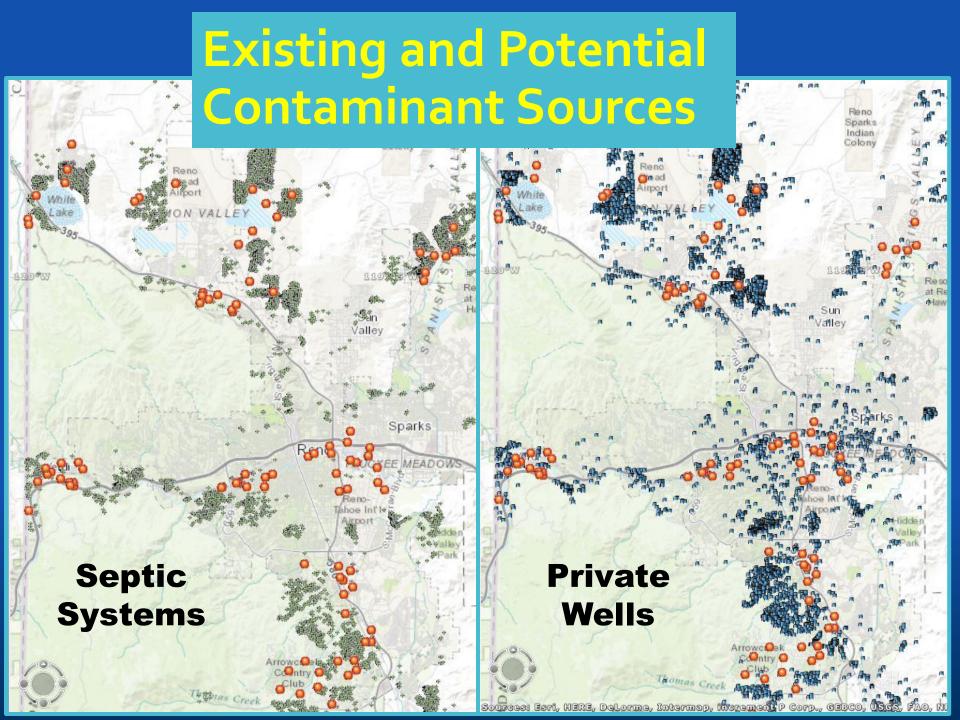
Source: City of Reno Master Plan Public Review Draft July 2017

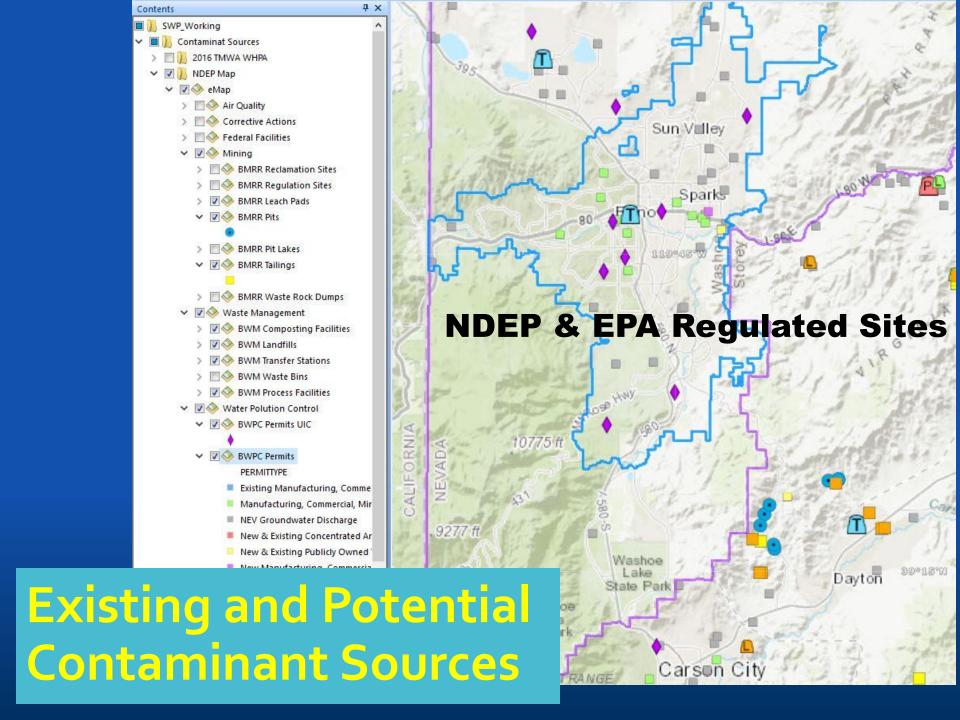




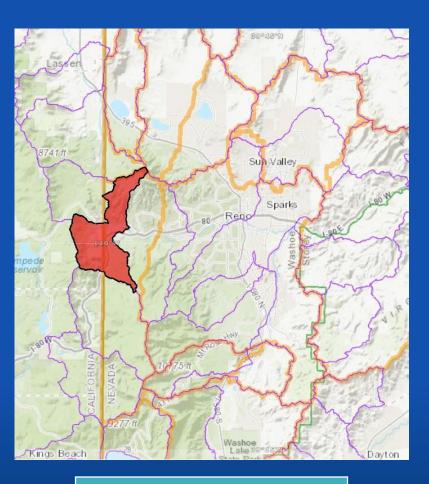








## Pulling it all Together



Watershed (HUC 12): Bull Ranch Crk. GW Basin (091): Truckee Canyon Seq.

Area: 16,988 acres

Jurisdiction (% of area in NV):

Washoe Co. 82% Reno 18%

USDA FS 42% Non Fed 58%

Towns: Verdi, Mogul

Public Water Systems: 10

Surface: Truckee River, 2 Springs

PWS Wells: 13

Special Consideration: 2 States

California 38%Nevada 62%

Verdi Area

# Watershed & Source Water Profile

#### **General Comment:**

Both sides of the Truckee R.

I-80 and Railroad corridor

Elevation: 8820 to 4760

#### Tributaries:

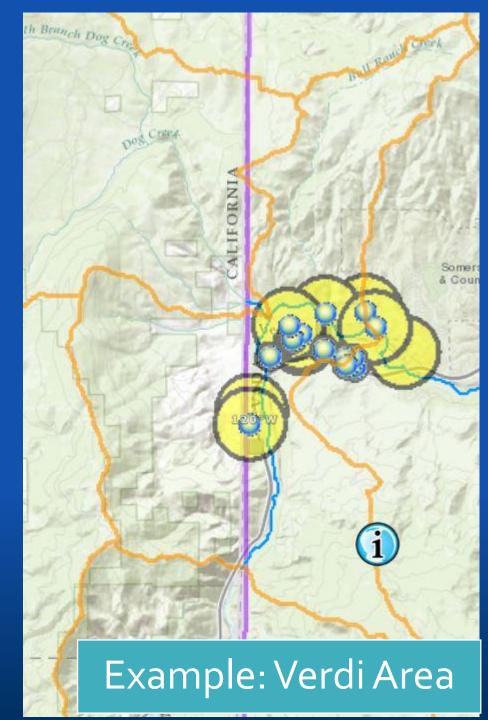
Bull Ranch Crk, Sunrise Crk Coldron, Steamboat, Hill Lane, Powerhouse ditches

**Drinking Water Protection Areas:** 

1200 & 3000 foot Well Buffers

#### Aquifers:

Deeper fractured rock Shallow alluvial



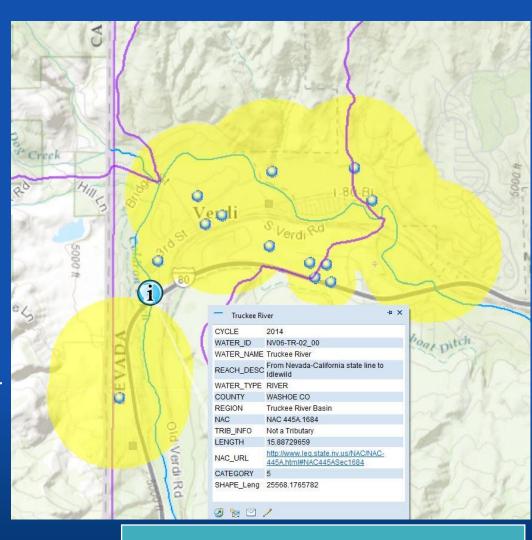
## Watershed & Source Water Profile

#### Water Use:

- Drinking Water
- GW Recharge
- Irrigation Diversions
- Wildlife, Recreation, Etc.

#### NDEP Water Quality Standards:

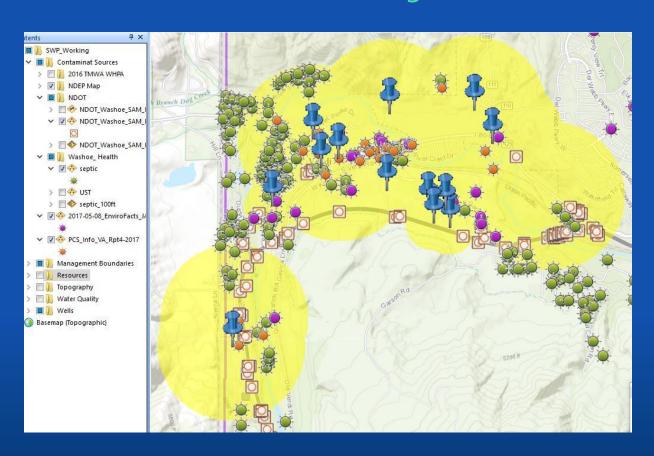
- In Stream WQ Standards
- TM and NDOT MS4 Storm Water Requirements
- TMWA Treatment
- PWS Drinking Water MCLs



Example: Verdi Area

## Water Quality Concerns

#### Existing and Potential Contaminant Sources:



- Septic Systems,
- Private Wells,
- USTs
- Highway
- Storm water
- Railroad
- EPA Database
- Other Facilities
- Spills

Verdi Area

## Plans, Policy, Programs

- Jurisdictions:
- MS<sub>4</sub>, TMWA, TMWRF, other PWS
- Reno, Washoe County
- WCHD, WRWC, TMRPA
- NDOT, State Lands, California
- US Forest Service

#### Other Stakeholders:

Businesses

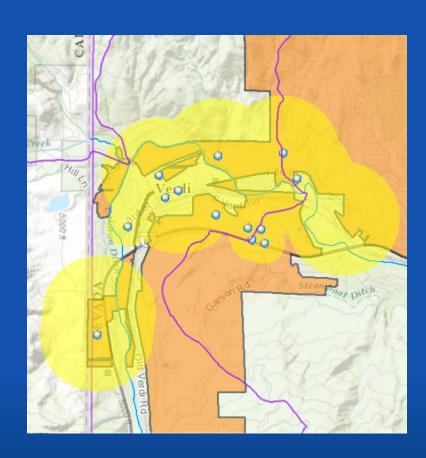
Community Organizations

KTMB, OTR, NLT

Truckee- Carson Conservation District

Truckee Watershed Council

NDOT, Railroad



Verdi Area

## Project Profile

- Digital GIS feature
- Prioritize
- Procure Funding (eligibility)
- Identify Partners
- Scheduling
- Implementation
- Identify measures of success

#### Example Project Title

	Overview
Site #	Alpha numeric to be listed on Flex Viewer
Priority#	Priority # developed under Part C of this form
Site Location Description	City, location i.e. City of Reno, Alum Creek Crossing under McCarran Bridge
Lat/Long	39°30'16"N 119°51'31"W
Primary Contact	Name and contact information,

	PART A: General Description
Groundwater Basin, #	i.e. Truckee Meadows (087)
Tributary Name; HUC 12 Name, #	i.e. Peavine Creek-Truckee River 160501020506 South side
Source Water Protection Area	SWPA Identifier
Problem Statement and Causes of Pollution <sup>(a, c)</sup>	<ul> <li>EPA Element a: Identify sources that need to be controlled and the extent of the sources</li> <li>EPA Element c: Describe the NPS management measures needed to achieve load reductions and the critical areas.</li> <li>a succinct description of the water quality problem addressed by the project</li> </ul>
Project Summary	A brief description of the project. State the water quality problem to be addressed by the project; the project goals and objectives; an overview of the project, and activities/methods proposed to address the problem.
Reference Plan Implementation or	Reference the documents or programs that pointed to this project



## **Questions?**



