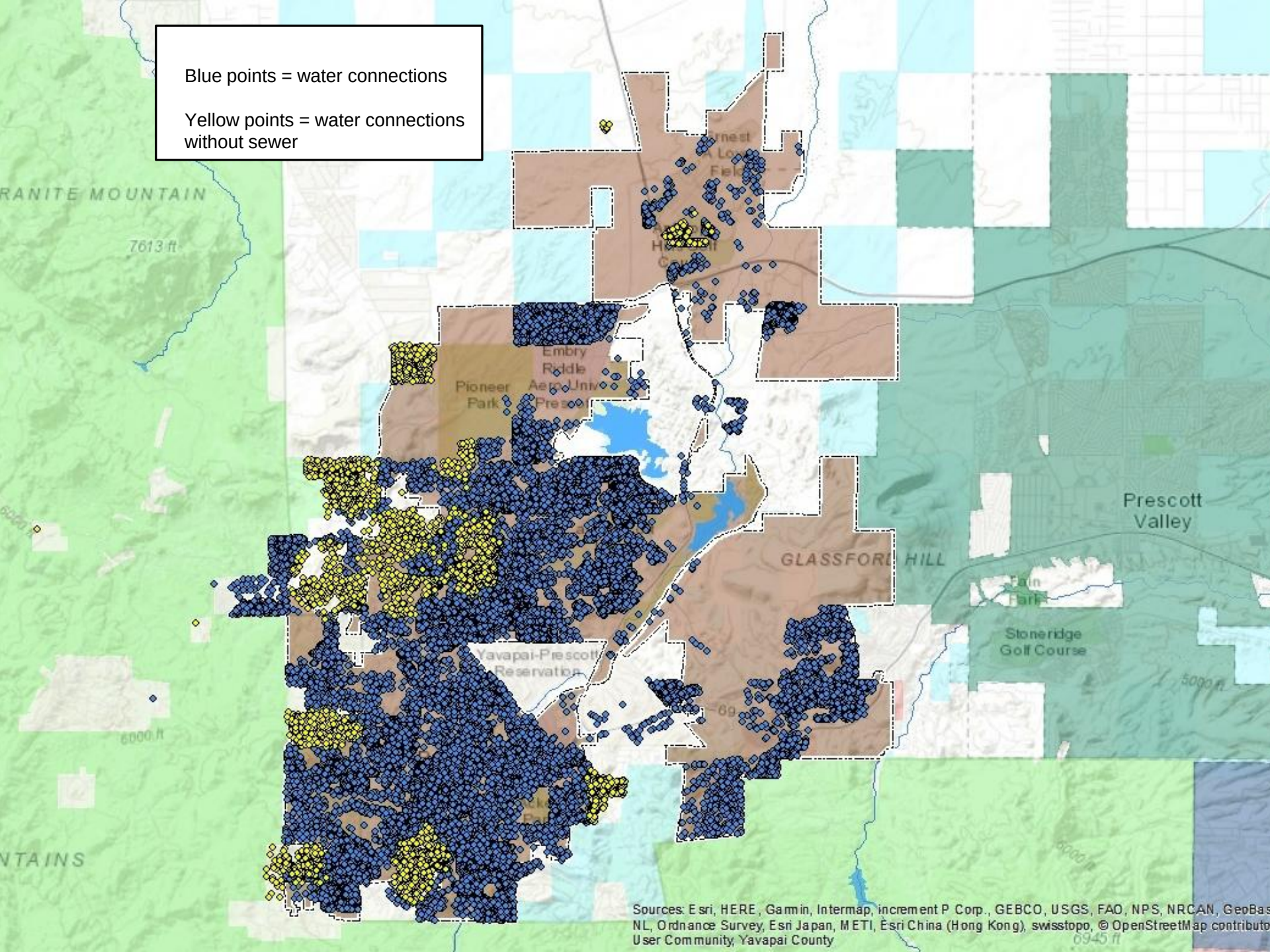
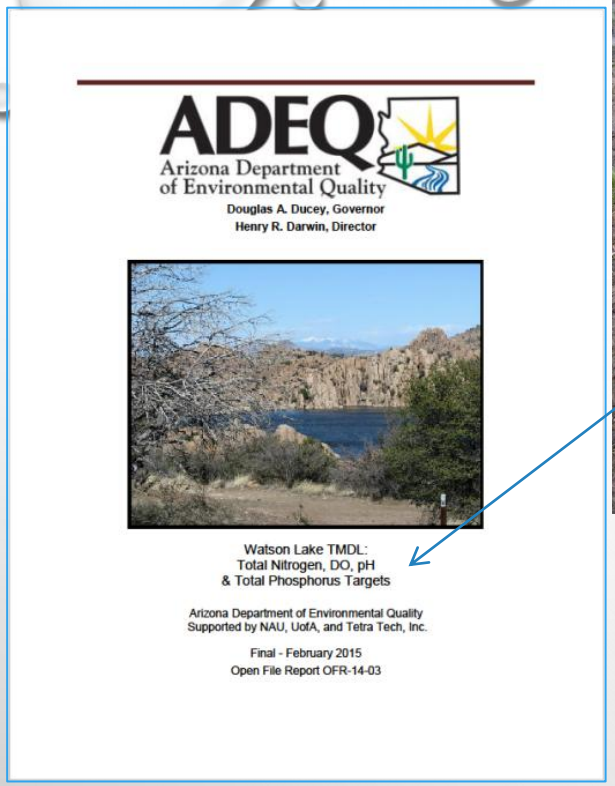
WHY IS CONNECTION TO SEWER IMPORTANT?

- Reclaimed water is an important part of the City’s water portfolio.
- Surface and ground water quality can be improved and protected.
- Ensure city investments are worthwhile.


Blue points = water connections
Yellow points = water connections without sewer
RANITE MOUNTAIN
7613 ft
Embry Riddle Aero Univ Prescott
Pioneer Park
GLASSFORD HILL
Prescott Valley
Stoneridge Golf Course
Yavapai-Prescott Reservation
5000 ft
6000 ft
NTAINS
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBas
NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributo
User Community, Yavapai County

WATER QUALITY

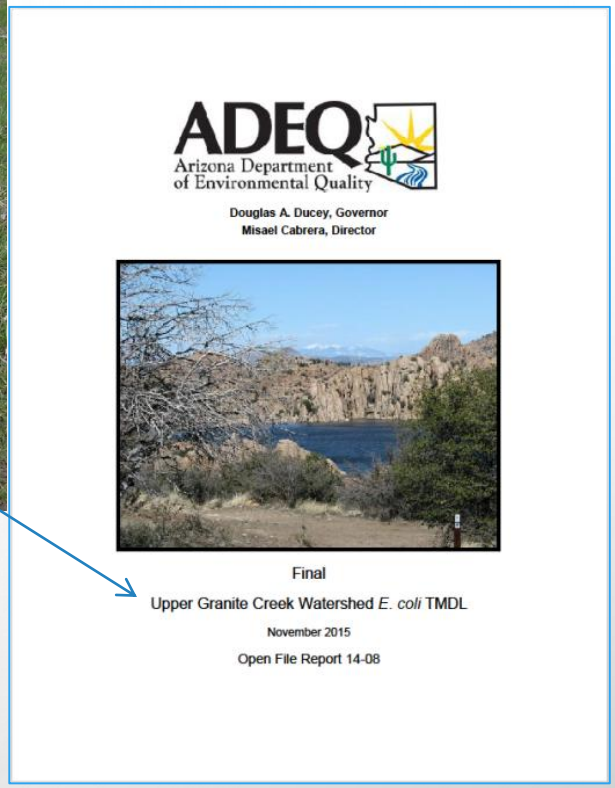

ADEQ
Arizona Department of Environmental Quality
Douglas A. Ducey, Governor
Henry R. Darwin, Director

Watson Lake TMDL:
Total Nitrogen, DO, pH
& Total Phosphorus Targets

Arizona Department of Environmental Quality
Supported by NAU, UofA, and Tetra Tech, Inc.

Final - February 2015
Open File Report OFR-14-03

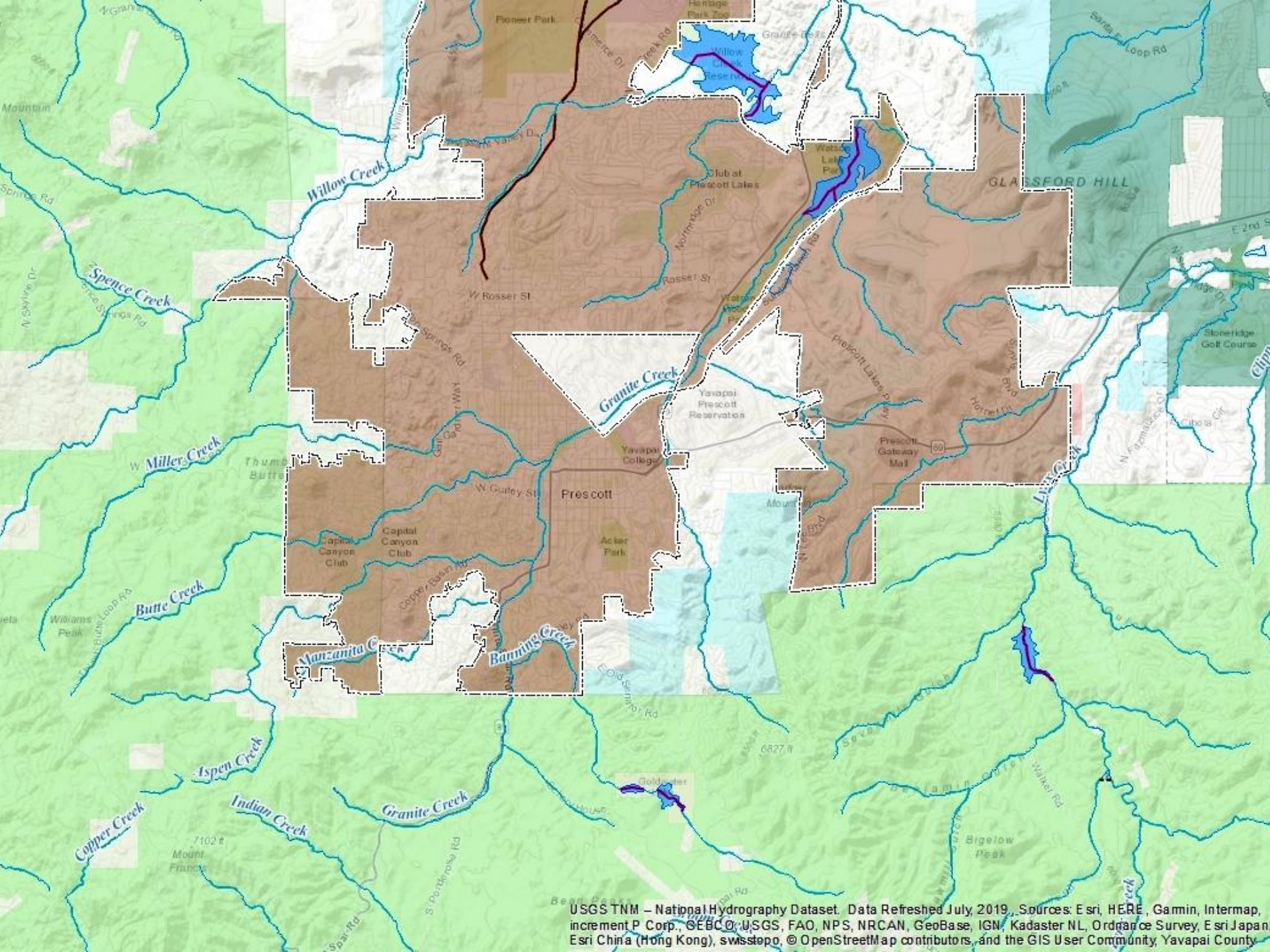
•Ammonia
(Willow Creek Reservoir)

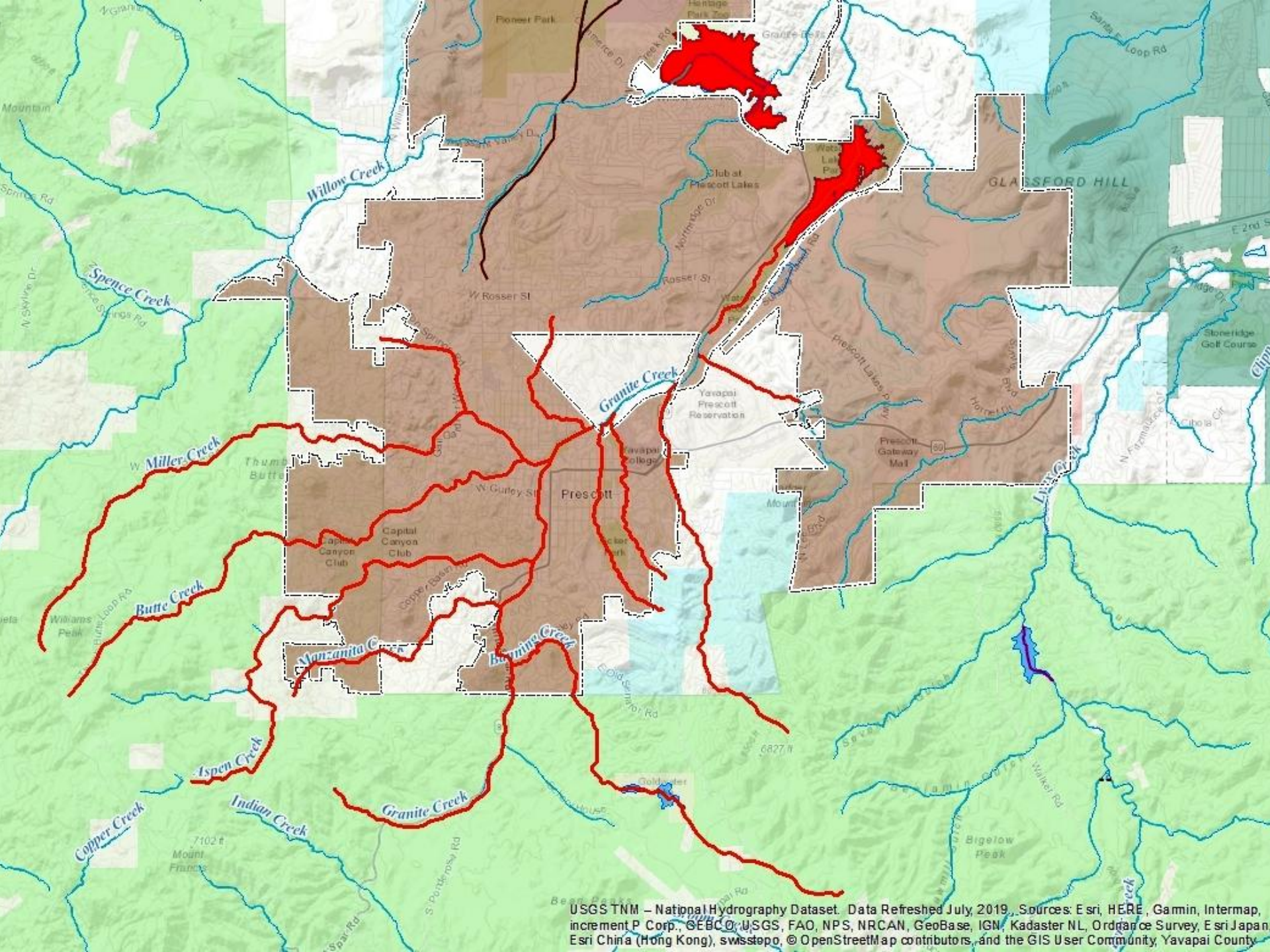

ADEQ
Arizona Department of Environmental Quality
Douglas A. Ducey, Governor
Misael Cabrera, Director

Final
Upper Granite Creek Watershed *E. coli* TMDL
November 2015
Open File Report 14-08

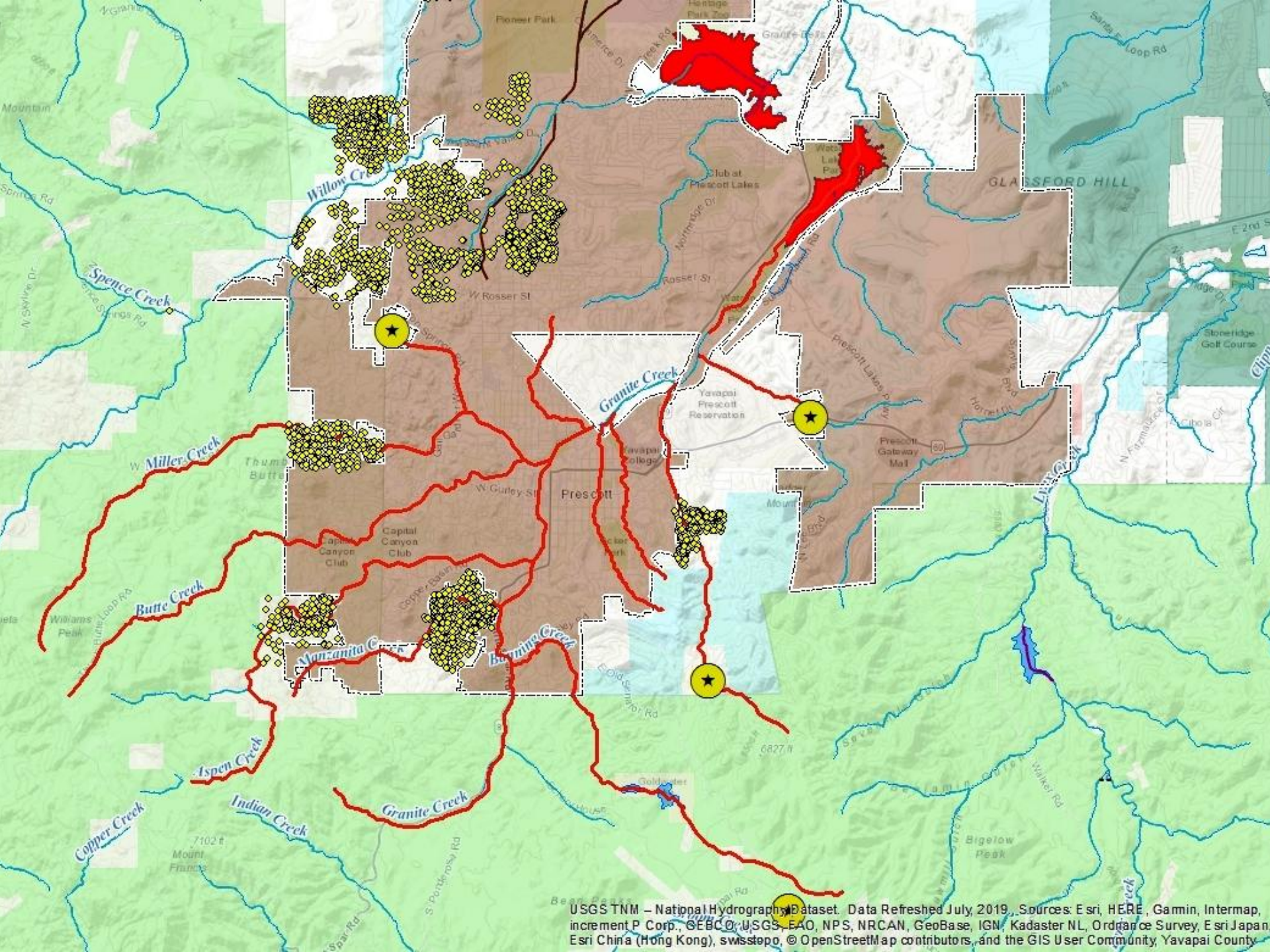
ADEQ continues to pursue **projects that remove sources** rather than treat their symptoms.

…potential sources of pollution were identified as: aging and degraded municipal sewer infrastructure; **failing or ill-maintained septic systems…**


Pioneer Park
Heritage Park Zoo
Willow Creek Reservoir
Granite Dells
Santa Fe Loop Rd
Mountain
Willow Creek
Club at Prescott Lakes
Watson Lake Park
GLASSFORD HILL
Spence Creek
W Rosser St
Rosser St
Granite Creek
Yavapai Prescott Reservation
Prescott Lakes Pkwy
Stoneridge Golf Course
Miller Creek
Yavapai College
Prescott Gateway Mall
Prescott
W Gurley St
Capital Canyon Club
Acker Park
Butte Creek
Williams Peak
Manzanita Creek
Banning Creek
Aspen Creek
Indian Creek
Granite Creek
Copper Creek
Mount Francis
Goldwater
Bigelow Peak
Walker Rd
Bean Peaks
USGS TNM – National Hydrography Dataset. Data Refreshed July, 2019. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community, Yavapai County



USGS TNM – National Hydrography Dataset. Data Refreshed July, 2019., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community, Yavapai County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SEPTIC SYSTEM IMPACTS

SEPTIC DISCHARGES A LOAD OF **19 LBS/YR OF NITRATE**

$$109\ Septic\ Systems \times \frac{19\ lbs\ Nitrogen}{1\ year} \times \frac{1\ year}{365\ days} = \frac{5.67\ lbs\ Nitrogen}{Day}$$

Ownership	Watershed Area (%)	Waste Load Allocation TN (lbs/day)
Unallocated WLA		0.80
City of Prescott	17.56	5.66
Yavapai County	10	1.42
Total WLA	49	7.88

Watson Lake TMDL, **"Permittees can demonstrate compliance with the WLA by** either direct sampling of outfall discharges or **demonstration that best management practices quantitatively reduce the discharge of pollutants"**

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Posts

Toxic algae blooms close Spruce Run Reservoir and 7 other N.J. lakes

Last year saw a record-setting number of harmful algal blooms in New Jersey that shut down several beaches.

1 hr ago + By Josh Axelrod | NJ Advance Media for NJ.com

UTAH HEALTH

Harmful algal bloom found in Virgin River believed to have killed dog

By Sahalie Donaldson | Jul 10, 2020, 10:10pm MDT

ELSEVIER

Contents lists available at ScienceDirect

Harmful Algae

journal homepage: www.elsevier.com/locate/hal

Research paper

Septic systems contribute to nutrient pollution and harmful algal blooms in the St. Lucie Estuary, Southeast Florida, USA

CrossMark

Brian E. Lapointe*, Laura W. Herren, Armelle L. Paule

Harbor Branch Oceanographic Institute at Florida Atlantic University, Marine Ecosystem Health Program, 5600 US 1 North, Fort Pierce, FL, 34946, USA

A Dog's Death In Wyoming Highlights The Dangers Of Toxic Algae Blooms

By MAGGIE MULLEN • DEC 9, 2019

PROGRAM: Mountain West News Bureau

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A sign warns visitors to Leazenby Lake, near Laramie, Wyoming, that its waters are contaminated by an algae bloom.

MAGGIE MULLEN

Originally published on November 22, 2019 6:16 pm

Leaky Septic Tanks Worsening Algae Blooms, Scientist Says

By DERICKA JAMES • JUL 18, 2018

Share
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Email

Governor Rick Scott declared a state of emergency earlier this month because of the blue-green algae blooms near Lake Okeechobee.

WGCS

Leaking septic tanks may be causing prolonged algae blooms like the one currently killing fish and wildlife near Lake Okeechobee.

npr wusf Public Media
Available anywhere

Arizona animal and nature experts warn about toxic algae that can kill dogs

Maria Hechanova
Posted Aug 14, 2019

"We have treated dogs suspected were exposed to blue-green algae toxicity," Ahwatukee veterinarian Travis Wodiske told Arizona's Family. That's the same algae that killed three dogs in North Carolina recently.

Two of the three dogs who died after exposure to toxic algae

Source: 3TV/CBS 5

PHOENIX (3TV/CBS 5) -- Three dogs in North Carolina died within five hours of being exposed to toxic algae after playing in a pond.

It's just one of several cases where dogs died after swimming in what's believed to be cyanobacteria.

audible
an amazon company

A best seller + free sleep tracks.

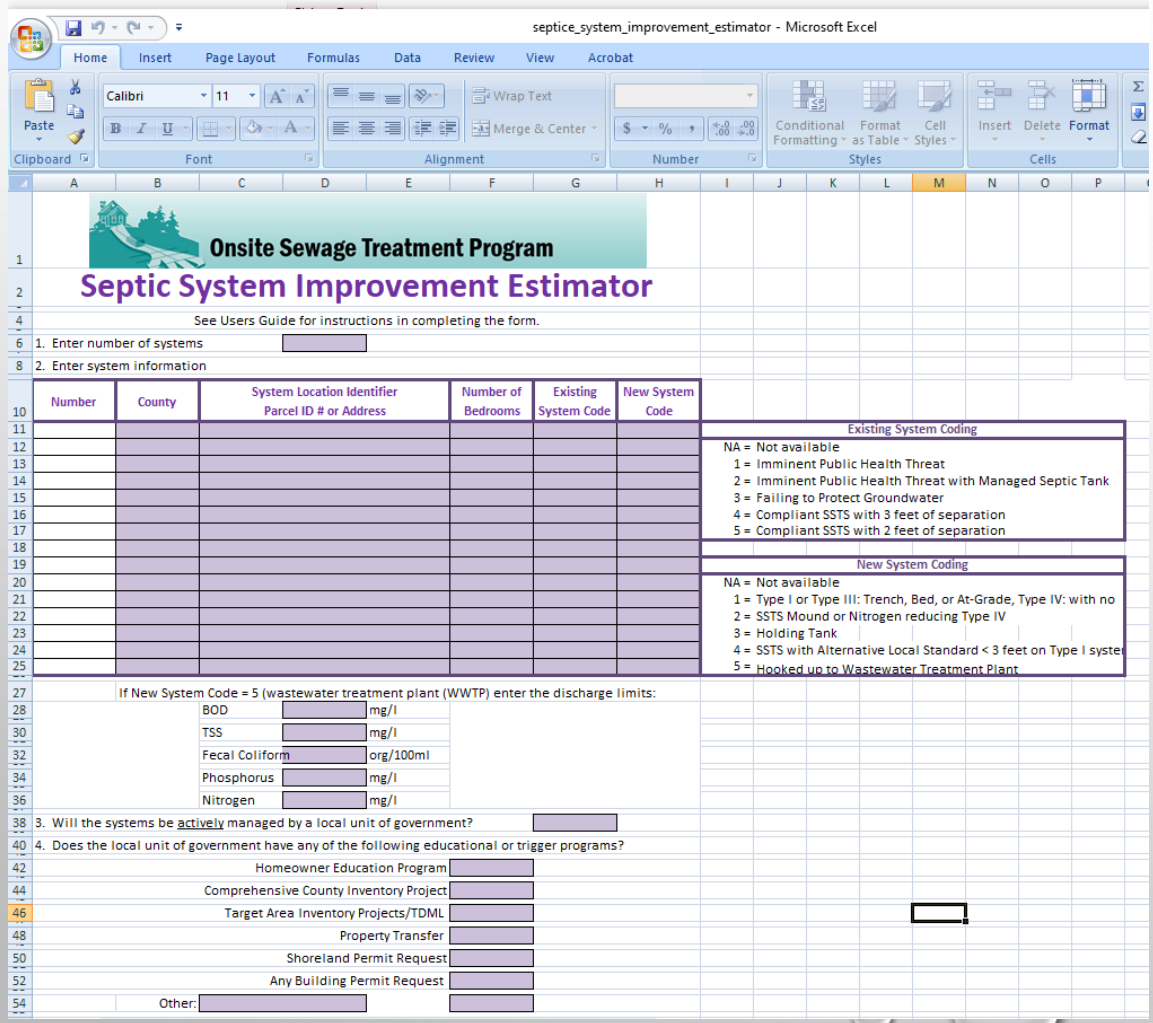
Start free trial

Most Popular

ARTICLES VIDEOS

TOOLS

For quantifying pollutant reduction benefits



Water Quality Research Group

CE-QUAL-W2 Hydrodynamic and Water Quality Model

Portland State University

CE-QUAL-W2 models basic eutrophication processes such as temperature-nutrient-algae-dissolved oxygen-organic matter and sediment relationships.

SUMMARY

This is an important environmental issue:

- Improves the health of creeks, lakes, and aquifers.
- Extends the life of City investments in clean water.
- Helps meet ADEQ & Clean Water Act obligations.
- Improves the Quality of Life for residents and visitors to our Creeks and Lakes.