

**City of Apache Junction  
Water Utilities Community  
Facilities District**

**Resolution No. 2019-001**

**February 19, 2019**

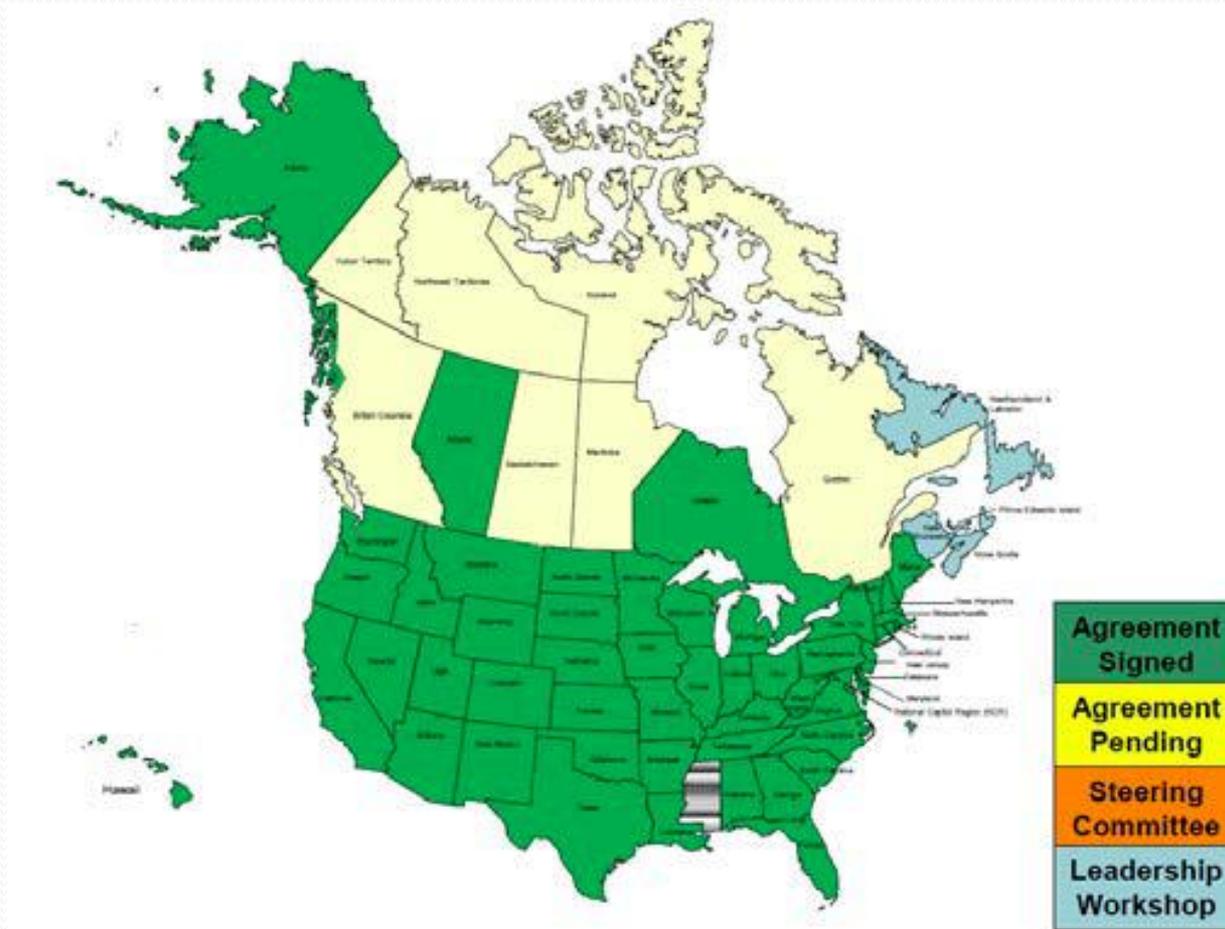
# Resolution No. 2019-001

- Authorizes entering into new Intergovernmental Agreement with the Arizona Water and Wastewater Agency Response Network (AzWARN)
- AzWARN's Mission
  - To support and promote statewide emergency preparedness, disaster response and mutual aid assistance for water and wastewater utilities during natural and human caused emergencies.

# Resolution No. 2019-001

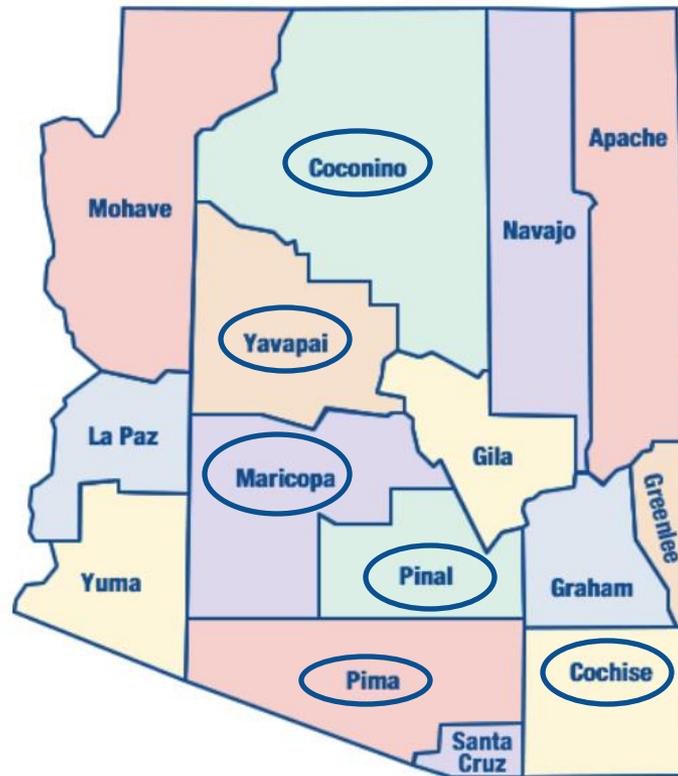
- Replaces 2015 agreement
- Provides mechanism ***to include private water and wastewater utilities memberships***
- Addresses manner of compensation for cooperative undertakings ahead of emergencies (when required)

# Resolution No. 2019-001



Flagstaff  
Camp Verde  
Clarkdale  
Avondale  
Goodyear  
Scottsdale  
Tempe  
CAP  
Goodyear  
Peoria  
Surprise  
Az Division of Emergency  
Management

## AzWARN Members



Phoenix  
Buckeye  
Gilbert  
Sierra Vista  
Metro Water Dist.  
Pima County  
RWRD  
City of Tucson  
Marana  
Sahuarita  
Oro Valley  
Apache Junction  
Water District

# Resolution No. 2019-001

- Nationwide program supported by AWWA , EPA, other national water sector programs, works with Arizona Department of Emergency & Military Affairs
- Types of emergency aid include
  - Personnel, equipment, services and supplies
- Agreement does not include water for drought relief
  - Drought is not considered an emergency

# Resolution No. 2019-001

- Membership is voluntary, may cancel within 20 days
  - Dues (\$250 per year) suggested
- Requires:
  - Current Intergovernmental Agreement (2015 IGA due to expire June 30, 2020)
  - Emergency Contact Information
    - Utility Director is typically authorized designee
  - Equipment Schedule

# Resolution No. 2019-001

- Recommendation is to enter into new Intergovernmental Agreement with the Arizona Water and Wastewater Agency Response Network (AzWARN)

**City of Apache Junction  
Water Utilities Community  
Facilities District**

**District Director's Report**

**February 19, 2019**

# OVERVIEW

- Salt River Project Intergovernmental Agreement update
- Colorado River Drought Contingency Plan
- Regional Water Recharge Project Update
- Water System Update
- Arizona Department of Environmental Quality Update

# Salt River Project (SRP) Intergovernmental Agreement (IGA)

- For emergency deliveries, CAP Canal outages or shortage
- Recovery of Long Term Storage Credits
- Will use SRP infrastructure (lease)

# Salt River Project (SRP) Intergovernmental Agreement (IGA)

- AJWD required to:
  - Obtain Recovery Well Permits for three SRP Wells
  - Lease three SRP Wells for recovery of LTSCs
  - Transport recovered water to Mesa Val Vista Plant

# SRP IGA

- Intergovernmental Agreement forwarded on December 7<sup>th</sup> by Salt River Project Water Contracts Attorney's Office.
- Final review comments returned to SRP on January 24<sup>th</sup>.

# ----SRP IGA ----

Enhances System Redundancy & Reliability



# Drought Contingency Plans Background

- Affect 7 Colorado River Basin States
  - Upper – Wyoming, Colorado, Utah, New Mexico
  - Lower – Arizona, California, Nevada



# Seven Colorado River Basin States

# Drought Contingency Plans Background

- Upper and Lower Basin States have different Drought contingency Plan (DCP) goals
- Upper DCP goals
  - Protect elevations at Lake Powell
  - Compliance with 1922 Colorado River Compact
  - Store conserved water in Upper Basin

# Drought Contingency Plans Background

- Lower Basin DCP goals
  - Require lower states to contribute more water to Lake Mead at predetermined elevations
  - Incentivize additional voluntary conservation
    - Water to be stored in Lake Mead

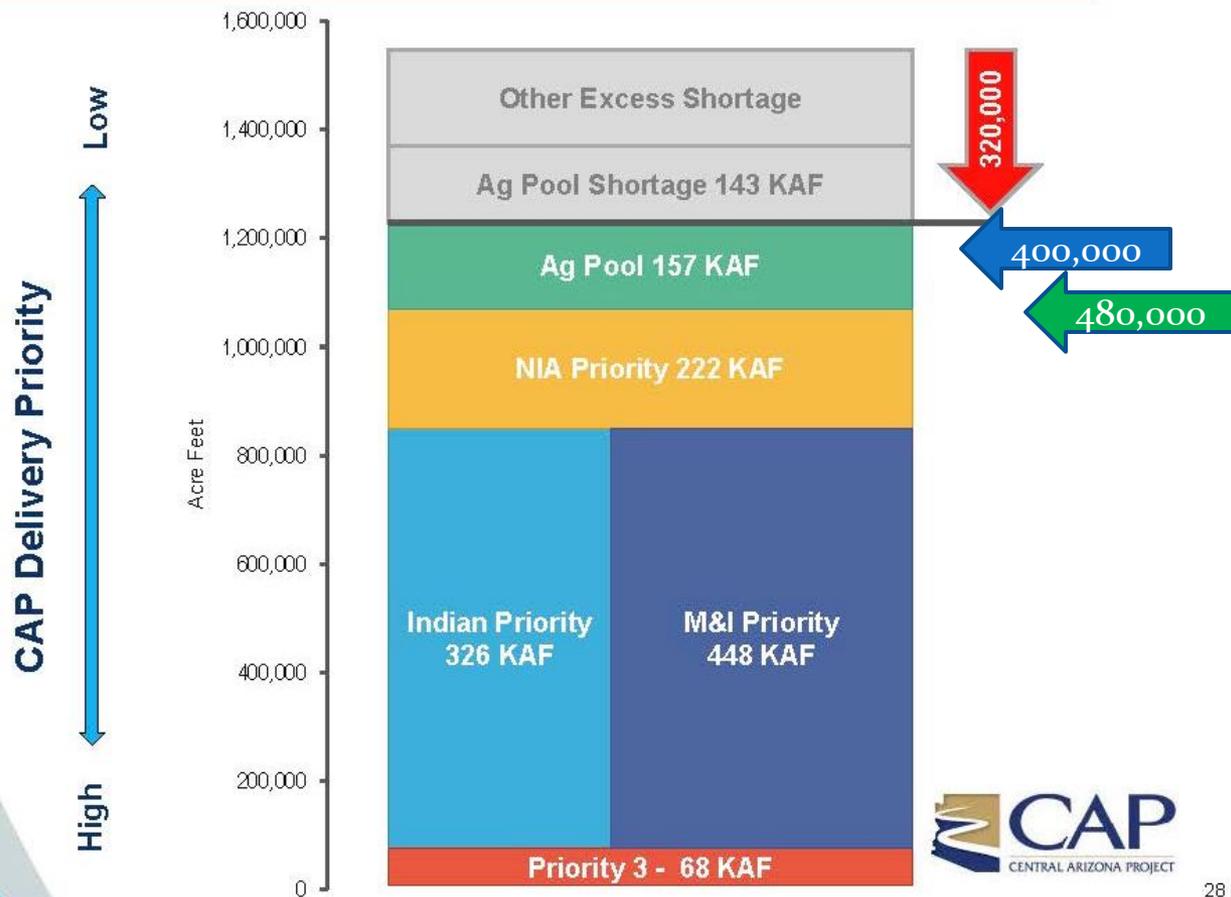
# Drought Contingency Plans Background

- Both DCPs add provisions to 2007 Interim Guidelines
  - Includes reductions in Arizona, Nevada & New Mexico
  - No reduction to California
  - No reductions to CAP M&I until Tier 3 Shortage
    - **Elevation 1025**

# Central Arizona Project Update

## Colorado River Shortages

### 2007 Projected Tier 1 Shortage Impact



- Levels**
- 1 - 1075'
  - 2 - 1050'
  - 3 - 1025'

# Central Arizona Project Update

## Colorado River Shortages

### 2007 Guidelines Shortage Sharing

- Arizona and Nevada share Lower Basin shortages under the 2007 Guidelines
- Mexico voluntarily agreed in Minute 319 to accept reductions in its deliveries at the same elevations

Lake Mead Elevation	Arizona Reduction	Nevada Reduction	Mexico Reduction
1075'	320,000 AF	13,000 AF	50,000 AF
1050'	400,000 AF	17,000 AF	70,000 AF
1025'	480,000 AF	20,000 AF	125,000 AF

- No additional reductions to California under '07 Guidelines

# Drought Contingency Plans Background

- Plan approved by Arizona on January 31, 2019
  - Includes legislation
  - Governor signed DCP legislation
- Commissioner expecting more work to be done, new deadline for AZ and CA – March 4, 2019

# Drought Contingency Plans Companion Agreement

- Follows execution of Upper & Lower DCPs
- Binds Upper and Lower Basin States Agreements
- Secretary of Interior will sign both DCPs
- Federal Legislation required to authorize signature

# Drought Contingency Plans

## Key Provisions of Draft Language

### DCP Legislative Package

1. Authorize state to exchange some existing credits between Active Management Areas, waive Long Term Storage Credits (LTSC) transfer fees.
2. Increase accrual of LTSCs from 50% to 95% in managed storage facilities, allow credits to count towards Assured Water Supply determinations, & extend LTSC's for effluent recharge beyond 2025.

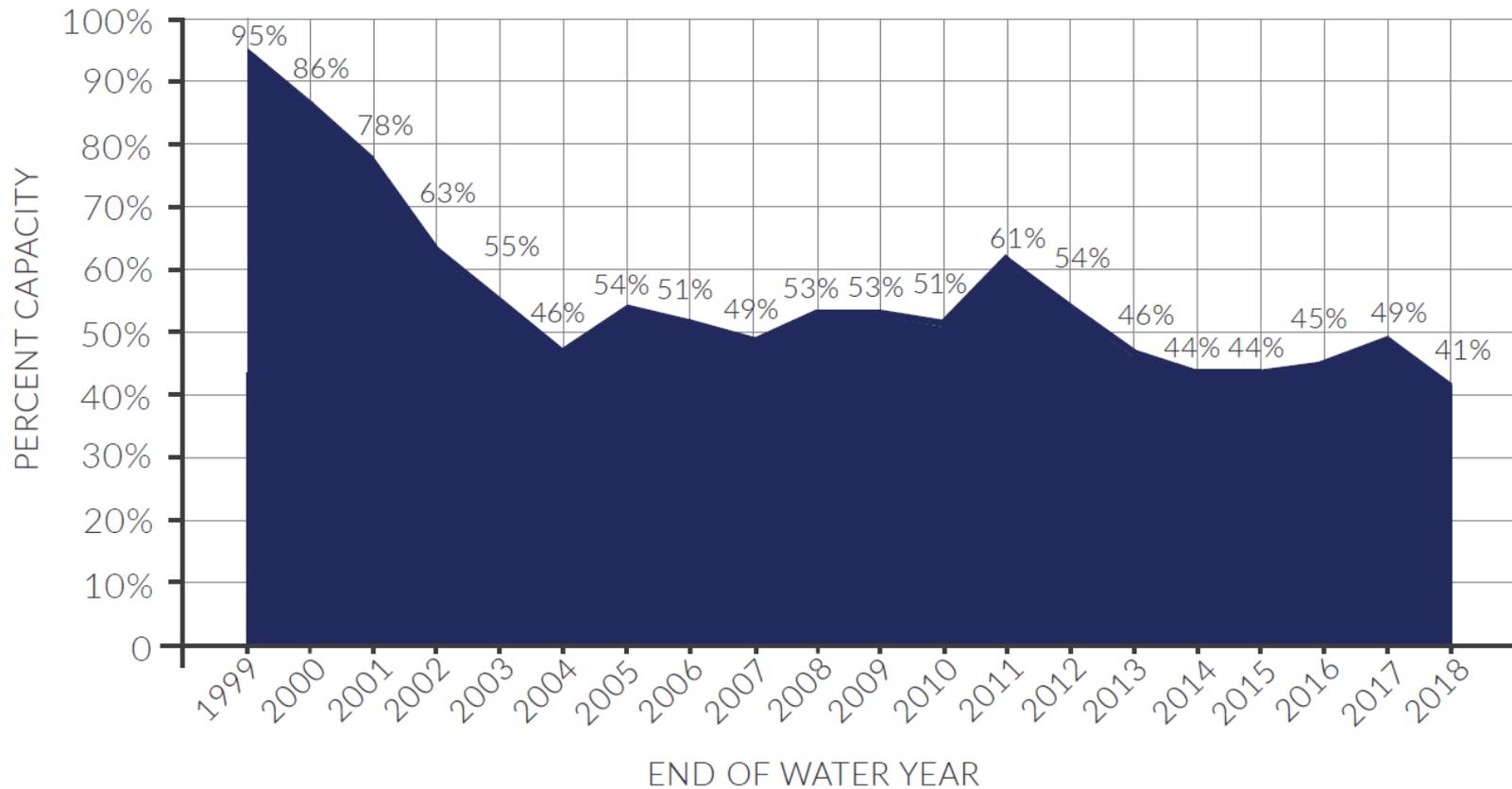
# Drought Contingency Plans

## Key Provisions of Draft Language

### DCP Legislative Package

3. Limited repeal of “Water Bud”
4. Groundwater & Irrigation Efficiency Project Fund – \$5M General Fund (GF) appropriation repurposing Pinal groundwater withdrawal fees to help fund groundwater infrastructure in Pinal AMA
5. Arizona System Conservation Fund - \$30M GF appropriation, gives ADWR authority as fiscal agent for NGO contributions

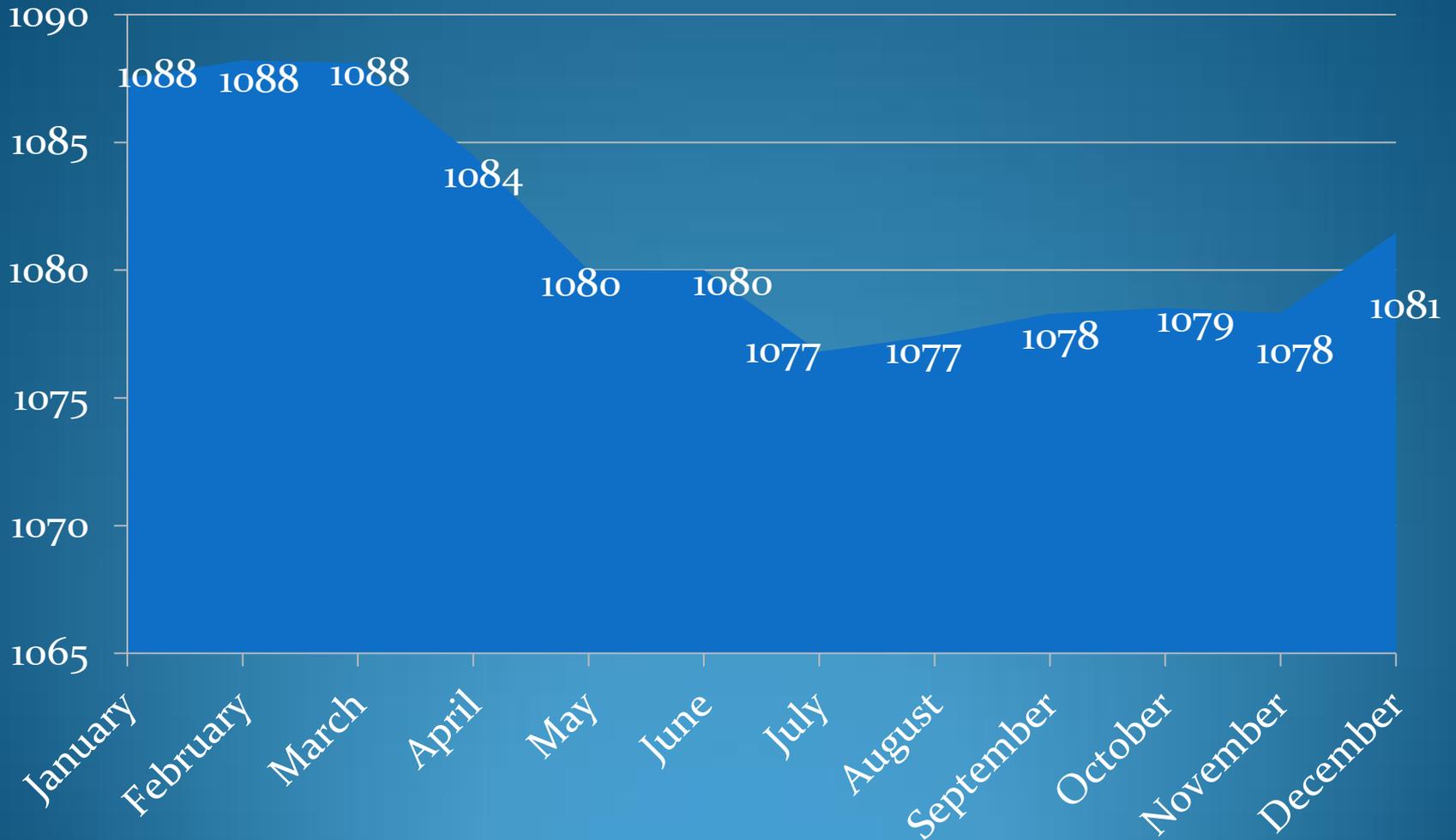
## LAKE POWELL AND LAKE MEAD PERCENT CAPACITY



Source: Arizona Lower Basin Drought Contingency Plan Steering Committee Meeting #6, October 10, 2018

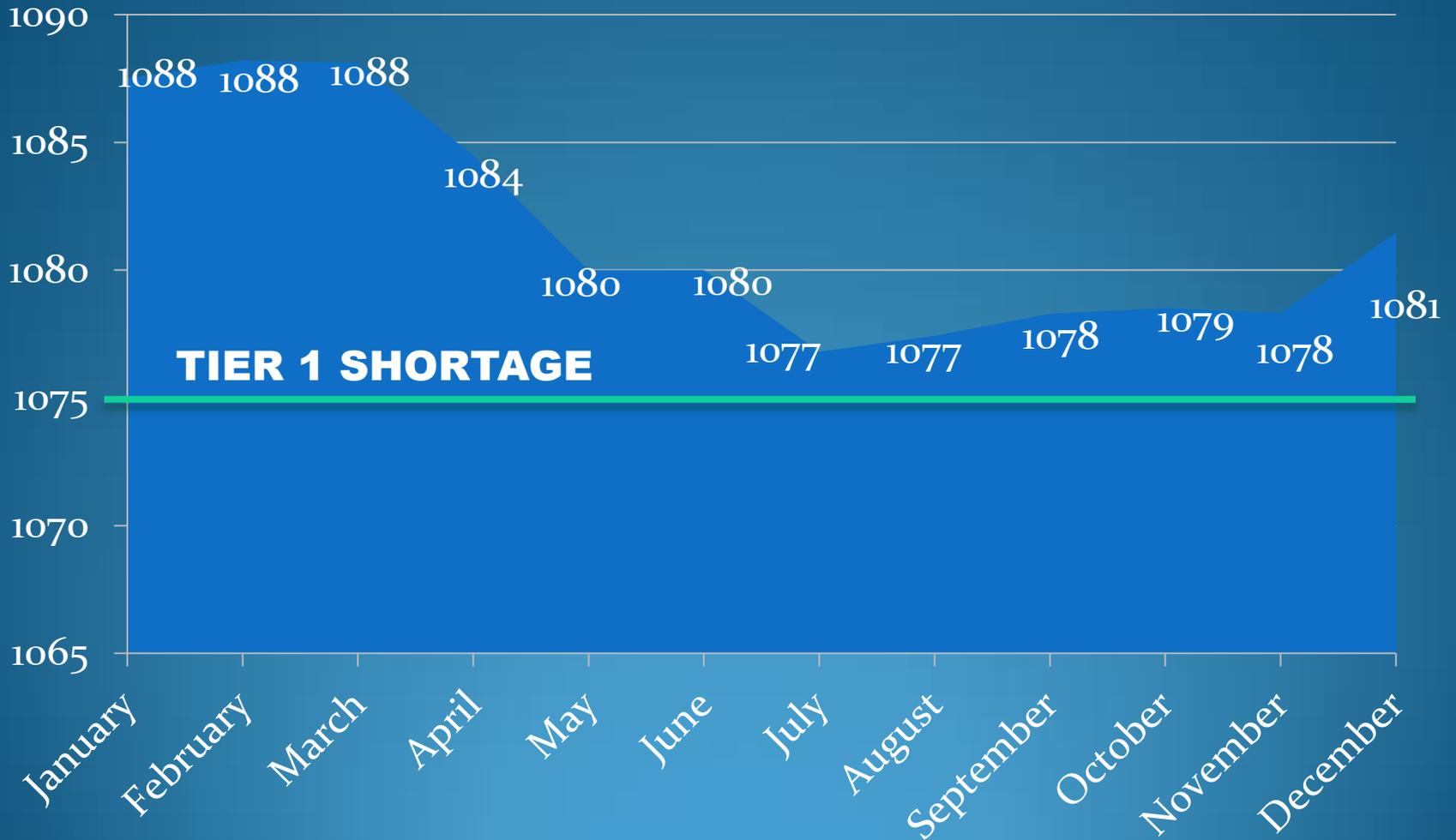
# Drought Contingency Plans

## Lake Mead 2018

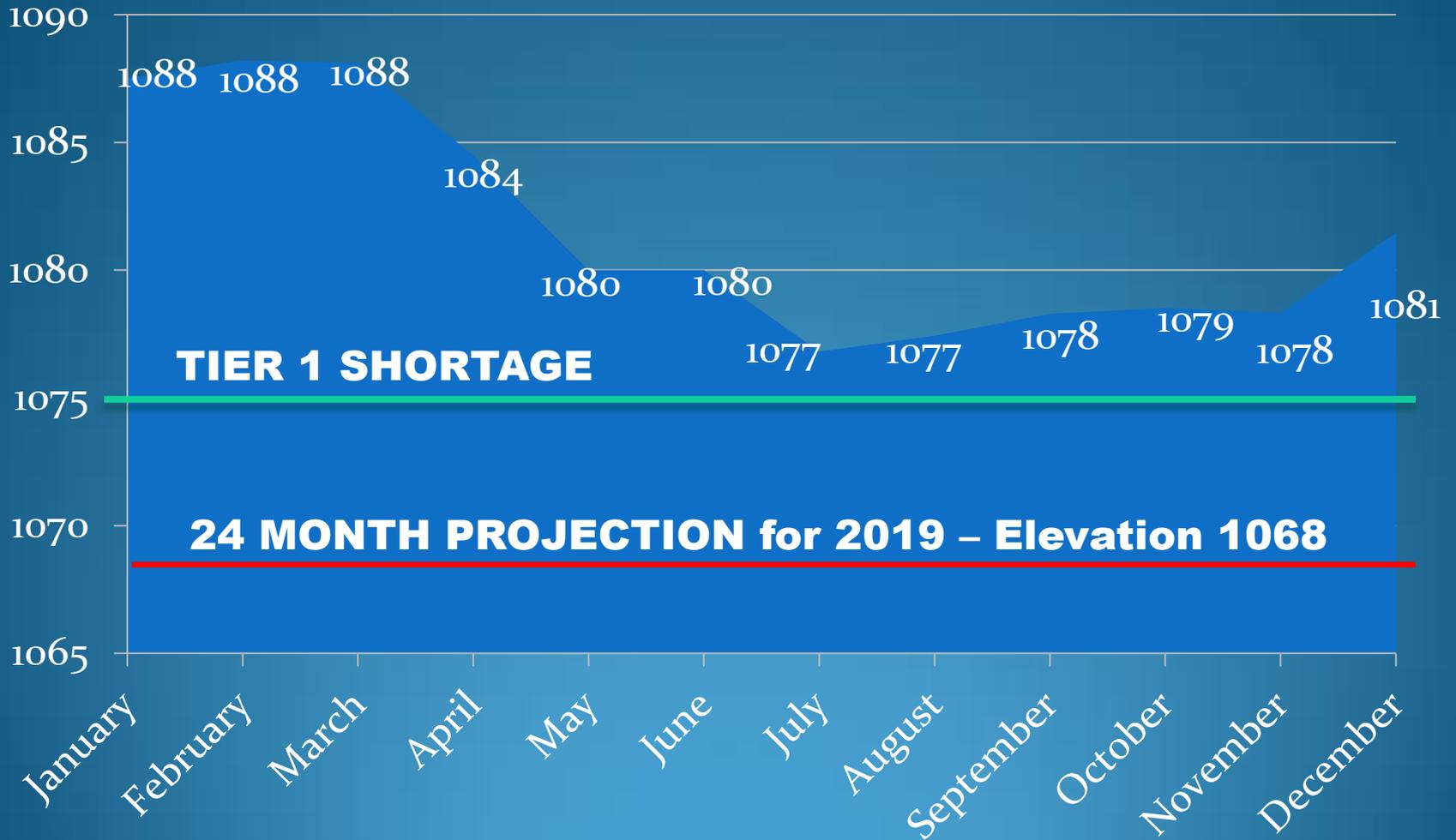


# Drought Contingency Plans

Lake Mead 2018



# Lake Mead 2018



# Central Arizona Project Update

## Colorado River Shortages

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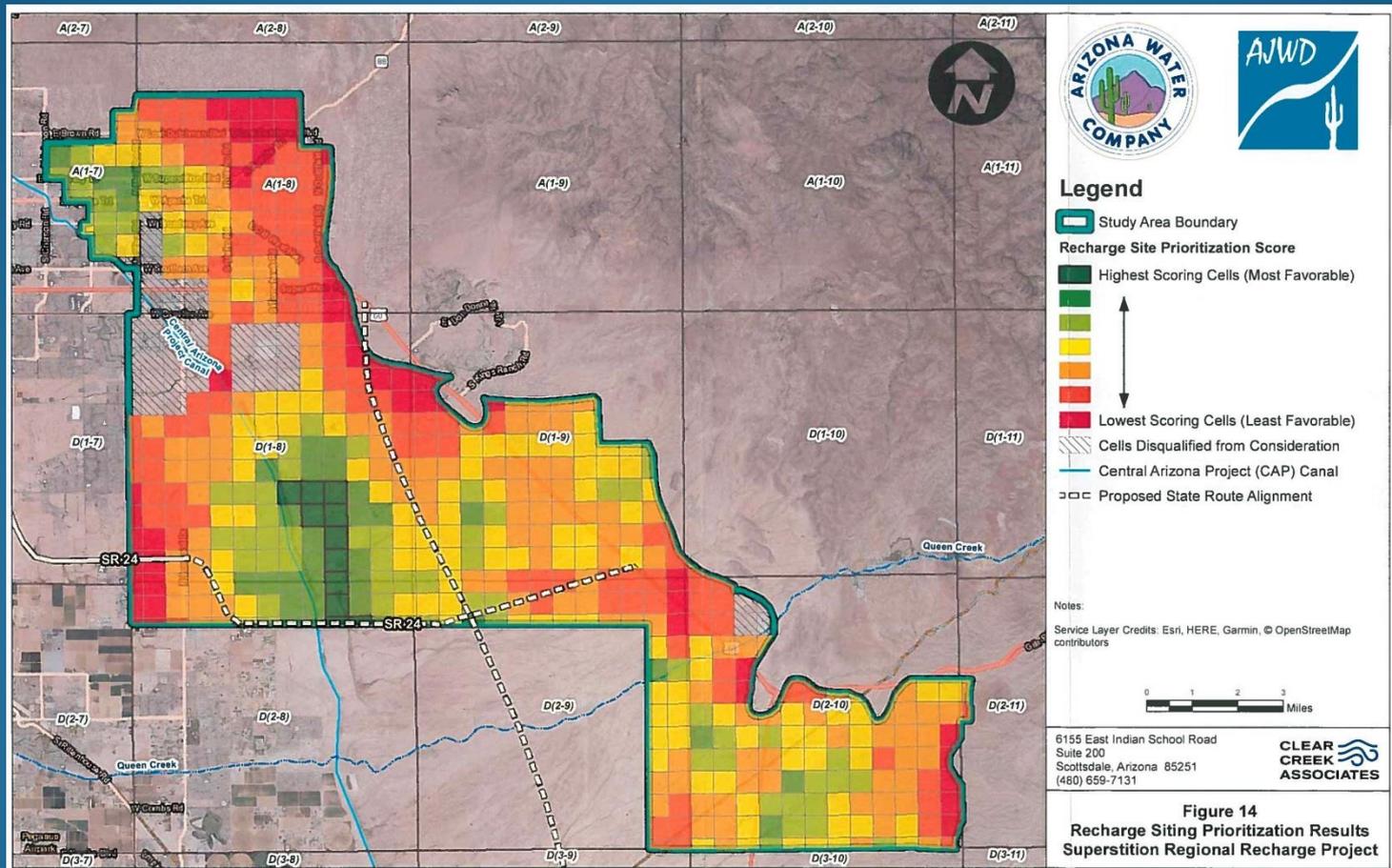
- No additional reductions to California under '07 Guidelines

# Drought Contingency Plans

## Latest News – New legislation

- Gila River Indian Community pulled ratification on February 14<sup>th</sup> - 500,000 acre feet through 2026
  - Would make up for unavailable water from Mead
  - Would go to Pinal County farmers
  - Issue with HB 2476 legislation – surface water rights (repeal - forfeit after 5 years of non-use)
- GRIC water enables AZ to leave water in Mead
  - Helps prevent, delay shortage declarations -----

# Superstition Regional Recharge Project



# Water System Update

- Booster Station 2 - 1 million gallon steel tank back in service
- Well 6 pulled and replaced
  - Beginning startup
- Superstition Area Water Plant running well
  - Produced 95% of the water for the year
- Booster Station 2 - generator is on order, delivery is scheduled for March
- Superstition Area Water Plant - Chlorine Dioxide Unit is on order, due for delivery at the end of April

# Arizona Department of Environmental Quality (ADEQ)

- Amended Drinking Water System Field Inspection Report – received 12/19/18
- Results from report – 53 items inspected, included wells, storage, boosters, plant
  - Potential deficiencies were noted, additional correspondence may be forthcoming

# Arizona Department of Environmental Quality (ADEQ)

## Observations & Potential Deficiencies

1. Locational running annual average at 03-A was 0.086 mg/l for fourth quarter of 2018
2. ADEQ & ADEQ performed demo of field device TTHM stripping unit
3. Well 6 currently out of service
4. Well 5 screen's openings too large
5. Concrete 1 million gallon tank has no drain, dirt at overflow

# Arizona Department of Environmental Quality (ADEQ)

## Observations & Potential Deficiencies

6. Drying beds not fenced
7. Surge tank at interconnect doesn't have pressure relief valve
8. Lead & copper plan not available (onsite)
9. ADEQ missing lead consumer notice for 2017
10. Inspector not able to verify ferric & sulfuric NSF

# Arizona Department of Environmental Quality (ADEQ)

## Recommendations

1. Remove dirt around 1  
MG tank's overflow  
(Well 6)



# Arizona Department of Environmental Quality (ADEQ)

## Recommendations

2. Install security fence around drying beds



# Arizona Department of Environmental Quality (ADEQ)

## **Independent Article - Online Records: ADEQ finds 2 'significant' deficiencies at Superstition Area Water Plant in Apache Junction**

- **NO DEFICIENCIES AT THE PLANT**
- The chemicals in question are used at Well 6, not the plant.
- Chemicals delivered in bulk, bill of lading delivered to District Administration office, NSF 60 stamped on it.

# Arizona Department of Environmental Quality (ADEQ)

## Independent Article

- The screen is nominal cost, on a vent at Well 5
  - **Not at water plant**
- Lead & copper plan was developed before the District was formed, an updated copy was provided to ADEQ on their form the day after inspection.
  - **The plan would not be kept in the field and was provided the next day**

# Arizona Department of Environmental Quality (ADEQ)

Independent Article - Online Records: ADEQ finds 2  
'significant' deficiencies at Superstition Area Water  
Plant in Apache Junction

- **NO DEFICIENCIES AT THE PLANT**
- **Drinking water was not compromised and is safe to drink.**

# Arizona Department of Environmental Quality (ADEQ)

## Total Trihalomethanes (TTHM)

- Disinfection by-products
  - Quarterly sampling requirements
  - Based on Locational Running Annual Average
  - Maximum allowable level = 0.080 mg/L
  - If there is an exceedance individuals with specific health concerns, are encouraged to consult their health care providers to determine their risk

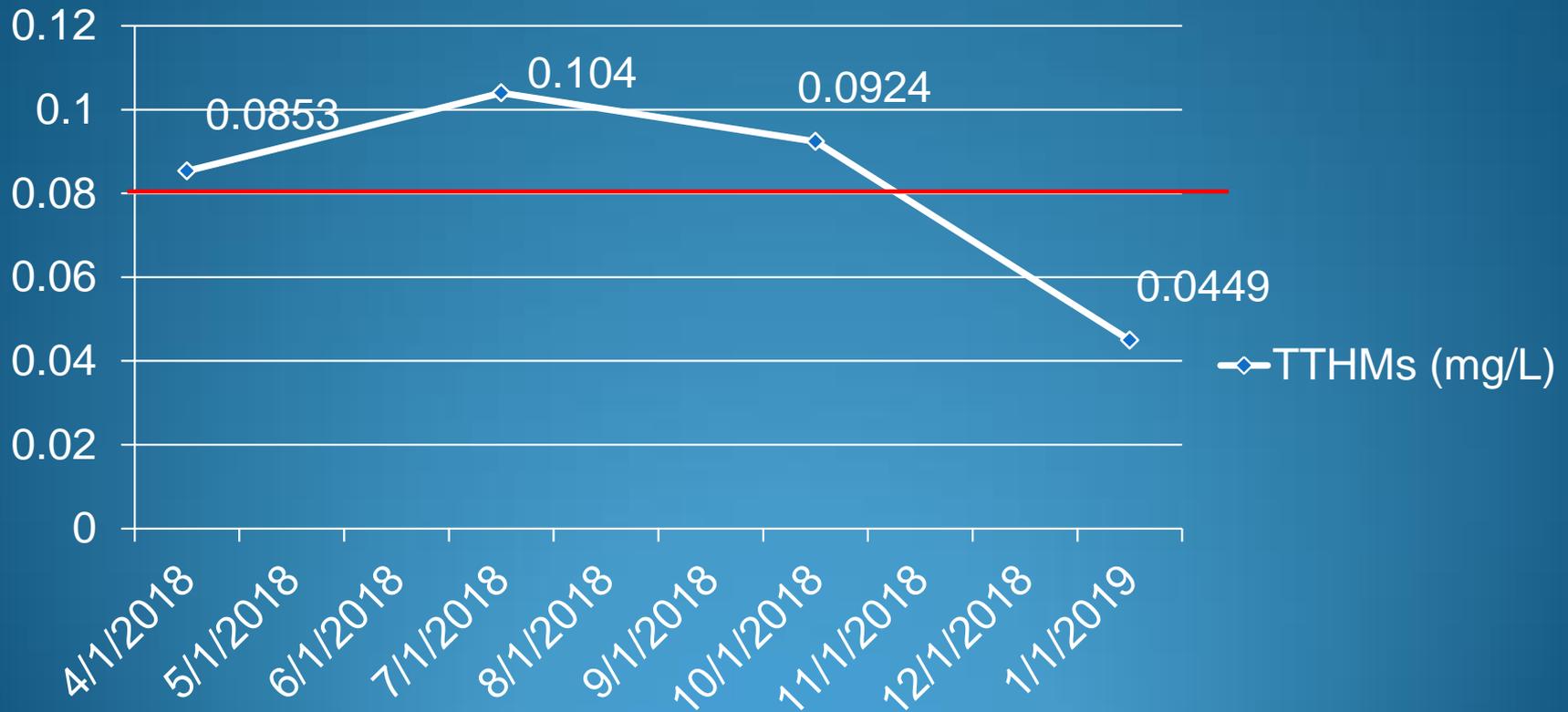
# Arizona Department of Environmental Quality (ADEQ)

## Notice of Violation Letter (NOV)

- Dated February 5<sup>th</sup>, issued by ADEQ
- Due to First-quarter sample results at Site 03-A
  - New sample result was 0.0449 parts per million (mg/L)
  - Locational Running Annual Average was 0.082 mg/L
  - Maximum allowable level is 0.080 mg/L
  - Exceeded by 0.002 mg/L

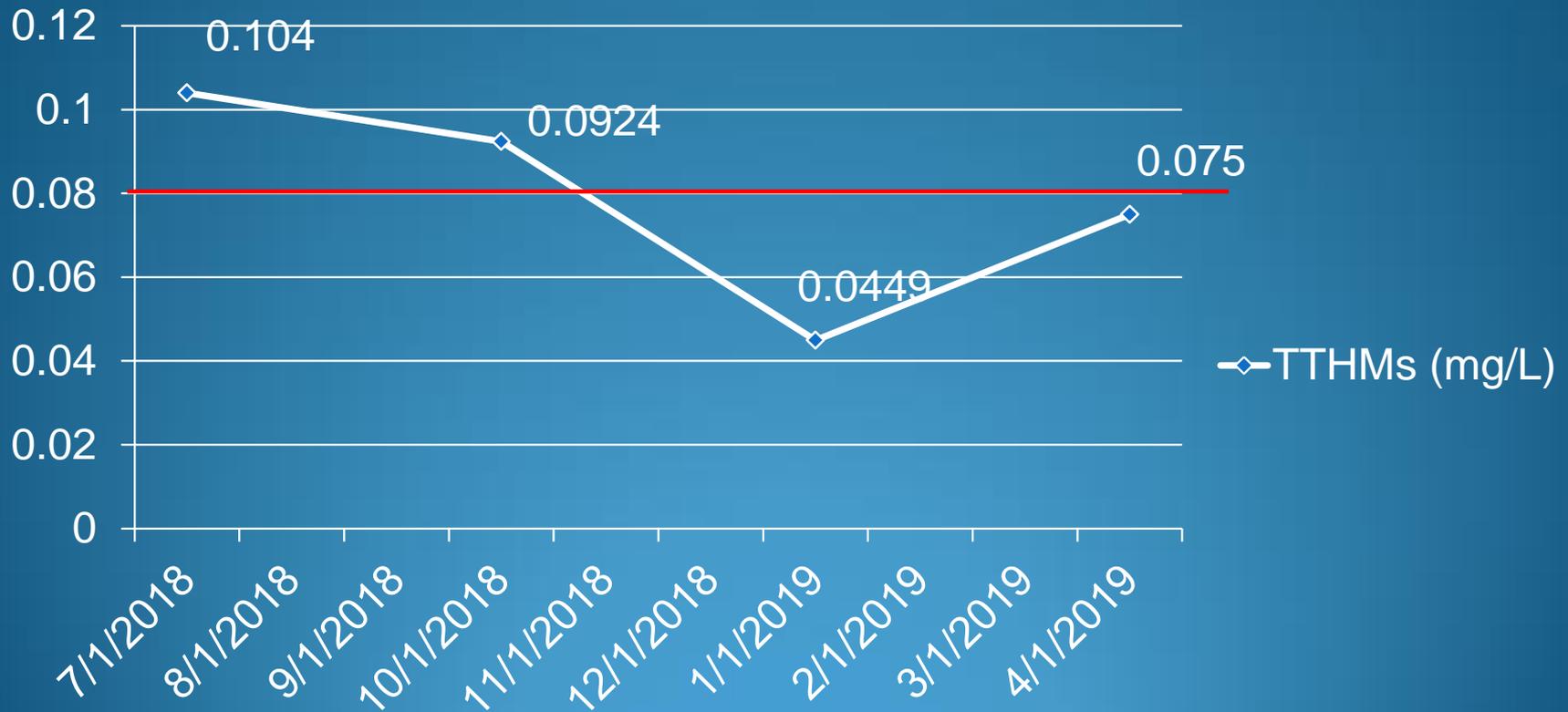
# Arizona Department of Environmental Quality (ADEQ)

Locational Running Annual Avg = 0.082



# Arizona Department of Environmental Quality (ADEQ)

Locational Running Annual Avg = 0.079



# Arizona Department of Environmental Quality (ADEQ)

## SAMPLES PROCESSED IN 2019

Chlorinated Pesticides & PCBs (GC)	EPA 525.2	Herbicides	Volatile Organic Compounds
Aroclor 1016	Alachlor	Glyphosate	1,1,1-Trichloroethane
Aroclor 1221	Aldrin		1,1,2-Trichloroethane
Aroclor 1232	Atrazine		1,1-Dichloroethene
Aroclor 1242	Benzo(a)pyrene	<b>Microbiology</b>	1,2,4-Trichlorobenzene
Aroclor 1248	Butachlor	E. coli	1,2-Dichlorobenzene
Aroclor 1254	Di(2-ethylhexyl)adipate	Total Coliforms	1,2-Dichloroethane
Aroclor 1260	Di(2-ethylhexyl)phthalate		1,2-Dichloropropane
Aroclor 1268	Dieldrin	<b>Semi-Volatile Organic Compounds</b>	1,4-Dichlorobenzene
Chlordane	Endosulfan	Dibromoacetic acid	Bromochloromethane
Endrin	gamma-BHC (lindane)	Halooacetic acid	Trichloromethane
gamma-BHC (Lindane)	Heptachlor	Methoxypropenoic acid	Carbon tetrachloride
Heptachlor	Heptachlor epoxide	monochloroacetic acid	Chlorobenzene
Heptachlor epoxide	Hexachlorobenzene	Trichloroacetic acid	Chloroform
Methoxychlor	Hexachlorocyclopentadiene		cis-1,2-Dichloroethylene
Toxaphene	Methoxychlor	<b>Semi-Volatile Organic Compounds</b>	Dibromochloromethane
	Metolachlor	3-Hydroxycarbofuran	Dichloromethane
	Metribuzin	Aldicarb	Ethylbenzene
<b>EPA 504.1</b>	Propachlor	Aldicarb sulfone	m,p-Xylene
1,2-Dibromo-3-chloropropane (D)	Simazine	Aldicarb sulfoxide	o-Xylene
1,2-Dibromoethane (EDB)		Carbaryl	Styrene
		Carbofuran	Tetrachloroethene
		Methomyl	Toluene
		Oxamyl	Total THMs
<b>EPA 515.3</b>	<b>EPA 548.1</b>	<b>Total Metals</b>	trans-1,2-Dichloroethene
2,4,5-TP (Silvex)	Endothall	Antimony	Trichloroethene
2,4-D		Arsenic	Vinyl chloride
Dalapon	<b>EPA 549.2</b>	Barium	Xylenes (total)
Dicamba	Diquat	Beryllium	
Dinoseb		Cadmium	
Pentachlorophenol	<b>EPA-5 16138-Tetras</b>	Chromium	
Picloram	Dioxin	Mercury	
		Nickel	
	<b>Inorganic Chemistry</b>	Selenium	
	Cyanide, Total	Sodium	
	Fluoride	Thallium	
	Nitrate as N		
	Nitrite as N		

106 types of samples

# Questions?

