



# WATER QUALITY ASSURANCE REVOLVING FUND (WQARF)

FY19 ANNUAL REPORT





## OUR MISSION AND VISION

The Arizona Department of Environmental Quality's (ADEQ's) mission is to protect and enhance public health and the unique environment in Arizona. To achieve this, ADEQ administers the state's environmental laws and delegated federal programs to prevent pollution of the air, water and land, and to ensure cleanup when pollution occurs.

ADEQ's vision is to be the No. 1 state in the nation in:

- Balanced, leading edge environmental protection through
- Technical and operational excellence, and
- Radical simplicity for customers and staff.

Cover photo portrays remediation progress at the former Hillside Mine site near Bagdad, Ariz., which was linked to contamination in Boulder Creek before being cleaned up. Left image is before cleanup. Right image is after cleanup.



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# EXECUTIVE SUMMARY

This report has been prepared for the Water Quality Assurance Revolving Fund (WQARF) as directed in Arizona Senate Bill 1520, Section 33 (Laws 2018, Chapter 276) and meets the requirements for both the September 1 and October 1 deadlines.

Created under the Environmental Quality Act of 1986, the Water Quality Assurance Revolving Fund (WQARF) program supports the Arizona Department of Environmental Quality (ADEQ) in identifying, prioritizing, assessing and resolving the threat of contaminants in groundwater and overlying soil at hazardous waste sites in the state. In 1997, the WQARF program underwent significant legislative reform that included a change from joint and several to proportionate liability; ensured annual funding of \$15 million to pay for the orphan share created from the new proportionate liability; enhanced community involvement; flexibility of cleanup methods and goals; and site prioritization.

**36**

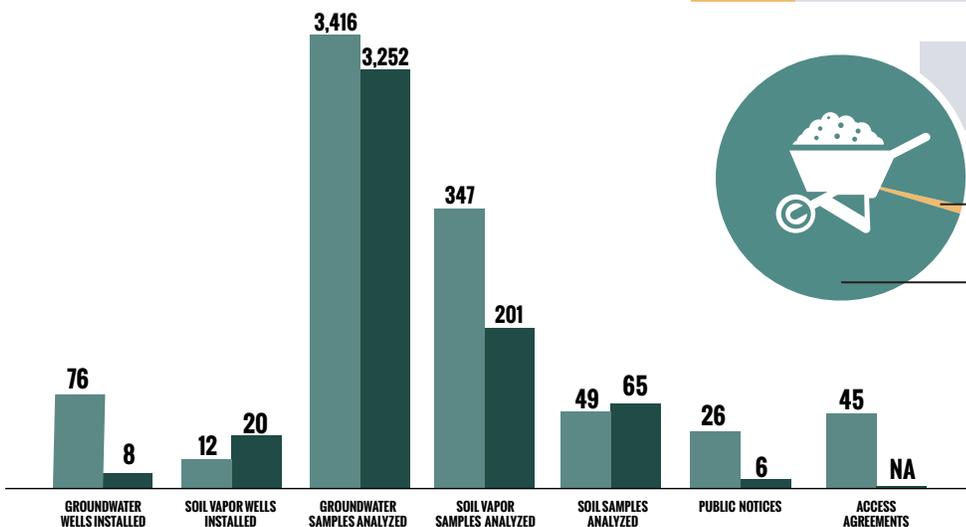
*of the state's worst hazardous waste sites are being cleaned up through WQARF*

**38**

*additional sites are being monitored or evaluated for WQARF listing*

## FY19 SUPPORTING ACTIVITIES FOR STATE AND FEDERAL SITES

WQARF  
FEDERAL

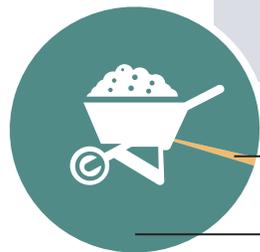


## FY19 MISSION OUTCOMES (OVERALL TOTALS)



**11.8 BILLION**

*Gallons of contaminated groundwater treated*



**MASS REMOVED**

**8,918** pounds of volatile organic compounds

**1,078,293** pounds of metals and other hazardous wastes

## FY19 MILESTONES

**6** | Remedial Investigations Completed

**3** | Feasibility Studies Completed

**2** | Proposed Remedial Action Plans Completed

**4** | Remedial Actions at Mining Sites Completed through a Partnership between WQARF and the ADEQ Water Quality Division

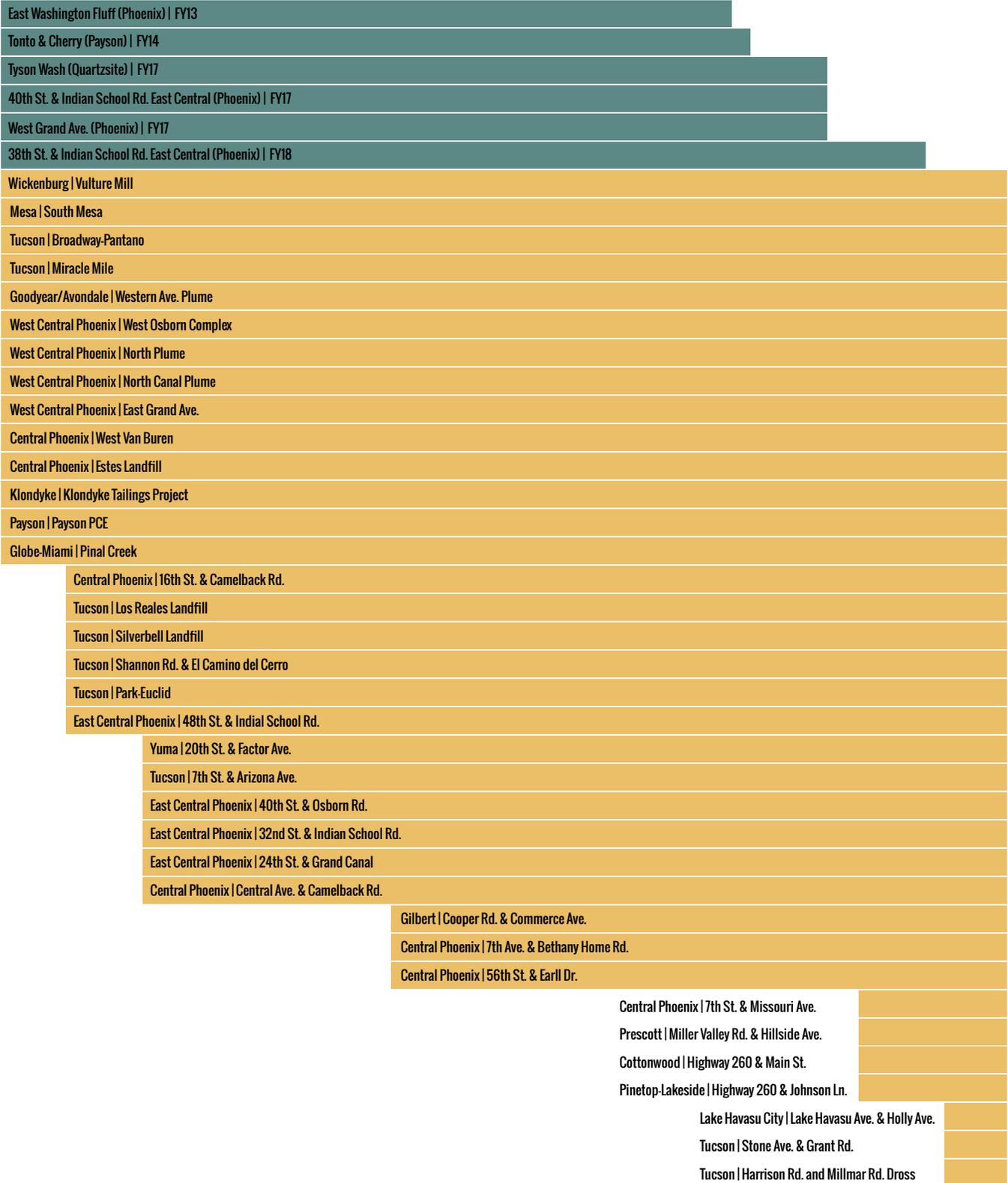
## FY20 GOALS

*During Operation and Maintenance, WQARF is increasingly focused on optimizing remedy effectiveness and improving technical performance to reduce costs and accelerate cleanup.*

# STATE WQARF PROGRAM TIMELINE

**REMOVED**

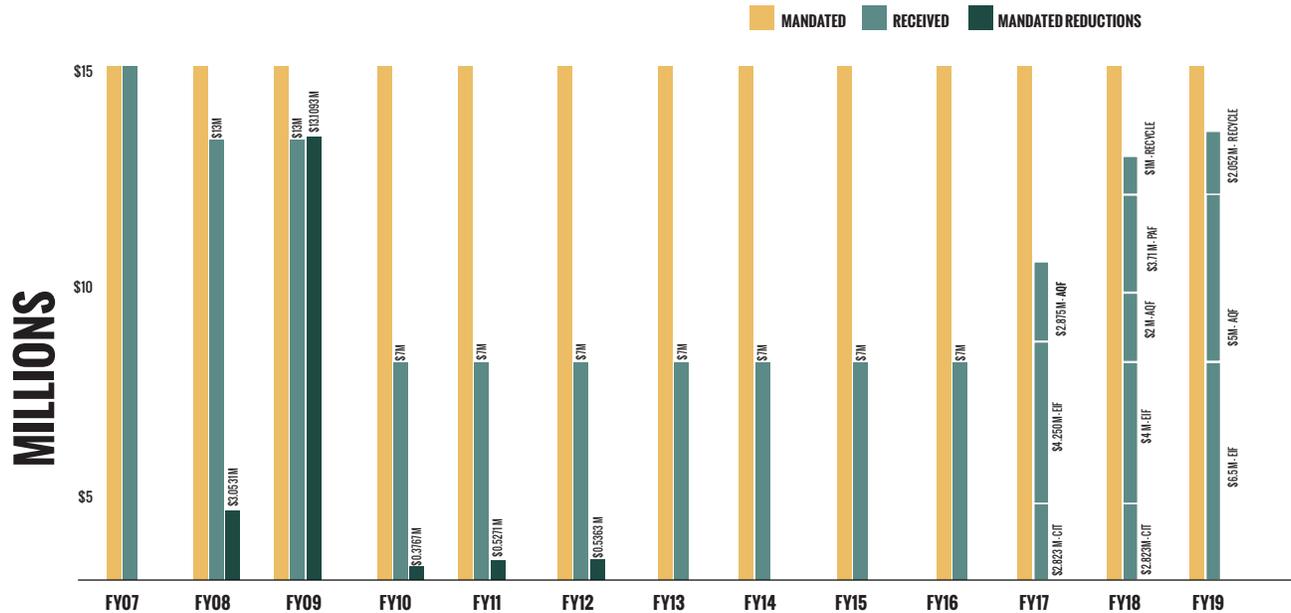
**ACTIVE**



# WQARF FUNDING

Arizona Revised Statutes (A.R.S.) §49-282(B) has specified a cap of \$18 million annually with \$15 million of that coming from Corporate Income Tax (CIT) revenue. While statutorily mandated, funding was reduced to \$0 for FY19. ADEQ supplemented funding through Agency cost savings from the Emissions Inspection Fund (EIF), Air Quality Fund (AQF) and Recycling Fund (RECYCLE). For FY20, ADEQ will supplement funding through the EIF, AQF, RECYCLE, Permit Administration Fund (PAF), and Underground Storage Tank Revolving Fund (UST).

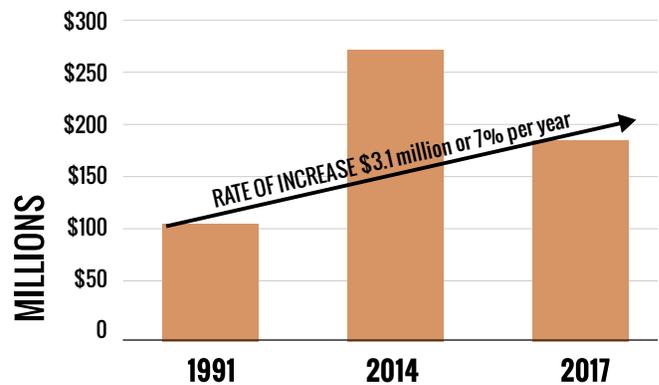
## CORPORATE INCOME TAX REVENUE COMPARISON FY07 - FY19



## FUNDS ARE USED FOR:

- WQARF Registry | Conducting remedial actions at sites currently in the WQARF program
- 3rd Party Work | Oversight of privately funded cleanup efforts at WQARF Registry sites
- Cross-Program Remedial Action | Cleanup of selected sites and/or water quality data gathered for projects led by other programs within ADEQ
- Emergency Response | Immediate action to address confirmed contamination or threat of contamination that could impact public health and/or the environment
- Agency Partners | Work conducted by other State agencies
- Federal Oversight | Review and oversight of work done by the Environmental Protection Agency under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) 104
- Voluntary Remediation Program | Oversight of voluntary cleanup funded by property owners and other interested parties

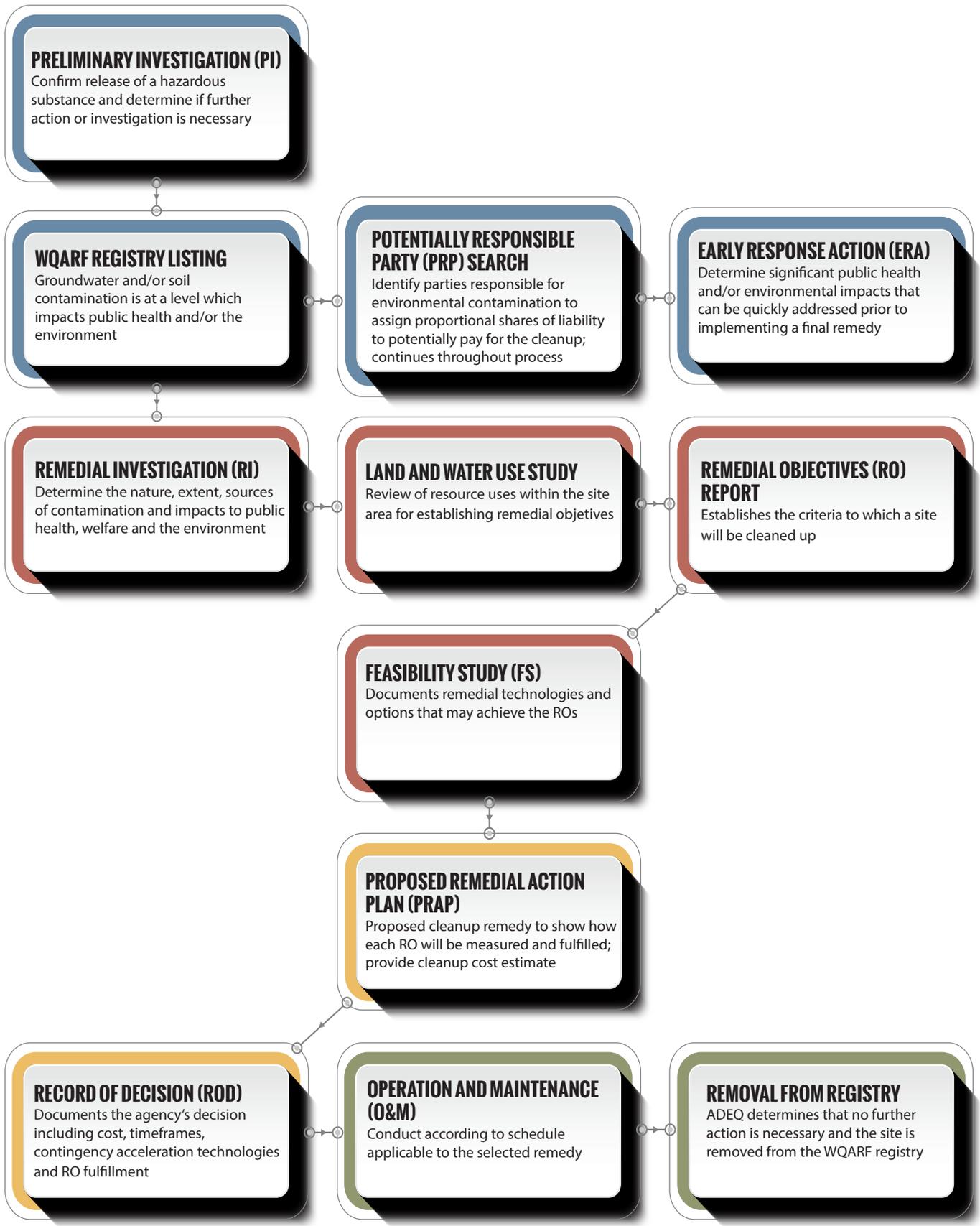
## ORPHAN SHARE ESTIMATE BASED ON MODELED TOTAL WQARF LIABILITY



WQARF's orphan share liability estimate was modeled using Remedial Action Cost Engineering Requirements (RACER®) software, supported by AECOM Asset Management Division. Orphan shares mean there is (are) no responsible party (parties) identified to fund their allocated share of cleanup, and State funds may be needed to address contamination.

WQARF's orphan share increased from 35 percent of the total liability in 1991 to 62.5 percent in 2014. In 2017, it was estimated at 58 percent. This means the State remains liable for potentially over half of the cleanup currently needed due to a lack of a 3rd party in place to address the contamination.

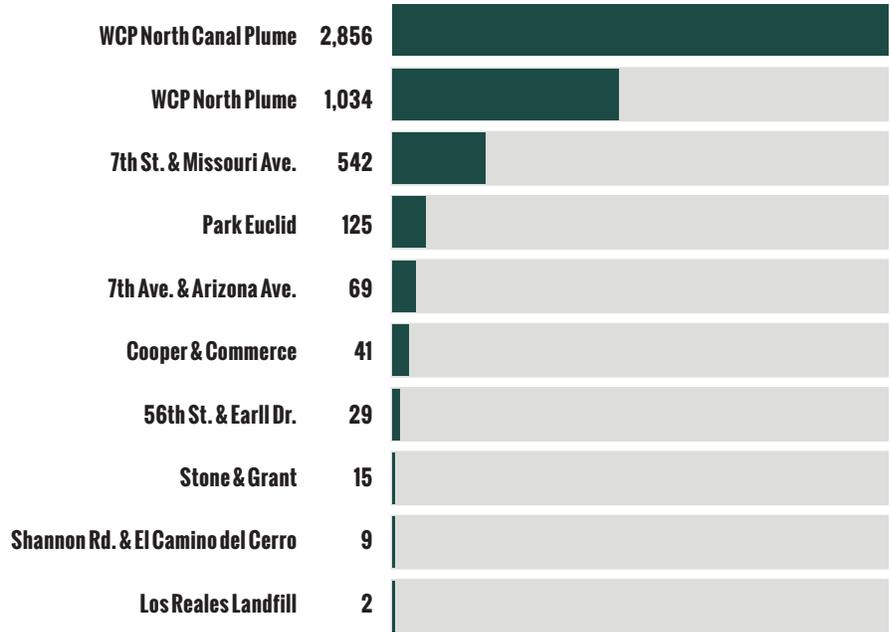
# WQARF PHASES AND TERMS



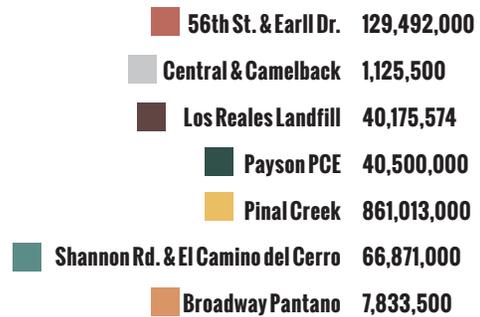
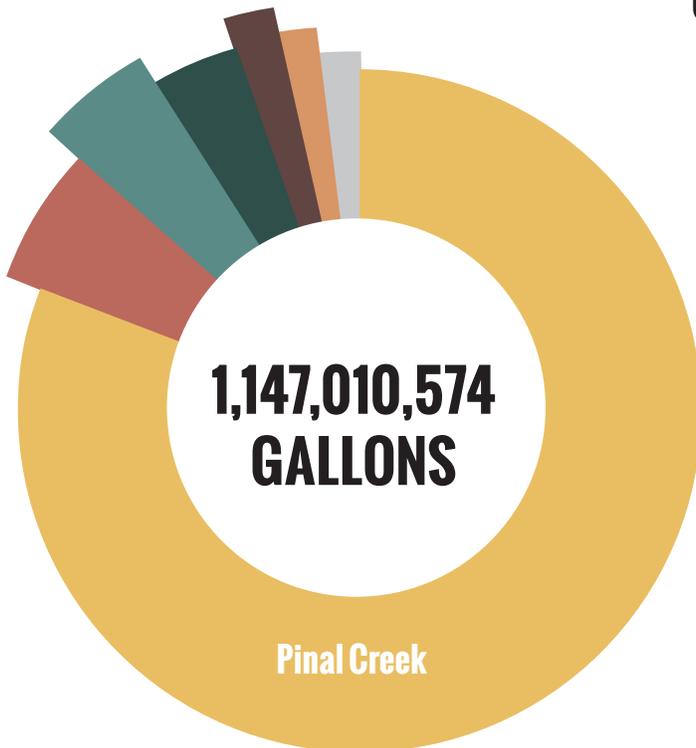
# WQARF SITE MISSION OUTCOME DETAIL

## REMEDIATION:

### Volatile Organic Compounds (VOCs) Removed



### Gallons of Groundwater Treated

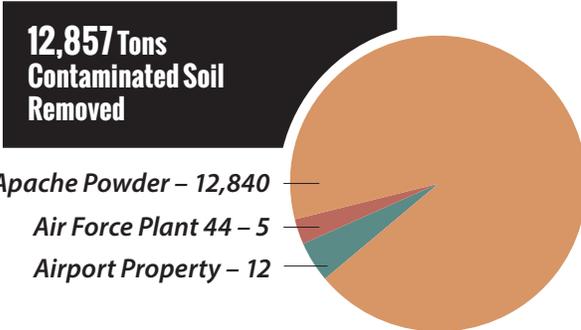


# FEDERAL SITE MISSION OUTCOME DETAIL

## REMEDIATION:

### Volatile Organic Compounds (VOCs) Removed

Williams AFB	140
Phoenix-Goodyear Airport North	715
Phoenix-Goodyear Airport South/Western Ave	80
Motorola 52nd Street OU1	632
Motorola 52nd Street OU2	222
Hassayampa Landfill	142
North and South Indian Bend Wash	1822
Air Force Plant 44	152
Tucson Airport Remediation Project	249
Airport Property	41
Kachina / Joray (M52 OU2)	1.4



### Gallons of Groundwater Treated

North and South Indian Bend Wash	5,549,311,300
Tucson Airport Remediation Project	1,895,000,000
Phoenix-Goodyear Airport North	1,463,000,000
Motorola 52nd St. OU2	624,896,000
Air Force Plant 44	562,680,106
Phoenix-Goodyear Airport South/Western Ave	418,000,000
Motorola 52nd St. OU1	80,692,310
Airport Property	36,420,000
Williams AFB	18,000,000
Apache Powder	14,658,958
Yuma Marine Corps Air Station	9,101,445
Hassayampa Landfill	400,335



# FY19 WQARF REMEDIATION

PDF version available at [azdeq.gov/wqarf/2019wqarf\\_annualreport.pdf](http://azdeq.gov/wqarf/2019wqarf_annualreport.pdf). Click each of the following sites to visit associated webpages.

## 7TH STREET AND ARIZONA AVENUE

Initiated rebound testing to assess remaining contamination; continued operation of SVE system

## 7TH AVENUE AND BETHANY HOME ROAD



Continued ERD injections to groundwater

## 7TH STREET AND MISSOURI AVENUE



Expanded SVE system; implemented an in situ groundwater treatment pilot test

## 16TH STREET AND CAMELBACK



Increased number of ERD injections to groundwater; conducted MNA

## 56TH STREET AND EARL DRIVE

Continued operation of pump and treat system; worked to complete data gaps for FS

## CENTRAL AND CAMELBACK

Installed 3 wells to characterize extent of plume; conducted aquifer pump test to help evaluate potential final remedies; performed SVE rebound test

## BROADWAY-PANTANO



Constructed asphalt cap over area of dross; installed ISCO groundwater treatment system at Broadway North Landfill; installed SVE system at Broadway South Landfill

## COOPER ROAD AND COMMERCE AVENUE

Installed 3 additional vapor extraction wells to upgrade SVE system

## 20TH STREET AND FACTOR AVENUE

Increased number of groundwater injection wells to conduct ERD; conducted engineer cap maintenance

## ECP - 24TH STREET AND GRAND CANAL

Installed 10 additional groundwater monitoring wells; completed final RI report

# WQARF REMEDIATION CONTINUED

## ECP - 32ND STREET AND INDIAN SCHOOL ROAD

Conducted SVE rebound evaluations; completed the final RI report

## ECP - 40TH STREET AND OSBORN ROAD

Installed 4 additional groundwater monitoring wells

## ECP - 48TH STREET AND INDIAN SCHOOL ROAD

Completed draft RI report

## ESTES LANDFILL

Conducted MNA

## HIGHWAY 260 AND JOHNSON LANE

Completed RI and FS reports; continued operation of 3 GAC wellhead treatment systems

## HIGHWAY 260 AND MAIN STREET

Installed 3 groundwater monitoring wells; installed GAC wellhead treatment for a residential private drinking water well; continued to maintain another treatment system installed previously

## KLONDYKE TAILINGS PROJECT

Continued maintenance on engineered repository

## LAKE HAVASU AVENUE AND HOLLY AVENUE



Installed 6 monitoring wells; conducted bench-scale testing of site groundwater to evaluate treatment possibilities

## LOS REALES LANDFILL

Continued operation of pump and treat system

## MILLER VALLEY AND HILLSIDE AVENUE



Installed 2 deep monitoring wells; sampled all site monitoring wells and 10 private wells; conducted seismic survey to determine location of bedrock at site

## MIRACLE MILE



Provided bottled water to residents after a small water providers' well and distribution system detected a contaminant exceeding a federal standard; installed wellhead treatment

## PARK-EUCLID

Installed 10 additional groundwater monitoring wells; upgraded SVE system to include catalytic oxidation

# WQARF REMEDIATION CONTINUED

## PAYSON PGE

Implemented ERD injections and bioaugmentation; maintained treatment system to groundwater

## PINAL CREEK

Continued source control, groundwater remediation and groundwater monitoring; conducted groundwater remedy optimization pilots tests

## SHANNON ROAD/EL CAMINO DEL CERRO



**MILLION**  
GALLONS OF  
WATER TREATED

Continued operation of a groundwater treatment system for Metro Water to supply drinking water to residents

## SILVERBELL LANDFILL

Installed a groundwater extraction and treatment system

## SOUTH MESA

Implemented successful ISCO pilot test to groundwater

## STONE AVENUE AND GRANT ROAD

Continued operation of SVE system

## VULTURE MILL



Conducted maintenance on soil cap and optimized existing infrastructure

## WCP - EAST GRAND AVENUE

Conducted groundwater monitoring and sampling

## WCP - WEST OSBORN COMPLEX



Continued groundwater monitoring; installed new monitor wells in shallow and deep aquifers

## WCP - NORTH CANAL PLUME



Installed deep soil vapor well and SVE system to maximize an existing SVE system

## WESTERN AVENUE PLUME

Continued operation of groundwater treatment system and conducted MNA

## WCP - NORTH PLUME

Continued ERD injections to groundwater and operation of SVE system

## WEST VAN BUREN

Requested Environmental Protection Agency (EPA) to evaluate site for listing on the National Priorities List; provided supporting documentation to EPA

# WQARF REMEDIATION CONTINUED

## REMOVED FROM REGISTRY

1. East Central Phoenix (ECP) - 38th Street and Indian School Road (Phoenix) | FY18
  2. West Central Phoenix (WCP) - West Grand Avenue (Phoenix) | FY17
  3. East Central Phoenix (ECP) - 40th Street and Indian School Road (Phoenix) | FY17
  4. Tyson Wash (Quartzsite) | FY17
  5. Tonto and Cherry (Payson) | FY14
  6. East Washington Fluff (Phoenix) | FY13
- 

## REMEDATION ACRONYMS

**ERD** | Enhanced Reductive Dechlorination

**GAC** | Granulated Activated Carbon

**ISCO** | In Situ Chemical Oxidation

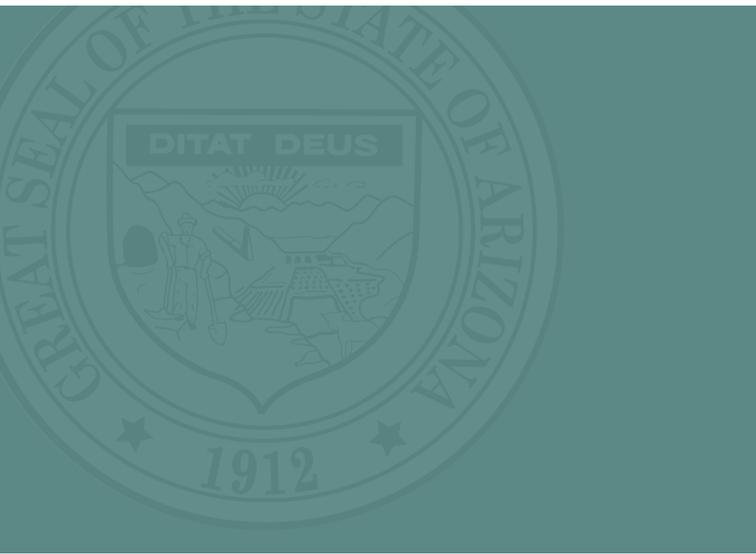
**MNA** | Monitored Natural Attenuation

**SVE** | Soil Vapor Extraction

# WQARF STATUS

SITE	ERA			RI			FS			PRAP			ROD			O&M		
	FY18	FY19	FY20															
7th Street and Arizona Avenue										X	X	X			X		X	X
7th Avenue and Bethany Home Road													X	X	X	X	X	X
7th Street and Missouri Avenue	X	X		X	X			X				X			X	X	X	X
16th Street and Camelback													X	X	X	X	X	X
20th Street and Factor Avenue													X	X	X	X	X	X
56th Street and Earll Drive				X	X			X				X			X	X	X	X
Broadway-Pantano		X								X	X				X		X	X
Central and Camelback										X	X				X	X	X	X
Cooper Road and Commerce Avenue										X	X				X	X	X	X
ECP - 24th Street and Grand Canal	X	X		X	X			X				X			X			X
ECP - 32nd Street and Indian School Road	X			X	X			X				X			X			X
ECP - 40th Street and Osborn Road				X	X	X			X			X						
ECP - 48th Street and Indian School Road				X	X	X			X			X						
Estes Landfill													X	X	X	X	X	X
Harrison Road & Millmar Dross							X									X	X	X
Highway 260 and Johnson Lane	X	X		X	X			X				X			X			X
Highway 260 and Main Street	X	X		X	X				X									
Klondyke Tailings Project													X	X	X	X	X	X
Lake Havasu Avenue and Holly Avenue			X	X	X	X			X									
Los Reales Landfill (Old WQARF*)													X	X	X	X	X	X
Miller Valley and Hillside Avenue			X	X	X	X			X									
Miracle Mile		X					X	X				X			X			X
Park-Euclid							X			X	X	X			X			X
Payson PCE													X	X	X	X	X	X
Pinal Creek (Old WQARF*)													X	X	X	X	X	X
Shannon Road/El Camino del Cerro										X	X	X			X	X	X	X
Silverbell Landfill (Old WQARF*)													X	X	X	X	X	X
South Mesa													X	X	X	X	X	X
Stone Avenue and Grant Road	X	X		X	X				X							X		
Vulture Mill													X	X	X	X	X	X
WCP - East Grand Avenue						X	X	X				X						
WCP - North Canal Plume	X	X					X	X				X						
WCP - North Plume										X	X				X			X
WCP - West Osborn Complex										X	X				X			X
Western Avenue Plume													X	X	X	X	X	X
West Van Buren							X	X	X									

\* Prior to the WQARF Reform Legislation of 1997, Remedial Action Plans (RAPs) are equivalent to RODs



# FY19 WQARF PROGRESS



## PI

30

In Progress

8

Periodic Monitoring

28

No Further Investigation or Action (NFIA)  
and/or referred to other program(s)

0

Listed

## WQARF PHASES COMPLETED

### RI

- East Central Phoenix - 24th Street and Grand Canal (Phoenix)
- East Central Phoenix - 32nd Street and Indian School Road (Phoenix)
- East Central Phoenix - 48th Street and Indian School Road (Phoenix)
- Highway 260 and Johnson Lane (Pinetop-Lakeside)
- 56th Street and Earll (Phoenix)
- 7th Street and Missouri Avenue (Phoenix)

### FS

- East Central Phoenix - 24th Street and Grand Canal (Phoenix)
- East Central Phoenix - 32nd Street and Indian School Road (Phoenix)
- Highway 260 and Johnson Lane (Pinetop-Lakeside)

### PRAP

- Cooper and Commerce (Gilbert)
- Broadway-Pantano (Tucson)

# 3RD PARTY WORK

ADEQ also oversees WQARF site investigation and remedial activities that 3rd parties pay for and conduct. Costs ADEQ incurs for this oversight are recoverable.

Site	3rd Party	Terms of Activity
56th Street and Earll Drive	NXP USA, Inc. (formerly Freescale Semiconductor, Inc.)	Consent Order
Los Reales Landfill	City of Tucson	Remedial Action Plan
Park-Euclid	Park-Euclid Group	Working Agreement
Pinal Creek	Freeport McMoRan Inc. as successors of interest under a Consent Decree; BHP and Pinal Creek Working Group	Consent Decree
Silverbell Landfill	City of Tucson	Remedial Action Plan
West Central Phoenix (WCP) - East Grand Avenue	Univar	Working Agreement
West Van Buren	Air Liquide America Specialty Gases LLC	Amended Consent Order

# CROSS-PROGRAM REMEDIAL ACTION

Program monies can also be used to perform remedial actions pursuant to Arizona Revised Statutes (A.R.S.) §49-281(12) and §49-282(E) (2)(a), as well as to fund cleanup of selected sites to protect public health and the environment from a release or threat of release of a hazardous substance or pollutant under authority of A.R.S. §49-282.02.

**Under this authority, the WQARF program conducted work at the following site:**

## MOUNTAIN VIEW ESTATES

Former Superfund site; performed O&M of a soil cap

**Under this authority, the WQARF program also assisted the ADEQ Water Quality Division with the following:**

## HILLSIDE MINE



Addressed ongoing contamination from historical mining activities impacting Boulder Creek approximately 5 miles northwest of Bagdad, Arizona. Remediation included:

- Installation of two engineered concrete plugs in the draining mine adit, significantly reducing discharge into Boulder Creek.
- Re-contoured of approximately 5 acres of tailing piles and covered tailings with an engineered soil cap.

## THREE R MINE



Developed a remediation plan to address contamination from historical mining activities impacting an unnamed tributary of Cox Gulch in Three R Canyon approximately 5 miles south of Patagonia, Arizona. During high-flow events, such as runoff from monsoonal thunderstorms, contaminated water could reach Sonoita Creek and subsequently Patagonia Lake, located approximately 2.4 miles away.

## POLAND WALKER TUNNEL



Developed a preliminary assessment and remedial options to address contamination from historical mining activities impacting Big Bug Creek approximately 8 miles west of Highway 69 at Poland Junction, Arizona.

## GIBSON MINE



Performed a preliminary assessment to evaluate whether surface water quality standards are being met after remedial activities were conducted to address contamination from a historical mine adit impacting Mineral Creek approximately 7 miles southwest of Miami, Arizona.

## SURFACE WATER QUALITY IMPROVEMENT

- Developed a real-time assessment tool which reduced the amount of time it takes to format the assessment from 271 days to under 15 minutes
- Collected and analyzed 525 samples from 270 stream sites
- Collected and analyzed 47 samples from 10 lakes
- Trained 21 volunteer groups across Arizona to collect credible water quality data to help fill data gaps and meet ADEQ assessment, effectiveness monitoring and delisting goals

## EMERGENCY RESPONSE

Program monies fund a wide array of critical remedial response actions taken by the Emergency Response Unit (ERU) to protect public health and the environment from a release or threat of release of a hazardous substance or pollutant through A.R.S. §49-282(E)(8).

These actions range from, but are not limited to:

- Responding to chemical spills
- Coordinating statewide emergency response actions (e.g., wildfires)
- Serving on multi-agency taskforces to address potential statewide health risks
- Monitoring air quality during unplanned or emergency events (e.g., industrial facility fires)
- Detecting and identifying potentially harmful chemicals for fire departments and public safety personnel

## PREPAREDNESS RESPONSE SUMMARY



# AGENCY PARTNERS

## ARIZONA DEPARTMENT OF WATER RESOURCES (ADWR)

Program monies can be used to fund support services to WQARF by the Arizona Department of Water Resources pursuant to A.R.S. §49-282(C) and §49-282(E)(12).

These services are part of the Arizona Water Quality Fund Program and include, but are not limited to:

- Performing technical review of well applications, such as Notices of Intent (NOIs) to Drill/Abandon/Deepen/Modify/Replace a Well, Applications to Drill and Operate a Non-Exempt Well, and Groundwater Withdrawal Permits\* and consult with ADEQ regarding new wells, abandonments, modifications to wells near remedial action sites
- Conducting well inventories to support WQARF program, as requested\*\*
- Coordinating with ADEQ regarding database needs in support of WQARF program\*
- Establishing a mechanism to exchange verified well locations and GPS measurements within ADWR's Well Registry (WELLS55) database\*\*
- Performing other WQARF and water quality activities as required by statute, rule or Interagency Service Agreement (ISA)

\*Required by statute or law

\*\*Recommended by Groundwater Cleanup Task Force

## FY19 ARIZONA WATER QUALITY FUND PROGRAM ACCOMPLISHMENTS

**3,164** *Reviews of NOIs to Drill/Abandon/Deepen/Modify/Replace wells for proximity to WQARF/CERCLA or other remedial action sites*

**538** *Reviews of NOIs to Drill/Abandon/Deepen/Modify/Replace wells near or within WQARF/CERCLA or other remedial action sites for water quality concerns, potential contaminant plume migration and well construction*

**92** *Reviews of permit applications to withdraw groundwater for proximity to WQARF/CERCLA or other remedial action sites*

**16** *Reviews of well permit applications near or within WQARF/ CERCLA or other remedial action sites for water quality concerns, potential contaminant plume migration, well construction and well impacts; these permits include Poor Quality Ground Water Withdraw Permits for remediation projects*

**4** *Quarterly reports submitted to ADEQ as required by ISA*

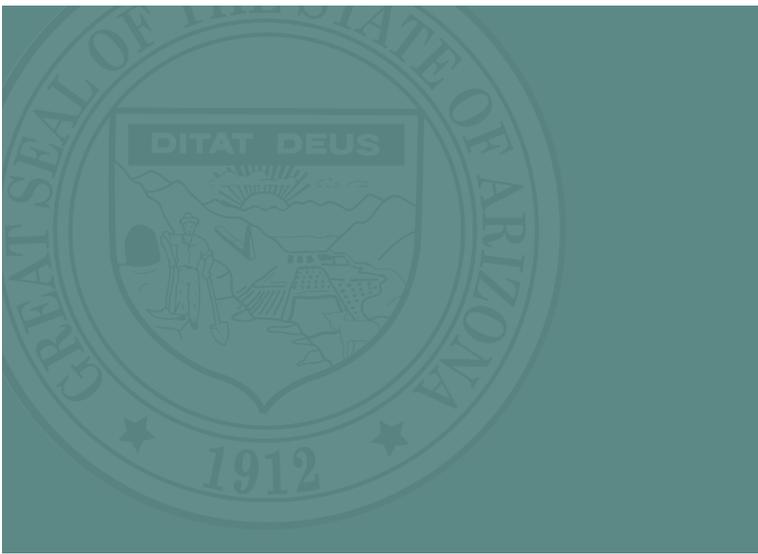
**1** *Annual FY18 report on ADWR WQARF activities submitted to the Governor, Legislature and WQARF Program*

*Over the last three years, ADWR successfully designed and employed a more efficient process for collaborative review of NOIs near remedial action sites and selected the project as a Lean Transformation in Government project.*

## ARIZONA DEPARTMENT OF HEALTH SERVICES (ADHS)

Program monies can be used by the Arizona Department of Health Services pursuant to A.R.S. §9-282(E)(15).to fund assessment and evaluation of the effect of a release or threatened release of hazardous substances to public health.

ADHS declined funding in FY19.



# FY19 WQARF FINANCIALS



# FY19 WQARF COST RECOVERY ACTIVITY

Pursuant to A.R.S. § 49-282(E)(1), WQARF can be used to provide state-matching funds or to meet other obligations as prescribed by §104 of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). WQARF funds are also used for oversight activities at state-led CERCLA sites, which are reimbursed by the responsible parties. Cost reimbursement activities at WQARF and CERCLA sites supported by ADEQ are provided below.

SITE CODE	WQARF SITE	THIRD-PARTY
030016-99	Camp Navajo DEMA	\$30,494.15
040010-00	Pinal Creek	\$4,342.39
040042-00	Copper Cities Unit	\$1,420.56
040050-00	Miami Tailings Reprocessing	\$1,745.13
040098-00	Magma Copper Old Dominion Mine	\$81.20
400000-04	North Indian Bend Wash	\$6,784.81
509216-00	56th Street and Earll Drive	\$ 9,003.80
512051-00	Maroon Crater	\$ 1,878.32
512357-00	Honeywell 34th St	\$16,933.29
512472-00	Park Euclid	\$911.64
512820-00	Kingman Range NDNODS	\$1,581.31
512945-00	27th Ave Remediation	\$241,307.44
<b>Total Reimbursement Requested</b>		<b>\$316,484.04</b>
<b>Total Payments Received*</b>		<b>\$291,106.13</b>

*\*Requests for reimbursement are sent to responsible parties quarterly. The difference between the requested and received amount reflects an outstanding balance, which may be paid in the following fiscal year.*

## WQARF REVENUES AND EXPENDITURES

Note:

All figures expressed in thousands.

BALANCE	FY18 ACTUAL	FY19 PROJECTION	FY19 ACTUAL
Beginning Fund Balance - WQARF & Priority Sites	4,585.0	4,585.0	4,585.0
Beginning Fund Balance - Site Specific Account	1,667.3	7,276.0	7,276.0
<b>Subtotal: Funds Available</b>	<b>6,252.3</b>	<b>11,861.0</b>	<b>11,861.0</b>
Prior Year Corporate Income Tax Reversion	0.0	0.0	0.0
<b>Total Balance from Prior Year</b>	<b>6,252.3</b>	<b>11,861.0</b>	<b>11,861.0</b>
REVENUE SUBJECT TO 18M CAP	FY18 ACTUAL	FY19 PROJECTION	FY19 ACTUAL
Corporate Income Tax (CIT)	2,823.6	0.0	0.0
Emissions Inspections Fund (EIF)	4,000.0	6,500.0	6,500.0
Air Quality Fund (AQF)	2,000.0	5,000.0	5,000.0
Permit Administration Fund (PAF)	3,713.3	0.0	0.0
Recycling Fund (RECYCLE)	1,000.0	2,052.0	2,052.0
<b>FEES:</b>			
Municipal Water (A.R.S. 42-5302)	889.5	890.0	618.7
Fertilizer Registration (A.R.S. 3-272)	74.1	45.0	60.4
HW Facility Registration Fee (A.R.S. 49-929/49-930)	141.3	220.0	184.8
HW Manifest Re-submittal Fee (A.R.S. 49-922.01)	0.0	0.0	0.0
Industrial Discharge Permit Fee (A.R.S. 49-209)	28.4	35.0	34.3
Pesticide Registration (A.R.S. 3-351)	934.7	1,050.0	1,030.6
Quality Assurance Fee (A.R.S. 45-616)	0.0	0.0	0.0
<b>Subtotal: Fees</b>	<b>2,068.0</b>	<b>2,240.0</b>	<b>1,928.8</b>
<b>Total: Revenue Subject to 18M Cap</b>	<b>15,604.9</b>	<b>13,740.0</b>	<b>15,480.8</b>
REVENUE NOT SUBJECT TO 18M CAP	FY18 ACTUAL	FY19 PROJECTION	FY19 ACTUAL
Consent Decrees	251.7	0.0	223.2
Cost Recovery (A.R.S. 49-282)	2,273.7	0.0	316.5
<b>Responsible Parties</b>	<b>2,525.4</b>	<b>0.0</b>	<b>539.7</b>
<i>*Includes revenue from prior year packets</i>			
Prospective Purchaser Agreement (A.R.S. 49-285.01)	88.6	38.0	3.6
Interest (A.R.S. 49-282)	2,441.5	0.0	108.6
Other Income	2,530.1	38.0	(1,869.4)
<b>Other Revenue</b>	<b>5,055.5</b>	<b>38.0</b>	<b>(1,757.2)</b>
<b>Total: Revenue Not Subject to 18M Cap</b>	<b>88.6</b>	<b>38.0</b>	<b>5,055.5</b>
<b>Beginning Balance and Revenue</b>	<b>2,530.1</b>	<b>17,023.9</b>	<b>26,912.6</b>
EXPENDITURES	FY17 ACTUAL	FY18 PROJECTION	FY18 ACTUAL
Non-Site Expenditures	4,701.8	5,894.3	4,991.4
Site Expenditures	10,348.9	13,315.8	17,849.1
Transfers Out	1.0	189.9	262.2
General Fund Sweep	0.0	0.0	0.0
<b>Total Expenditures</b>	<b>15,051.7</b>	<b>19,400.0</b>	<b>23,102.7</b>

## WQARF EXPENDITURE STATEMENT

Note:

All figures expressed in thousands.

CORE EXPENDITURES	FY19 SPENDING PLAN
WQARF Professional & Support Staff	3,247.1
Professional & Outside - Remedial Projects	120.0
Hydrologic Support & Assessment	2,146.4
Professional & Outside - Hydrologic Support & Assessment	150.0
Emergency Response	390.0
Attorney General's Office	500.0
PRP Identification/Liability	100.0
Litigation	0.0
Appeals	0.0
Advisory Board	0.0
Rule Development	0.0
Community Involvement/General WQARF	0.0
<b>Core Expenditures</b>	<b>6,653.5</b>

REGISTRY SITES AND PRELIMINARY INVESTIGATIONS (PI)	FY20 SPENDING PLAN
RI/FS - Site Specific WQARF	1,450.0
Clean up - Site Specific WQARF	4,818.3
ERA	1,500.0
O&M	2,500.0
Community Involvement	20.0
Preliminary Investigations	300.0
<b>Registry Sites &amp; PI</b>	<b>10,588.3</b>

<b>Subtotal: WQARF Program</b>	<b>\$17,241.8</b>
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TRANSFERS AND DISBURSEMENTS	FY20 SPENDING PLAN
Department of Health Services - Risk Assessment	0.0
Department of Water Resources - Appropriation Transfer Out	160.0
Aid to Municipalities	0.0
Voluntary Program	0.0
<b>Subtotal: Transfers &amp; Disbursements</b>	<b>160.0</b>

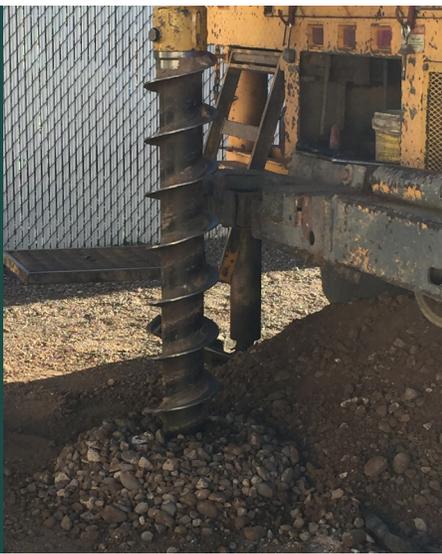
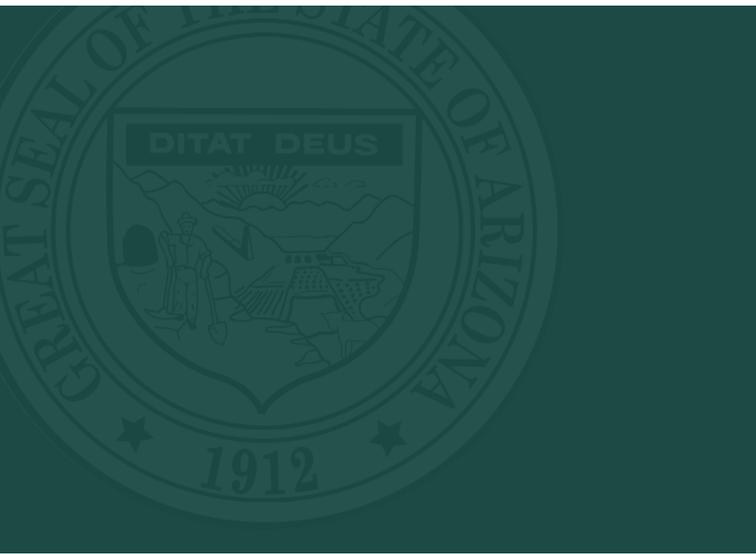
<b>Total Disbursements</b>	<b>17,401.8</b>
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\* Money reimbursed by Federal Project Unit for cost recovery not included in sites total

## WQARF SITE BUDGET

SITE	FY20 PROJECTED BUDGET
17,401.8	\$252,500
7th Avenue and Bethany Home Road	\$300,000
7th Avenue and Missouri Avenue	\$800,000
16th Street and Camelback Road	\$300,000
20th Street and Factor Avenue	\$300,000
56th Street and Earll Drive	\$0
Highway 260 and Johnson Lane	\$150,000
Highway 260 and Main	\$500,000
Broadway–Pantano	\$750,000
Central Avenue and Camelback Road	\$200,000
Cooper Road and Commerce Avenue	\$350,000
ECP - 24th Street and Grand Canal	\$525,000
ECP - 32nd Street and Indian School Road	\$525,000
ECP - 40th Street and Osborn	\$400,000
ECP - 48th Street and Indian School Road	\$100,000
Estes Landfill	\$300,000
Harrison Road and Millmar Dross	\$75,000
Klondyke Tailings	\$150,000
Los Reales Landfill	\$0
Lake Havasu and Holly Avenue	\$850,000
Miller Valley Road	\$650,000
Miracle Mile	\$500,000
Mountain View Estates	\$25,000
Park–Euclid	\$0
Payson PCE	\$200,000
Pinal Creek	\$0
Shannon Road-Rillito Creek/ECDC	\$300,000
Silverbell Landfill	\$0
South Mesa	\$350,000
Stone Avenue and Grant Road	\$300,000
Vulture Mill	\$150,000
WCP - East Grand Avenue	\$20,000
WCP - North Canal Plume	\$200,000
WCP - North Plume	\$250,000
WCP - West Osborn Complex	\$245,800
West Van Buren	\$150,000
Western Avenue	\$100,000
Community Involvement	\$20,000
Preliminary investigations	\$300,000
<b>WQARF Sites Budgets FY20</b>	<b>\$10,588,300</b>

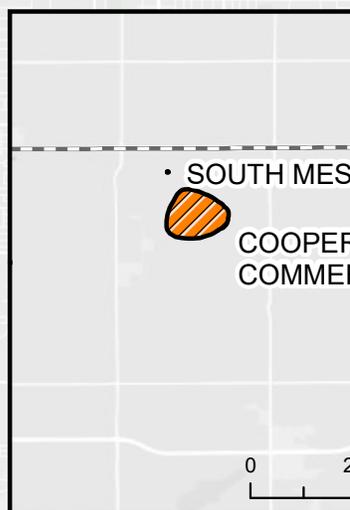
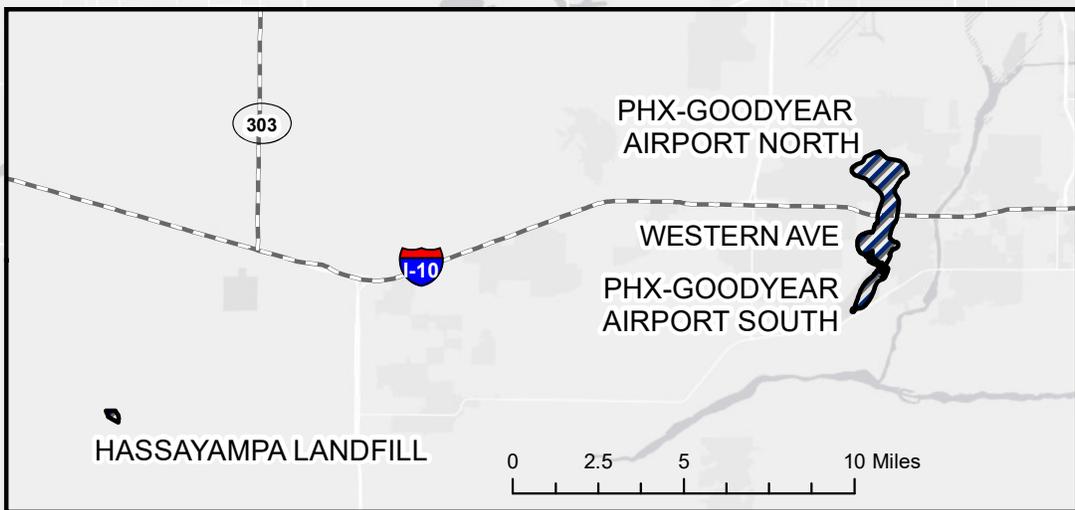
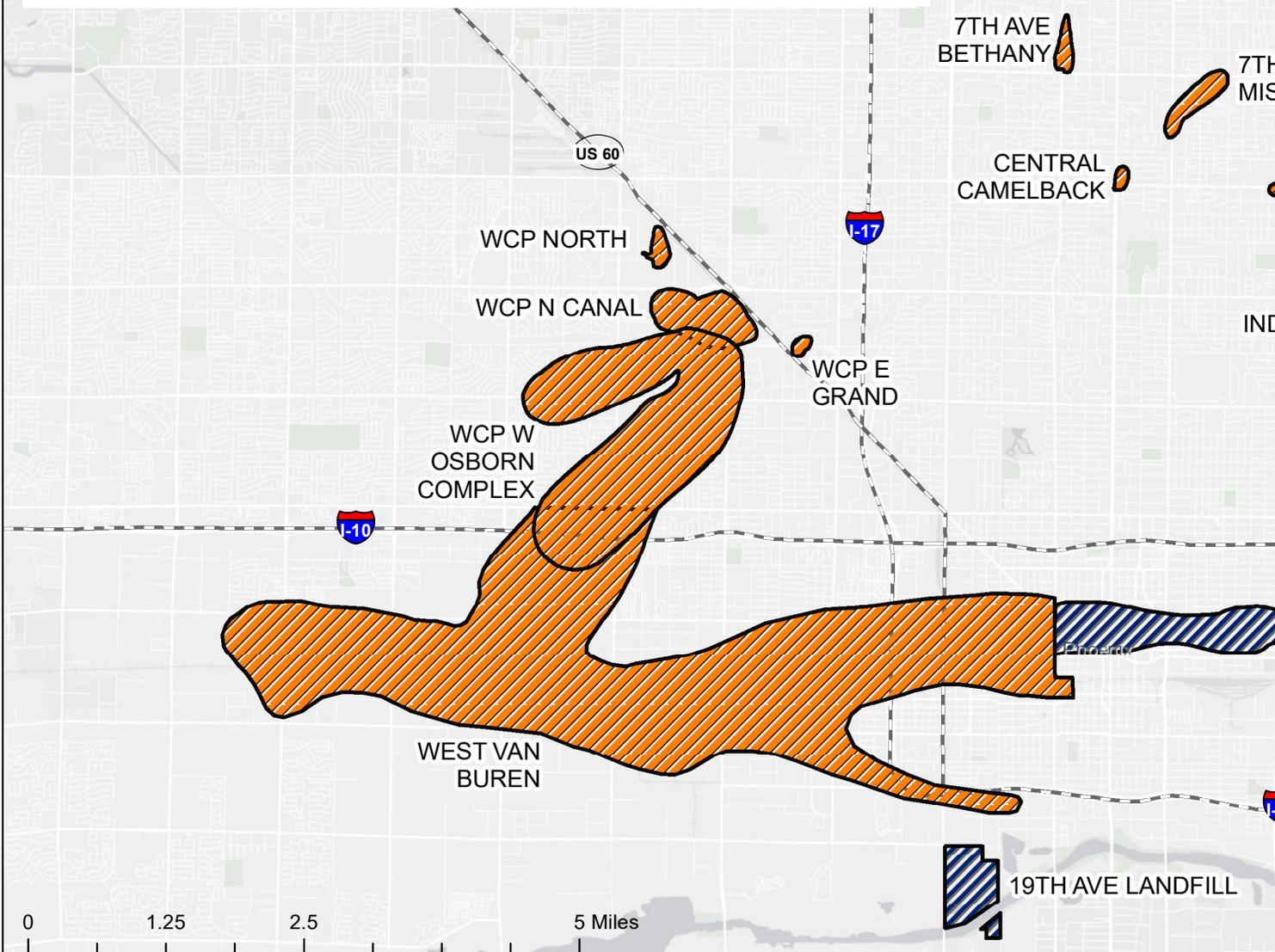
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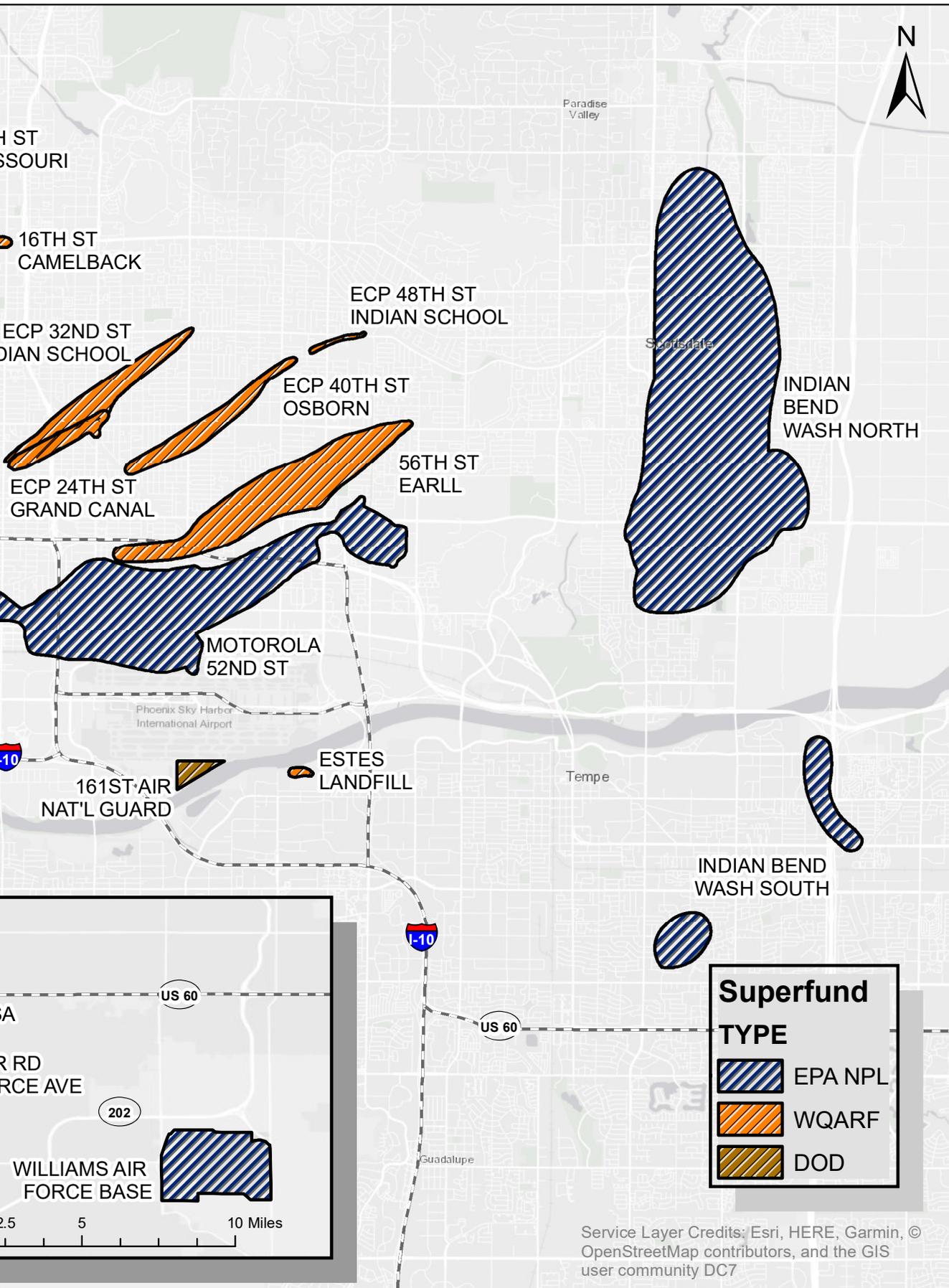


# FIGURES

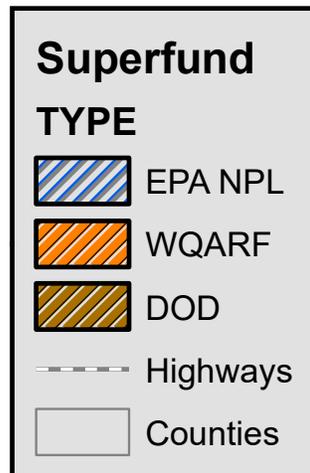
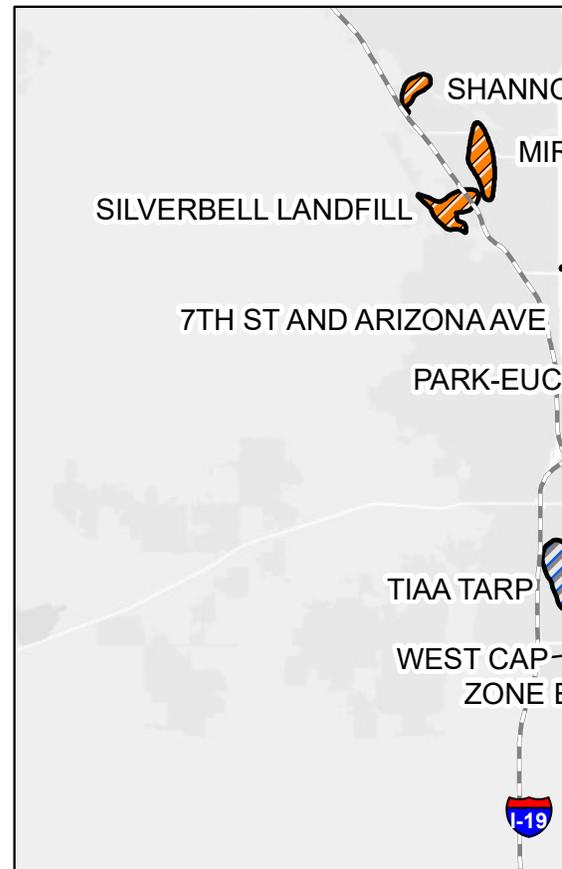
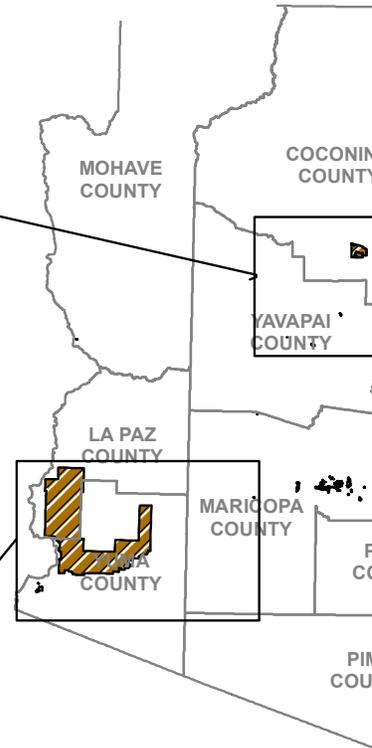
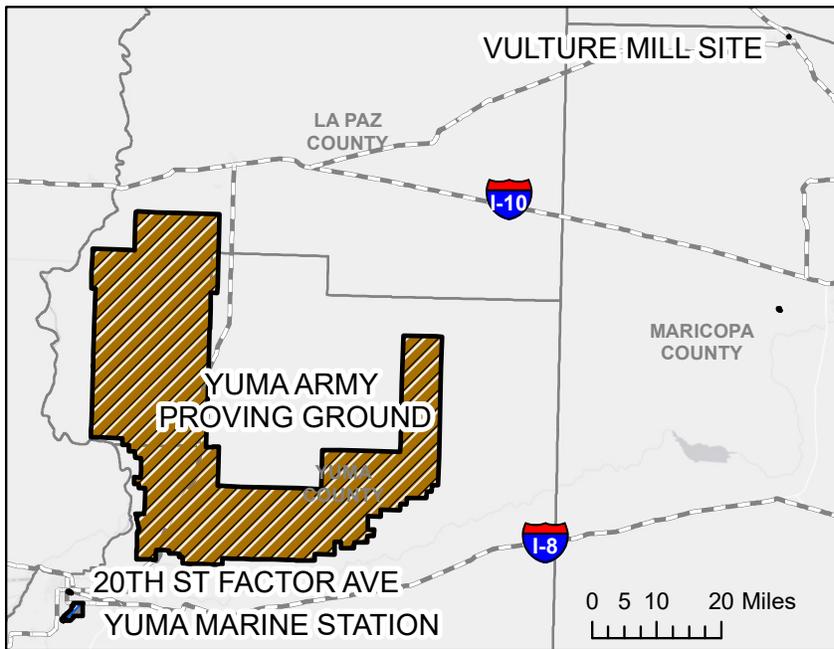


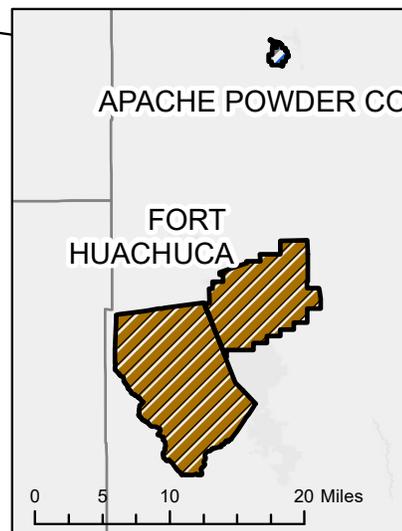
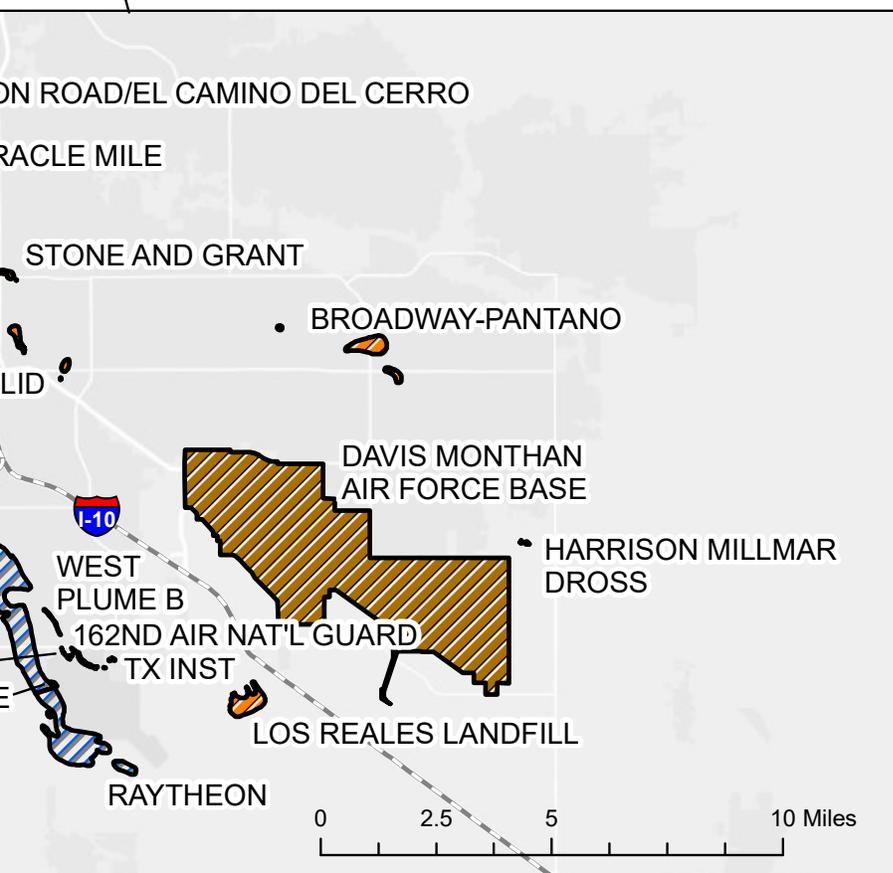
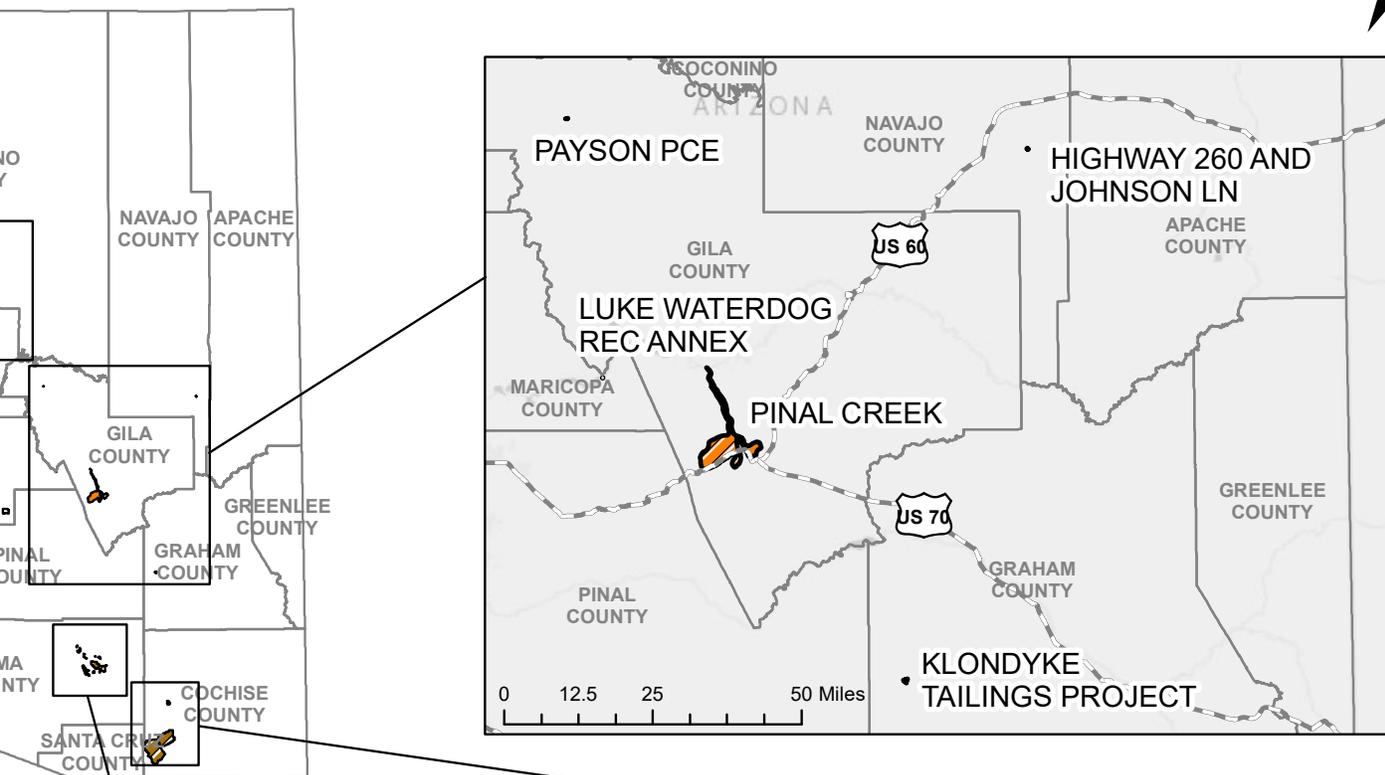
# METROPOLITAN PHOENIX SITES





# STATEWIDE SITES





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**WATER QUALITY  
ASSURANCE  
REVOLVING FUND  
FY19 ANNUAL  
REPORT**

**Sept. 3, 2019**  
EQR-19-10