



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.

FOREWORD

To ensure Arizonans have clean water and unencumbered land for human health and development today and tomorrow, the Water Quality Assurance Revolving Fund (WQARF) program identifies, assesses and mitigates contamination in groundwater and overlying soil at hazardous waste sites in Arizona. Using the Arizona Management System, we've dramatically reduced the average time to implement remedies at WQARF sites from more than eight years in Fiscal Year (FY) 2014 to less than a year in FY2022. And since 2014, we have completed cleanups at five sites.

Treatment systems funded at three WQARF sites are continuing to provide essential drinking water for communities in Tucson, Payson, and Flowing Wells. And the current threat to Tucson's central drinking water wellfield – which supplies water to over 600,000 people during certain times of the year – is also being addressed by ADEQ's award-winning team.

ADEQ remains steadfast in carefully evaluating and listing new sites that require investigation and cleanup, working with affected communities to ensure community involvement. In FY2022, our WQARF Program staff continued to aggressively evaluate Preliminary Investigation sites, resulting in the listing of two new sites on the WQARF Registry. These are the first sites added to the Registry since 2017.

We also will continue to respond to emergencies that involve hazardous materials. In FY2022 we responded to 20 emergencies in locations like Yuma, Joseph City, Miami, Coolidge, Mesa and more.

I want to personally thank all those involved in ensuring the continued success and full funding of this important program. As we look ahead, we see the increasingly evident threat of per- and polyfluoroalkyl substances (PFAS) to our water supply. We will need your continuing and robust support to address PFAS and other pollutants in our precious water and land.

Misael Cabrera, PE Director



EXECUTIVE SUMMARY

This report has been prepared for the Water Quality Assurance Revolving Fund (WQARF) as directed in Arizona House Bill 2862 (Laws 2022, Chapter 313) and meets the requirements for both the September 1, 2022 and October 1, 2022 deadlines.

Created under the Environmental Quality Act of 1986, the WQARF program supports ADEQ in identifying, prioritizing, assessing, and resolving the threat of contaminants in groundwater and overlying soil at 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.



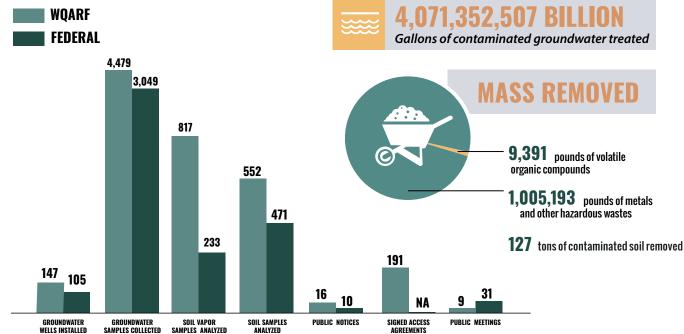
of the state's worst hazardous waste sites are being cleaned up through WQARF



additional sites are being monitored or evaluated for WQARF listing

FY22 SUPPORTING ACTIVITIES FOR STATE AND FEDERAL SITES

FY22 MISSION OUTCOMES OVERALL TOTALS



FY22 MILESTONES

| Feasibility Study Completed

| Record of Decision Completed

WQARF PROGRAM TIMELINE

REMOVED ACTIVE

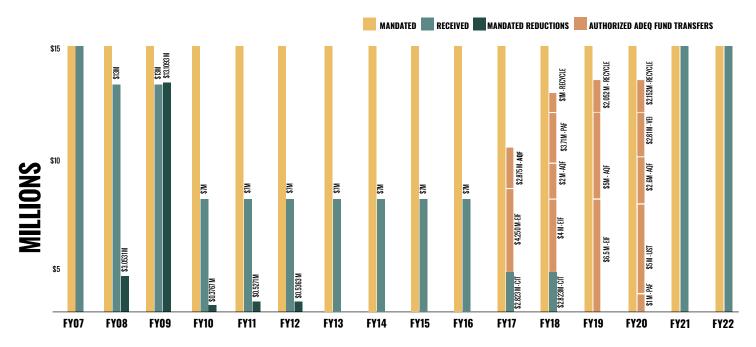


FY98 FY03 FY08 FY13 FY22

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. For the first time since 2007, \$15 million was statutorily mandated from the state's general fund in FY20, FY21, and FY22.

CORPORATE INCOME TAX REVENUE COMPARISON FY07 - FY22



FUNDS ARE USED FOR:

WQARF Registry | Conduct 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 gathering for projects led by other programs within ADEO
- 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 (EPA) 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

WQARF PHASES AND TERMS

PRELIMINARY INVESTIGATION (PI)

Confirm release of a hazardous substance and determine if further action or investigation is necessary

WOARF REGISTRY LISTING

Groundwater and/or soil contamination is at a level which impacts public health and/or the environment

POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH

Identify parties responsible for environmental contamination to assign proportional shares of liability to potentially pay for the cleanup; continues throughout process

EARLY RESPONSE ACTION (ERA)

Determine and quickly address significant public health and/or environmental impacts prior to implementing a final remedy

REMEDIAL INVESTIGATION (RI)

Determine the nature, extent, sources of contamination and impacts to publihealth, welfare and the environment

LAND AND WATER USE STUDY

Review of resource uses within the site area for establishing remedial objectives

REMEDIAL OBJECTIVES (RO) REPORT

Establishes the criteria to which a site will be cleaned up

FEASIBILITY STUDY (FS)

Documents remedial technologies and options that may achieve the ROs

PROPOSED REMEDIAL ACTION PLAN (PRAP)

Proposed cleanup remedy to show how each RO will be measured and fulfilled; provide cleanup cost estimate

RECORD OF DECISION (ROD)

Documents the agency's decision including cost, timeframes, contingency acceleration technologies and RO fulfillment

OPERATION AND MAINTENANCE (0&M)

Conduct according to schedule; applicable to the selected remedy

REMOVAL FROM REGISTRY

ADEQ determines that no further action is necessary and the site is removed from the WQARF registry

FY22 WQARF SITE MISSION OUTCOMES

Los Reales Landfill

7th Street & Arizona Avenue

56th Street & Earll Drive

1st Avenue & Hopi Drive (PI Site) 20

7th Street & Missouri Avenue

Stone Avenue & Grant Road 32

Park-Euclid 35

WCP North Plume 116

Shannon Road & El Camino del Cerro

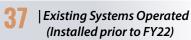
Cooper Road & Commerce Avenue

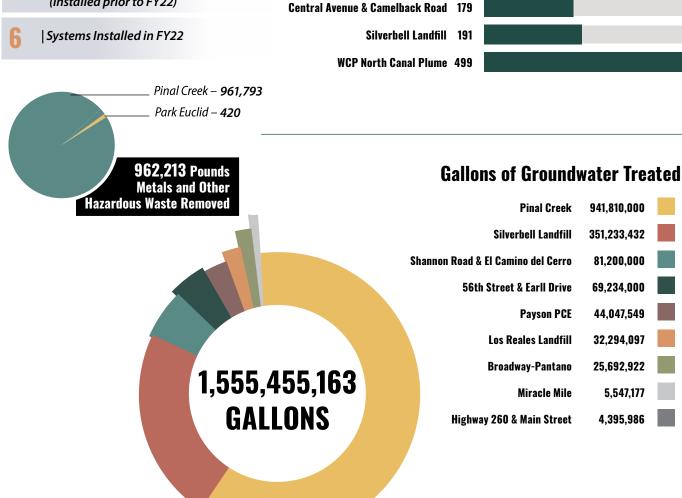
REMEDIATION:

Volatile Organic Compounds (VOCs) Removed



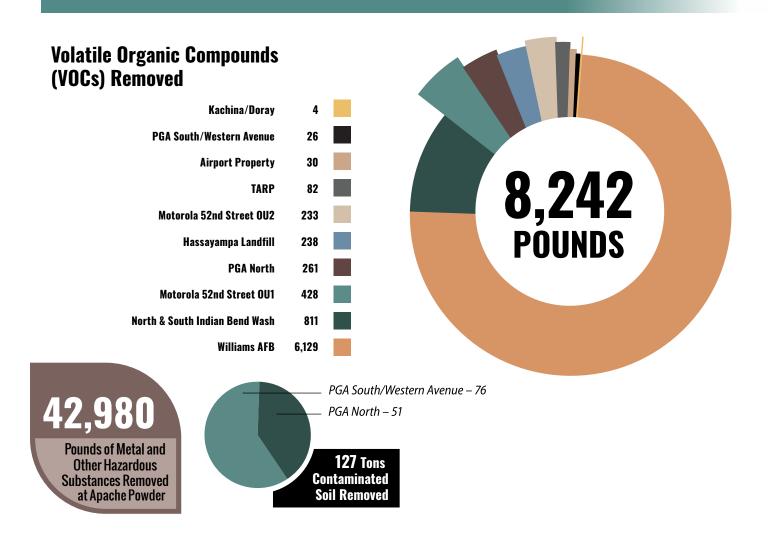
Remediation Systems Operated



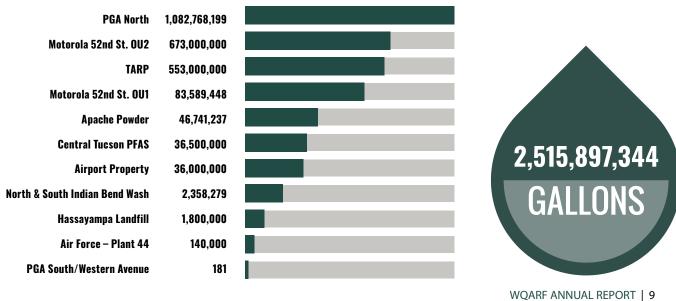


FY22 FEDERAL SITE MISSION OUTCOMES

REMEDIATION:



Gallons of Groundwater Treated



FY22 WQARF REMEDIATION

PDF version available at azdeq.gov/wqarf/2022wqarf_annualreport.pdf. Click each of the following sites to visit associated webpages.

7TH STREET AND ARIZONA AVENUE

Continued operation of SVE system

7TH AVENUE AND BETHANY HOME ROAD



Continued MNA and ERD injections to groundwater

16TH STREET AND CAMELBACK



Continued MNA and ERD injections to groundwater

20TH STREET AND FACTOR AVENUE

Continued ERD injections to groundwater; engineered CAP maintenance

7TH STREET AND MISSOURI AVENUE



51ST AVENUE AND CAMELBACK ROAD

and continued operation of SVE system



56TH STREET AND EARLL DRIVE

Continued operation of groundwater pump and treat system

BAHAMA AVENUE AND BIMINI LANE



Newly listed site; started remedial investigation

WQARF REMEDIATION CONTINUED

BROADWAY-PANTANO

Engineered cap maintenance; continued ISCO groundwater treatment system at Broadway North Landfill

CENTRAL AVENUE AND CAMELBACK ROAD

Continued operation of the SVE system

COOPER ROAD AND COMMERCE AVENUE



ECP - 32ND STREET AND INDIAN SCHOOL ROAD

Continued operation of ERD groundwater treatment pilot study and operation of SVE system

ECP - 38TH STREET AND INDIAN SCHOOL

Conducted additional characterization of the groundwater plume

ECP – 40TH STREET AND OSBORN ROAD

Continued groundwater monitoring and sampling of contaminant plume

ECP – 48TH STREET AND INDIAN SCHOOL ROAD

Continued groundwater monitoring and sampling of contaminant plume

ESTES LANDFILL

Continued MNA

HIGHWAY 260 AND JOHNSON LANE

Continued operation of 3 wellhead treatment systems

ECP - 24TH STREET AND GRAND CANAL



Continued operation of in-situ groundwater treatment system groundwater

HIGHWAY 260 AND MAIN STREET



Continued operation of 11 wellhead treatment systems; continued to operate existing wellhead treatment systems; continued ERD groundwater treatment pilot test

KLONDYKE TAILINGS PROJECT

Maintenance of engineered repository

LAKE HAVASU AVENUE AND HOLLY AVENUE



groundwater treatment pilot test

10 | WQARF ANNUAL REPORT | 11 Remediation acronyms on page 13. Remediation acronyms on page 13.

WQARF REMEDIATION CONTINUED

LOS REALES LANDFILL

Continued operation of pump and treat system

MILLER VALLEY AND HILLSIDE AVENUE

Conducted in-situ groundwater treatment pilot study

MIRACLE MILE

Continued operation of two wellhead treatment systems

PARK-EUCLID

Continued operation of SVE system and groundwater and soil vapor MNA

PAYSON PCE

Continued operation of groundwater treatment system

PINAL CREEK



Continued source control, groundwater remediation, and groundwater monitoring

SHANNON ROAD/EL CAMINO DEL CERRO

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

12 | WQARF ANNUAL REPORT

STONE AVENUE AND GRANT ROAD



Continued operation of SVE system

SILVERBELL LANDFILL

Continued operation of groundwater extraction and treatment system

SOUTH MESA

Continued operation of ISCO groundwater treatment pilot test

VULTURE MILL



Maintenance on soil cap

WCP - EAST GRAND AVENUE

Continued groundwater monitoring and sampling

WCP - NORTH CANAL PLUME

Continued operation of SVE system

WCP - NORTH PLUME



Continued ERD injections to groundwater; operation and optimization of SVE system

WCP - WEST OSBORN COMPLEX



Continued groundwater monitoring

WESTERN AVENUE PLUME

Continued operation of groundwater treatment system and MNA

WEST VAN BUREN

No significant activity

WQARF REMEDIATION CONTINUED

REMOVED FROM REGISTRY (SINCE 2014)

- 1. Harrison Road and Millmar Road Dross (Tucson) | FY20
- 2. WCP West Grand Avenue (Phoenix) | FY17
- 3. ECP 40th Street and Indian School Road (Phoenix) | FY17
- 4. Tyson Wash (Quartzite) | FY17
- 5. Tonto and Cherry (Payson) | FY14

REMEDIATION 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			0&M	
An 'X' indicates the WQARF phase the Site was in during the fiscal year displayed at the top of the column.	FY21	FY22	FY23															
7th Avenue and Arizona Avenue													Х	Х	Х	Х	Х	Х
7th Street and Bethany Home Road													χ	Х	Х	Х	Х	Х
7th Street and Missouri Avenue	Х									Х				Х			Х	Х
16th Street and Camelback Road													Х	Х	Х	Х	Х	Х
20th Street and Factor Avenue													Х	Х	Х	Х	Х	Х
51st Avenue and Camelback Road					Х	Х												Г
56th Street and Earll Drive	Х	Х	Х				Х	Х				Х						Г
Bahama Avenue and Bimini Lane					Х	Х												
Broadway-Pantano	Х	Х	Х										Х	Х	Х			
Central Avenue and Camelback Road													Х	Х	Х	Х	Х	Х
Cooper Road and Commerce Avenue													Х	Х	Х	Х	Х	Х
ECP – 24th Street and Grand Canal	Х	Х	Х										Х	Х	Х			
ECP – 32nd Street and Indian School Road	Х	Х	Х										Х	Х	Х			
ECP – 38nd Street and Indian School Road						Х	Х	Х	Х									
ECP – 40th Street and Osborn Road				Х			Х	Х	Х		Х	Х						
ECP – 48th Street and Indian School Road										Х	Х	Х						
Estes Landfill													Х	Х	Х	Х	Х	Х
Highway 260 and Johnson Lane																Х	Х	Х
Highway 260 and Main Street	Х	Х	Х	Х				Х	Х		Х	χ						Г
Klondyke Tailings Project													Х	Х	Х	Х	Х	Х
Lake Havasu Avenue and Holly Avenue	Х	Х	Х	Х			Х	χ	Х			χ						
Los Reales Landfill (Old WQARF*)													Х	Х	Х	Х	Х	Х
Miller Valley and Hillside Avenue	Х	Х	Х				Х	Х	Х			χ						Г
Miracle Mile	Х	Х	Х							Х	Х	χ						
Park-Euclid													Х	Х	Х	Х	Х	Х
Payson PCE													χ	χ	Х	Х	Х	Х
Pinal Creek (Old WQARF*)													Х	Х	Х	Х	Х	Х
Shannon Road/El Camino del Cerro	Х	Х	Х										Х	Х	Х			
Silverbell Landfill (Old WQARF*)													Х	Х	Х	Х	Х	Х
South Mesa													Х	Х	Х	Х	Х	Х
Stone Avenue and Grant Road													Х	Х	Х	Х	Х	Х
Vulture Mill													Х	Х	Х	Х	Х	Х
WCP – East Grand Avenue													Х	Х	Х			
WCP – North Canal Plume	Х	Х	Х										Х	Х	Х			
WCP – North Plume													Х	Х	Х	Х	Х	Х
WCP – West Osborn Complex	Х	Х	Х										Х	Х	Х			
Western Avenue Plume													Х	Х	Х	Х	Х	Х
West Van Buren							Х	Х	Х									

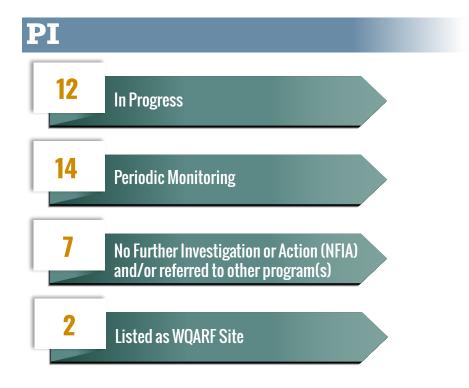
^{*} Under Old WQARF, Remedial Action Plans (RAPs) are equivalent to RODs



FY22 WQARF PROGRESS



WQARF PHASES COMPLETED



FS

• 56th Street and Earll Drive (Phoenix)

ROD

• 7th Street and Missouri Avenue (Phoenix)

THIRD-PARTY WORK

ADEQ also oversees WQARF site investigation and remedial activities that cooperating 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
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

CROSS-PROGRAM REMEDIAL ACTION

Program monies can also be used to perform Remedial Actions pursuant to 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 sites:

CENTRAL TUCSON PER-AND POLYFLUOROALKYL SUBSTANCES (PFAS) CHARACTERIZATION AND DEMONSTRATION TREATMENT PROJECT

Program monies were used to support the characterization and treatment of PFAS in the groundwater in central Tucson including the following:

- Installation of one monitoring well to confirm the understanding of the nature and extent of PFAS in the groundwater in central Tucson.
- Completion of the PFAS wellhead treatment system at Tucson Water Well C-007A.
- Start-up and initial operation of the wellhead treatment system to treat the PFAS-impacted drinking water at Tucson Water Well C-007A.
- All work was done on an escalated schedule and was completed within 18 months.

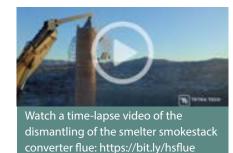
ADEQ is honored to have received the 2022 National Ground Water Association Outstanding Groundwater Remediation Project Award for: Expedited Site Characterization and Remediation of PFAS in Groundwater Protects City of Tucson Drinking Water Wellfield.



MOUNTAIN VIEW ESTATES

Performed O&M of a soil cap for this former Superfund site.

HUMBOLDT SMELTER STACK PROJECT



In January 2022, ADEQ, in coordination with EPA completed the careful dismantling of the smelter smokestack. The Humboldt Smelter is a portion of the Iron King Mine Superfund Site. ADEQ learned the smelter stack and converted flue were unstable and was frequented by trespassers. Dust control measures were implemented and air quality monitoring was conducted to ensure the surrounding community was not impacted. No exceedances of PM_{2.5}, PM₁₀ or other constituents were encountered. ADEQ installed additional fencing within the smelter plateau to further deter trespassing. In addition, due to the overall condition of the remaining dust control cover at the site, ADEQ repaired all of the existing cover to help minimize further weathering and degradation.

FY22 SURFACE WATER QUALITY IMPROVEMENT

The WQARF program also helped provide the ADEQ Surface Water Quality Improvement Value Stream with data necessary to evaluate the quality of Arizona's water bodies, develop watershed improvement plans, assess projects implemented, and improve water quality throughout Arizona.

- Internal staff and contractors collected and analyzed 537 samples from 131 stream sites.
- Volunteers collected and analyzed 487 samples from 93 stream sites.
- Internal staff and contractors collected and analyzed 46 samples from 22 lakes.
- · Completed 64 Streamflow Duration Assessment Method sites in support of the new Waters of Arizona Program.
- WQARF funding enabled the team to remediate a discharging artesian well in the Patagonia Mountains that was contaminating a
 nearby stream with heavy metals.
- Completed an assessment of abandoned and buried oil drums near the unoccupied Gibson Mine which is situated near the impaired Pinto Creek.

FY22 EMERGENCY RESPONSE UNIT (ERU) ACTIONS

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





AIR OUALITY MONITORING SUPPORT FOR EMERGENCY RESPONSE

ADEQ ERU has partnered with Maricopa County Air Quality Department as the emergency response provider for incidents that occur after business hours. This initiative also includes assisting public safety personnel with air quality monitoring during incidents with high impact to communities in metropolitan areas in Maricopa County.

In FY22, ADEQ ERU provided support for:

• Seven incident responses for air quality monitoring in the Phoenix metropolitan area.

AGENCY PARTNERS

ARIZONA DEPARTMENT OF WATER RESOURCES (ADWR)

Program monies can be used to fund support services to WQARF by ADWR 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 the WQARF program, as requested.*
- Coordinating with ADEQ regarding database needs in support of the 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).

FY22 ARIZONA WATER QUALITY FUND PROGRAM ACCOMPLISHMENTS

4,44(

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

552

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

145

Review of permit application to withdraw groundwater for proximity to WQARF/CERCLA or other remedial action sites

18

Technical review 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 included Poor Quality Groundwater Withdrawal Permits for remediation projects.

4

Quarterly reports submitted to ADEQ as required by ISA

1

Annual report on ADWR WQARF activities submitted to the Governor, Legislature and WQARF Program Over the last five
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

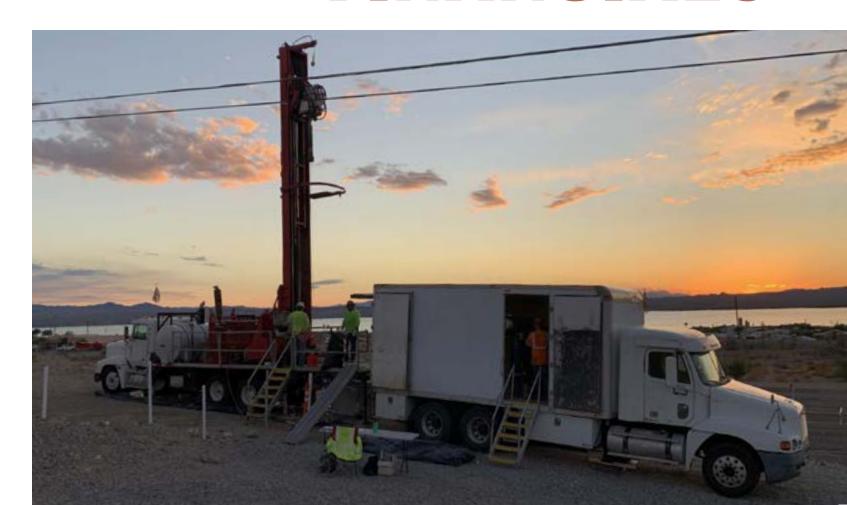
ARIZONA DEPARTMENT OF HEALTH SERVICES (ADHS)

Program monies can be used to fund assessment and evaluation of hazardous substances to public health by the ADHS pursuant to A.R.S. §9-282(E)(15).

ADHS did not request funding in FY22.



FY22 WQARF FINANCIALS



^{*}Recommended by Groundwater Cleanup Task Force

^{**} Required by statute or law

FY22 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 CERCLA. WQARF funds are also used for oversight activities at state-lead CERCLA sites, which are reimbursed by the responsible parties. Cost reimbursement activities at WQARF and CERCLA sites supported by ADEQ are provided in the following table.

SITE CODE	WQARF SITE	NUMBER OF PACKAGES	THIRD-PARTY
030016-99	Camp Navajo DEMA	5	\$5,229.01
040010-00	Pinal Creek	2	\$10,853.63
040042-00	Copper Cities Unit	2	\$3,042.67
040050-00	Miami Tailings Reprocessing	2	\$4,954.00
040098-00	Magma Copper Old Dominion Mine	2	\$738.05
400000-04	North Indian Bend Wash	1	\$11,062.35
509216-00	56th Street and Earll Drive	2	\$7,272.64
512051-00	Maroon Crater	5	\$12,777.23
512357-00	Honeywell 34th Street	4	\$19,657.53
512820-00	Kingman Range NDNODS	4	\$7,647.18
501146-00	WAPA	1	\$4,564.48
070241-01	Papago Park Military Reservation	5	\$2,014.63
030016-15	Camp Navajo	5	\$2,521.39
501170-00	Silverbell Army Heliport	5	\$7,480.91
513284-00	Fort Tuthill	5	\$17,234.90
	Total Reimbursement Requested	50	\$117,050.60
	Total Payments Received*		\$84,808.71

^{*}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.

FY22 WQARF REVENUES AND EXPENDITURES

Note:

All figures expressed in thousands.

BALANCE	FY21 ACTUAL	FY22 Projection	FY22 Actual
Beginning Fund Balance - WQARF & Priority Sites	\$3,942.7	\$4,810.8	\$4,810.8
Beginning Fund Balance - Site-Specific Account	\$297.5	\$339.0	\$339.0
Subtotal: Funds Available	\$4,240.2	\$5,149.8	\$5,149.8
Prior Year Corporate Income Tax Reversion	\$0.00	\$0.00	\$0.00
Total Balance from Prior Year	\$4,240.2	\$5,149.8	\$5,149.8
REVENUE SUBJECT TO 18M CAP	FY21 Actual	FY22 Projection	FY22 ACTUAL
Corporate Income Tax (CIT)	\$15,000.0	\$15,000.0	\$15,000.0
Emissions Inspection Fund	\$0.00	\$0.00	\$0.00
Air Quality Fund	\$0.00	\$0.00	\$0.00
Underground Storage Tank Fund	\$0.00	\$0.00	\$0.00
Permit Administration Fund	\$0.00	\$0.00	\$0.00
Recycling Fund	\$0.00	\$0.00	\$0.00
FEES:			
Municipal Water (A.R.S. 42-5302) (4199)	\$846.9	\$627.5	\$750.2
Fertilizer Registration (A.R.S. 3-272)	\$118.0	\$63.7	\$36.0
HW Facility Registration Fee (A.R.S. 49-929/49-930)	\$215.3	\$208.7	\$185.3
HW Manifest Re-submittal Fee (A.R.S. 49-922.01)	\$0.00	\$0.00	\$0.00
Industrial Discharge Permit Fee (A.R.S. 49-209)	\$27.7	\$30.4	\$29.4
Pesticide Registration (A.R.S. 3-351)	\$1,220.6	\$1,017.7	\$992.8
Quality Assurance Fee (A.R.S. 45-616)	\$0.00	\$0.00	\$0.00
Subtotal: Fees	\$2,428.5	\$ 1,948.0	\$1,993.7
		, ,,	41,000
Total Revenue Subject to 18M Cap	\$17,428.5	\$16,948.0	\$16,993.7
Total Revenue Subject to 18M Cap	\$17,428.5 FY21 ACTUAL		
	FY21	\$16,948.0 FY22	\$16,993.7 FY22
REVENUE NOT SUBJECT TO 18M CAP	FY21 ACTUAL	\$16,948.0 FY22 PROJECTION	\$16,993.7 FY22 ACTUAL
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees	FY21 ACTUAL \$2.8	\$16,948.0 FY22 PROJECTION \$0.00	\$16,993.7 FY22 ACTUAL \$4,469.2
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)*	FY21 ACTUAL \$2.8 \$134.4	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties	FY21 ACTUAL \$2.8 \$134.4	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets	\$2.8 \$134.4 \$137.2	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets Prospective Purchaser Agreement (A.R.S. 49-285.01)	\$2.8 \$134.4 \$137.2	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets Prospective Purchaser Agreement (A.R.S. 49-285.01) Interest (A.R.S. 49-282)	\$2.8 \$134.4 \$137.2 \$29.1 \$53.2	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0 \$21.2 \$51.9	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3 \$33.0 \$57.3
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets Prospective Purchaser Agreement (A.R.S. 49-285.01) Interest (A.R.S. 49-282) Other Income	\$2.8 \$134.4 \$137.2 \$29.1 \$53.2 \$254.9	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0 \$21.2 \$51.9 \$0.00	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3 \$33.0 \$57.3 \$0.00
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets Prospective Purchaser Agreement (A.R.S. 49-285.01) Interest (A.R.S. 49-282) Other Income Other Revenue	\$2.8 \$134.4 \$137.2 \$29.1 \$53.2 \$254.9	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0 \$21.2 \$51.9 \$0.00 \$73.1	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3 \$33.0 \$57.3 \$0.00 \$90.3
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets Prospective Purchaser Agreement (A.R.S. 49-285.01) Interest (A.R.S. 49-282) Other Income Other Revenue Total: Revenue Not Subject to 18M Cap	\$2.8 \$134.4 \$137.2 \$29.1 \$53.2 \$254.9 \$337.2	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0 \$21.2 \$51.9 \$0.00 \$73.1	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3 \$33.0 \$57.3 \$0.00 \$90.3
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets Prospective Purchaser Agreement (A.R.S. 49-285.01) Interest (A.R.S. 49-282) Other Income Other Revenue Total: Revenue Not Subject to 18M Cap Beginning Balance and Revenue	\$2.8 \$134.4 \$137.2 \$29.1 \$53.2 \$254.9 \$337.2 \$474.4 \$22,143.1	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0 \$21.2 \$51.9 \$0.00 \$73.1 \$273.1	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3 \$33.0 \$57.3 \$0.00 \$90.3 \$4,742.6 \$26,886.1
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets Prospective Purchaser Agreement (A.R.S. 49-285.01) Interest (A.R.S. 49-282) Other Income Other Revenue Total: Revenue Not Subject to 18M Cap Beginning Balance and Revenue EXPENDITURES	\$2.8 \$134.4 \$137.2 \$29.1 \$53.2 \$254.9 \$337.2 \$474.4 \$22,143.1	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0 \$21.2 \$51.9 \$0.00 \$73.1 \$273.1 \$22,370.9 FY22 PROJECTION	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3 \$33.0 \$57.3 \$0.00 \$90.3 \$4,742.6 \$26,886.1 FY22 ACTUAL
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets Prospective Purchaser Agreement (A.R.S. 49-285.01) Interest (A.R.S. 49-282) Other Income Other Revenue Total: Revenue Not Subject to 18M Cap Beginning Balance and Revenue EXPENDITURES Non-Site Expenditures	\$2.8 \$134.4 \$137.2 \$29.1 \$53.2 \$254.9 \$337.2 \$474.4 \$22,143.1 FY21 ACTUAL \$6,776.9	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0 \$21.2 \$51.9 \$0.00 \$73.1 \$273.1 \$273.1 \$273.1	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3 \$33.0 \$57.3 \$0.00 \$90.3 \$4,742.6 \$26,886.1 FY22 ACTUAL \$8,445.2
REVENUE NOT SUBJECT TO 18M CAP Consent Decrees Cost Recovery (A.R.S. 49-282)* Responsible Parties *Includes revenue from prior year packets Prospective Purchaser Agreement (A.R.S. 49-285.01) Interest (A.R.S. 49-282) Other Income Other Revenue Total: Revenue Not Subject to 18M Cap Beginning Balance and Revenue EXPENDITURES Non-Site Expenditures Site Expenditures	\$2.8 \$134.4 \$137.2 \$29.1 \$53.2 \$254.9 \$337.2 \$474.4 \$22,143.1 FY21 ACTUAL \$6,776.9 \$10,076.4	\$16,948.0 FY22 PROJECTION \$0.00 \$200.0 \$200.0 \$21.2 \$51.9 \$0.00 \$73.1 \$273.1 \$22,370.9 FY22 PROJECTION \$7,966.7 \$10,000.0	\$16,993.7 FY22 ACTUAL \$4,469.2 \$183.1 \$4,652.3 \$33.0 \$57.3 \$0.00 \$90.3 \$4,742.6 \$26,886.1 FY22 ACTUAL \$8,445.2 \$9,045.3

FY22 WQARF EXPENDITURE STATEMENT

Note:

All figures expressed in thousands.

CORE EXPENDITURES	FY23 SPENDING PLAN
WQARF Professional & Support Staff	\$4,941.2
Professional & Outside - Remedial Projects	\$157.0
Hydrologic Support & Assessment	\$1,408.9
Professional & Outside Hydrologic Support & Assessment	\$630.0
Emergency Response	\$359.3
Attorney General's Office	\$402.0
PRP Identification/Liability	\$75.0
Litigation	\$0.00
Appeals	\$0.00
Advisory Board	\$0.00
Rule Development	\$0.00
Community Involvement/General WQARF	\$0.00
Core Expenditures	\$7,973.4

REGISTRY SITES AND PRELIMINARY INVESTIGATIONS (PI)	FY23 SPENDING PLAN
RI/FS - Site-Specific WQARF	\$1,130.0
Clean up - Site-Specific WQARF	\$3,725.0
ERA	\$2,585.0
O&M	\$1,500.0
Community Involvement	\$20.0
Preliminary Investigations (PI)	\$1,500.0
Registry Sites & PI	\$10,460.0

Subtotal: WOARF Program	\$18,433,4
SIIIIIIIIAI: WUARF FIIIPIAIII	310.433.4

TRANSFERS AND DISBURSEMENTS	FY23 Spending Plan
Department of Health Services - Risk Assessment	\$0.00
Department of Water Resources - Appropriation Transfer Out	\$140.0
Aid to Municipalities	\$0.00
Voluntary Program	\$0.00
Subtotal: Transfers & Disbursements	\$140.0

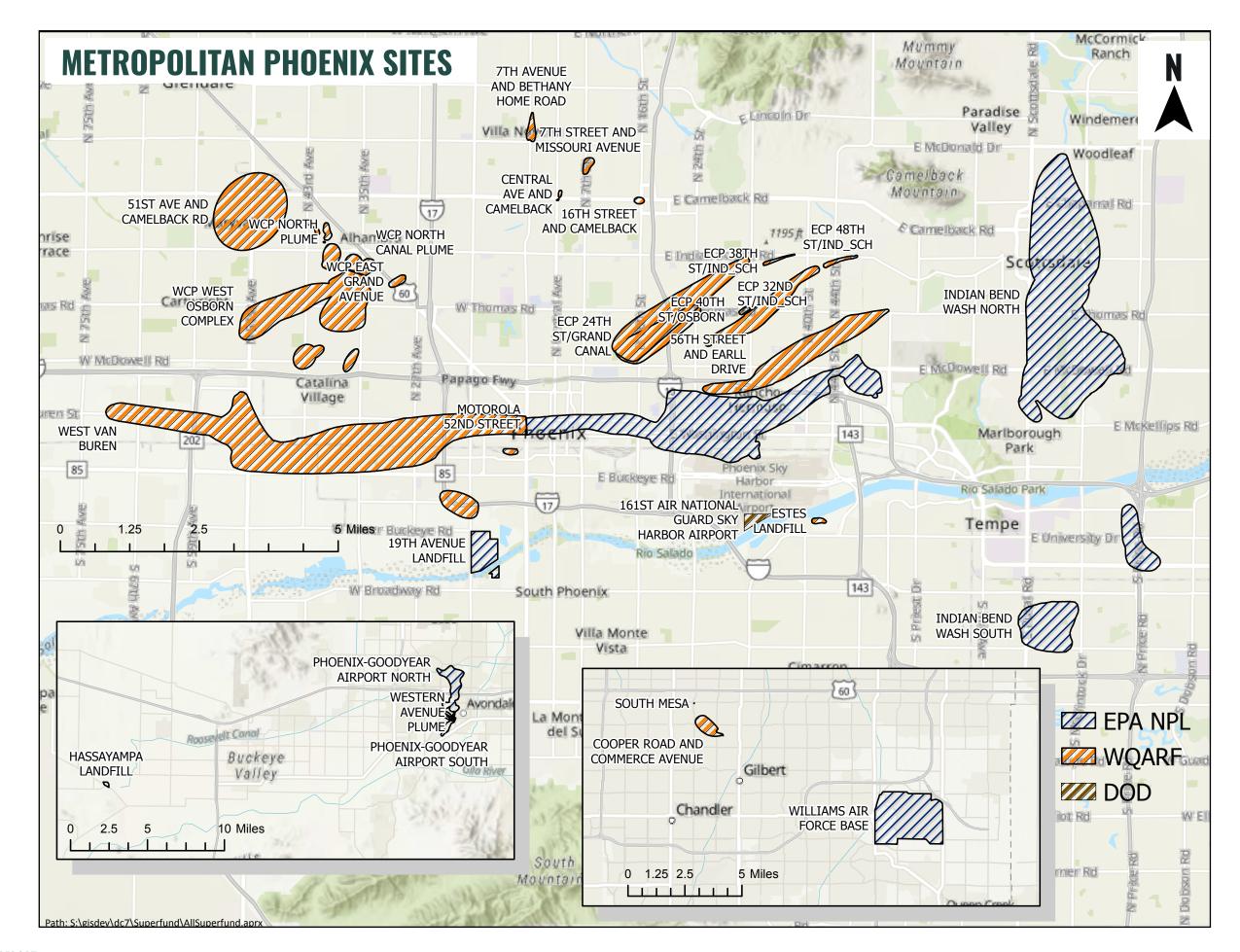
Total Disbursements	\$18.573.4
TOTAL DISDUESEMENTS	310.3/3.4

FY23 WQARF SITE BUDGET

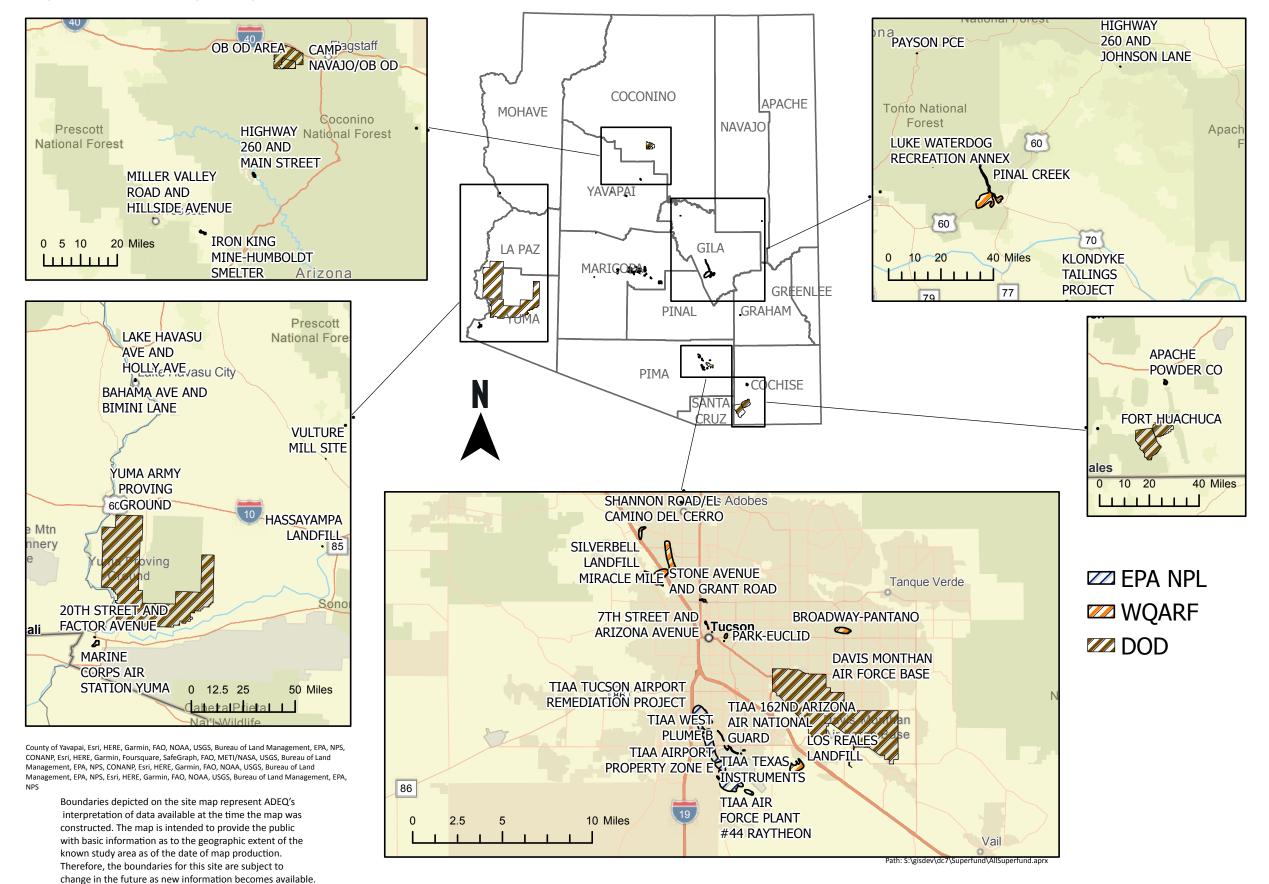
SITE	FY23 PROJECTED BUDGET
16TH STREET & CAMELBACK RD	\$25,000.00
20TH & FACTOR AVENUE	\$400,000.00
51ST & CAMELBACK	\$425,000.00
56TH STREET & EARLL DRIVE	\$25,000.00
7TH AVE & BETHANY HOME RD	\$300,000.00
7TH STREET & ARIZONA AVE	\$150,000.00
7TH STREET & MISSOURI AVE	\$275,000.00
BAHAMA & BIMINI	\$475,000.00
BROADWAY-PANTANO	\$450,000.00
CENTRAL & CAMELBACK	\$125,000.00
CENTRAL TUCSON PFAS PROJECT	\$1,500,000.00
COOPER & COMMERCE	\$125,000.00
ECP - 24TH & GRAND CANAL	\$250,000.00
ECP - 32ND & INDIAN SCHOOL RD	\$250,000.00
ECP - 38TH & INDIAN SCHOOL RD	\$250,000.00
ECP - 40TH & OSBORN RD	\$25,000.00
ECP - 48TH & INDIAN SCHOOL RD	\$25,000.00
ESTES LANDFILL	\$25,000.00
HIGHWAY 260 & JOHNSON LANE	\$75,000.00
HIGHWAY 260 & MAIN STREET	\$175,000.00
KLONDYKE MINE TAILINGS	\$25,000.00
LAKE HAVASU & HOLLY AVE	\$750,000.00
LOS REALES LANDFILL (old WQARF)	\$0.00
MILLER VALLEY RD & HILLSIDE AVE	\$500,000.00
MIRACLE MILE	\$400,000.00
PARK-EUCLID	\$300,000.00
PAYSON PCE (Town of Payson)	\$25,000.00
PINAL CREEK (old WQARF)	\$0.00
SHANNON RD/EL CAMINO DEL CERRO	\$650,000.00
SILVERBELL LANDFILL	\$0.00
SOUTH MESA	\$25,000.00
STONE AVE & GRANT RD	\$250,000.00
VULTURE MILL	\$25,000.00
WCP - EAST GRAND AVENUE	\$0.00
WCP - NORTH CANAL PLUME	\$150,000.00
WCP - NORTH PLUME	\$325,000.00
WCP - WEST OSBORN COMPLEX	\$200,000.00
WESTERN AVENUE	\$25,000.00
WEST VAN BUREN	\$0.00
VARIOUS PRELIMINARY INVESTIGATIONS	\$400,000.00

 $^{{\}it *Money reimbursed by Federal Projects Unit for cost recovery not included in sites total}$

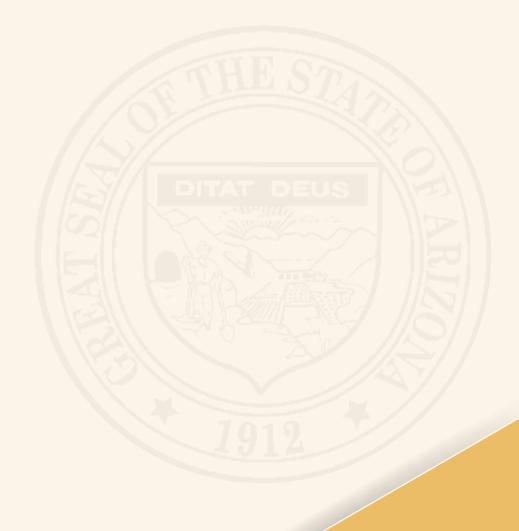




STATEWIDE SITES



30 | FIGURES | 31





WATER QUALITY ASSURANCE REVOLVING FUND FY22 ANNUAL REPORT

Sept. 1, 2022 EQR-22-13

Cover photo

Per- and polyfluoroalkyl substances-free, treated groundwater flows from the Central Tucson PFAS Project ion exchange demonstration groundwater treatment facility into a permitted storm drain in the City of Tucson to protect critical drinking water resources. Site characterization, remedy design, permitting, construction and system start-up were achieved within an aggressive timeframe of 18 months despite pandemic-related supply-chain challenges and earned the 2022 National Ground Water Association Outstanding Groundwater Remediation Project Award.