

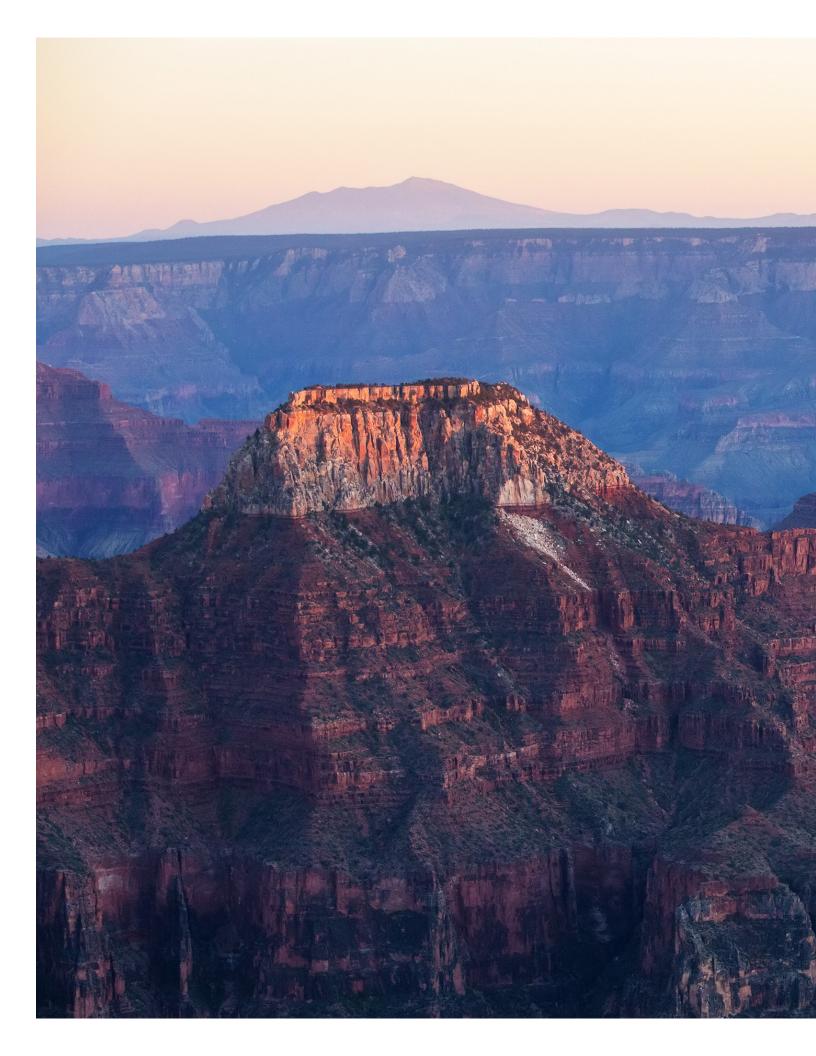


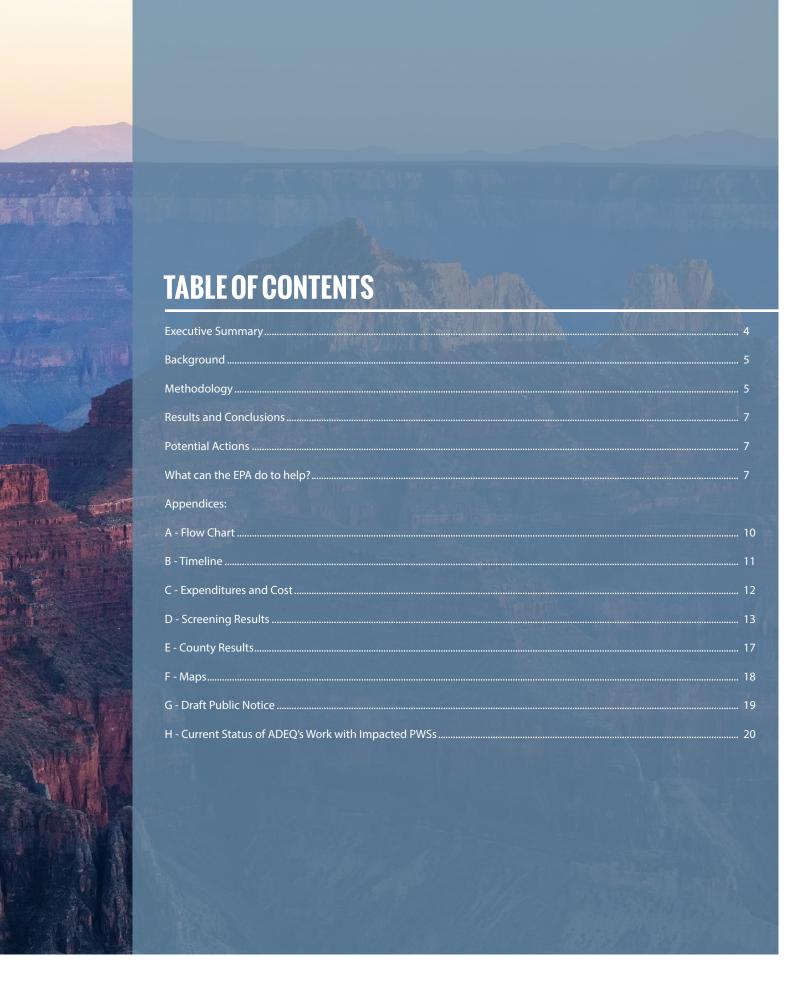


Arizona's Public Water System Screening for Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) Final Report

NOVEMBER 2018







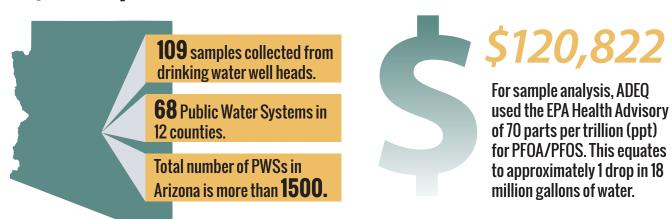
EXECUTIVE SUMMARY

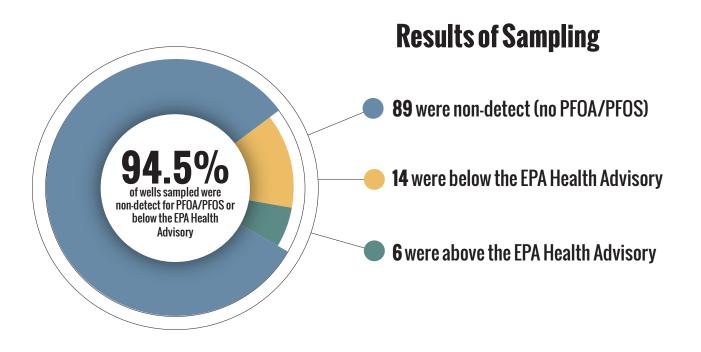
The Arizona Department of Environmental Quality (ADEQ) prepared this report for the U.S. Environmental Protection Agency (EPA) to fulfill the requirements of a multi-purpose grant. The purpose of the grant was to screen Public Water System (PWS) drinking water wells in Arizona potentially impacted by perfluorooctanoic acid (PFOA) and/or perfluorooctane sulfonate (PFOS) contamination.

The project focus was on PWSs near facilities that currently or historically may have used PFOA/PFOS. This included industrial, firefighting training facilities, manufacturing, airports and military sites. Research indicated that PFOA/PFOS compounds were not used on large-scale industrial applications in Arizona. There are no known facilities in Arizona that have manufactured these chemicals.

Data from facility analysis and sampling indicate that PFOA/PFOS are not widespread throughout Arizona and tends to be localized near potential sources.

Project Scope:





BACKGROUND

PFOA/PFOS are man-made chemicals that have been manufactured and used in a variety of industries since the 1940s. The compounds can be found in firefighting foams, food packaging, stain and water-repellent fabrics, Teflon™ and chemicals used at paper mills.

A growing awareness nationally about these chemicals and Unregulated Contaminant Monitoring Rule 3 (UCMR3) data sparked ADEQs interest in taking proactive steps to determine if these constituents were present in Arizona drinking water wells. ADEQ was awarded an EPA multi-purpose grant of \$120,822 on August 22, 2016 to sample PWS drinking water wells to determine if they had been impacted with PFOA/PFOS. The purpose of the grant was to further investigate potential risk to PWS drinking water wells that were not previously sampled that could be impacted by PFOA/PFOS contamination.*

*Data for this project came from samplina PWS drinkina water well heads; whereas, UCMR3, samples were collected at the entrance to the distribution system.

METHODOLOGY

ADEQ developed GIS maps, which showed facilities that currently or historically may have used PFOA/PFOS. ADEQ used Standard Industrial Classification Codes (SIC) and conducted extensive research to identify these facilities. Based on hydrogeologic data, ADEQ then identified PWS drinking water well locations within a two-mile radius of the facility. Non-regulated water systems were not included in this screening as that was outside the scope of this project.

Selection criteria for sampling was determined by:

- Aquifer characteristic evaluations of groundwater velocities and flow direction where adequate information was available.
- Well construction data evaluations to determine regional subsurface lithology.
- Flow direction analysis to identify wells located up gradient, cross gradient and down gradient of flow directions to ensure all wells that may have been impacted were sampled since local groundwater movement often varies from regional flow direction.

PWSs in this screening varied in number of customers served (Figure 1, pg 6). ADEQ identified 162 PWS drinking water wells for screening (Figure 2, pg 6). ADEQ determined 100 wells at 68 different PWSs met the selection criteria for sampling. ADEQ also received data from some PWSs for 9 additional wells (Figure 2). ADEQ requested sampling data for 8 other wells, but data were not received.

Sampling was conducted by ADEQ's contractor (P.G. Environmental) per the EPA approved sampling plan "ADEQ Quality Assurance and Sampling Plan for Polyfluorinated Compounds at Public Water Systems". Sampling protocols in this plan were strictly followed in order to eliminate false positives. Samples were transported within 24 hours to Eaton Eurofins, Inc. for analysis per EPA Analytical Method 537. Sampling was conducted from January through May 2018. Sampling data can be found in Appendix D.

If there was an exceedance of the EPA Health Advisory in the sample gathered at a PWS drinking water well head, ADEQ employed the EPA approved PFOA/PFOS Communications Plan and recommended the following Corrective Action(s) be considered by the PWS:

- **INFORM** PWS should issue a public notice (Appendix G) to affected customers about the levels of PFOA/PFOS in their drinking water.
- LIMIT EXPOSURE | Provide bottled water or an alternative source of drinking water to consumers while taking remedial action(s).
- TREAT or BLEND water source(s) to ensure drinking water at the entry point to the distribution system is below the EPA Health Advisory.

Figure 1:

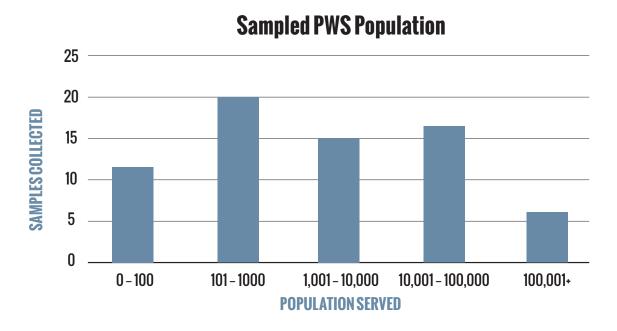
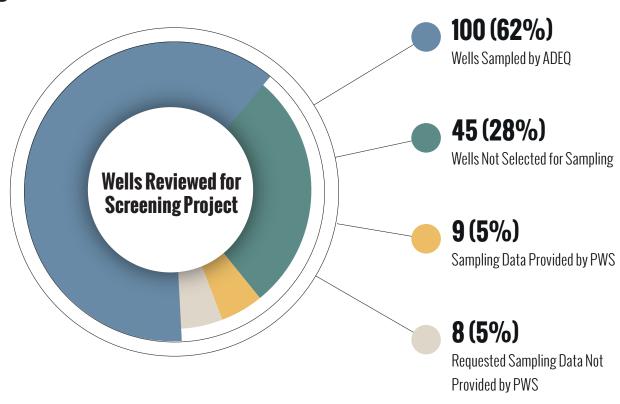


Figure 2:



RESULTS AND CONCLUSIONS

PFOA/PFOS contamination in Arizona PWSs is not widespread and tends to be near potential sources. Potential sources included industrial, firefighting training facilities, manufacturing, airports and military sites. Research of potential sources indicates PFOA/PFOS compounds were not used for large scale industrial applications in Arizona and there are no known facilities in Arizona that have manufactured these chemicals.

Out of over 1500 PWSs in Arizona, 68 were identified as having drinking water wells located near potential sources, and 109 wells met the selection criteria for sampling. Data showed 89 wells (81.7%) were non-detect, 14 wells (12.8%) were below the EPA Health Advisory and 6 wells (5.5%) were above the EPA Health Advisory. For those above the EPA Health Advisory, the data ranged from 72 to 166 ppt. Data is available in Appendix D.

ADEQ's first priority is to limit exposure through drinking water. For wells with sample data indicating PFOA/PFOS above the EPA Health Advisory, a communications plan was shared with the PWS. Because PFOA/PFOS is an unregulated compound, PWSs are working voluntarily with ADEQ to address the contamination. Information on the current status of ADEQ's work with impacted PWSs is available in Appendix H.

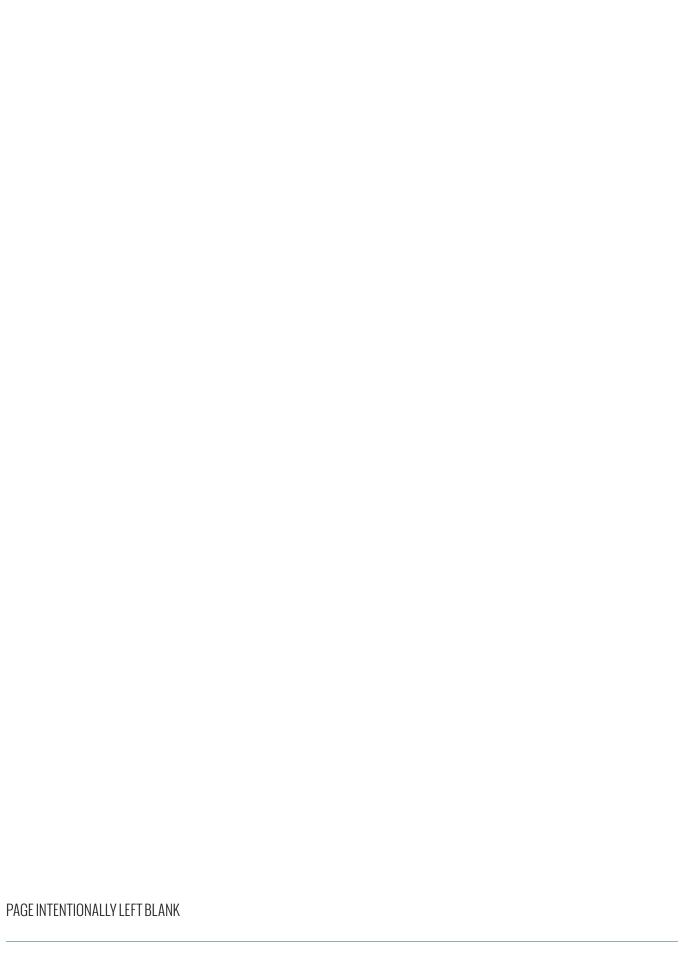
POTENTIAL ACTIONS

ADEQ is considering the following activities as part of our continuing effort to address concerns about PFOA/PFOS in Arizona:

- Develop a strategy to help drinking water systems impacted by PFOA/PFOS contamination.
- Provide a summary of sampling results of PFOA/PFOS contamination to industrial, firefighting training facilities, manufacturing, airports and military sites near wells where these contaminates were detected.
- Participate in the potentially changing regulatory landscape for PFOA/PFOS and other Poly- and Perfluorinated compounds as additional information becomes available.

WHAT CAN THE EPA DO TO HELP?

- Quickly and efficiently establish a Maximum Contaminate Level (MCL) for PFOA/PFOS.
- Evaluate the need for a MCL for other Poly- and Perfluorinated compounds in drinking water.
- Provide funding to resample wells where results were above the EPA Health Advisory to confirm the results of the initial screening project.
- Provide funding to locate private drinking water wells and monitoring wells in the areas where contaminates were detected. Analyze the hydrogeologic data and sample these wells for PFOA/PFOS when appropriate.
- Keep ADEQ informed on current information regarding Poly- and Perfluorinated compounds, including include health effects, regulation and analytical data collected in Arizona.
- Continue to develop analytical methods for Poly- and Perfluorinated compounds in air, soil and water.



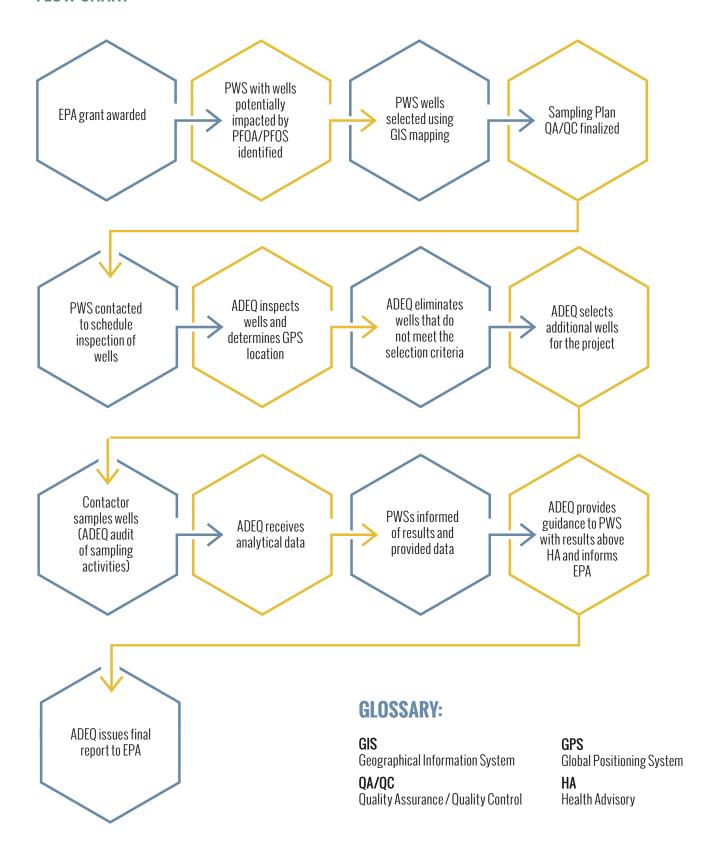


APPENDICES

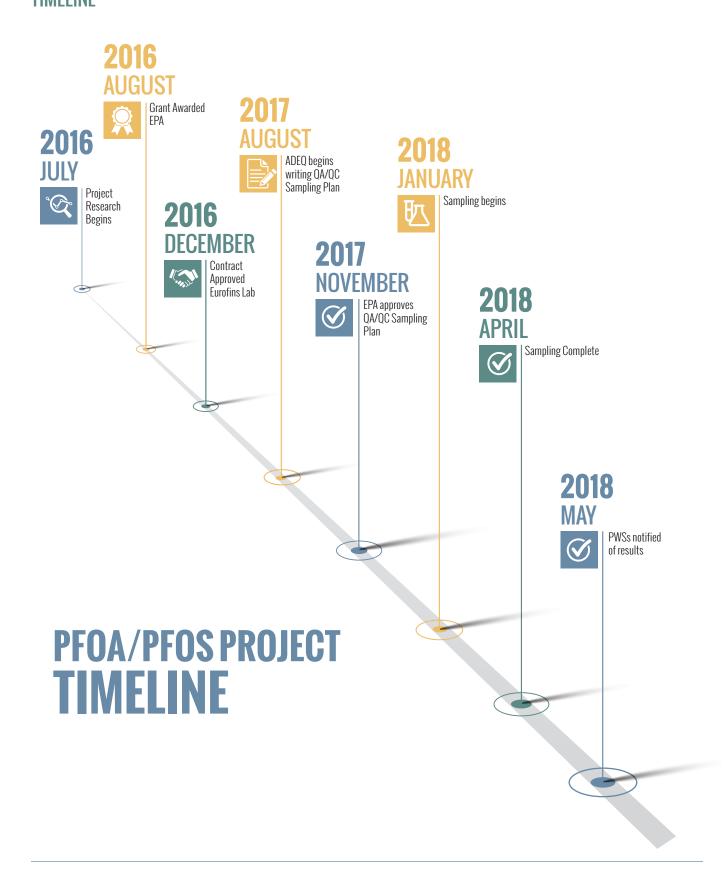


APPENDIX A

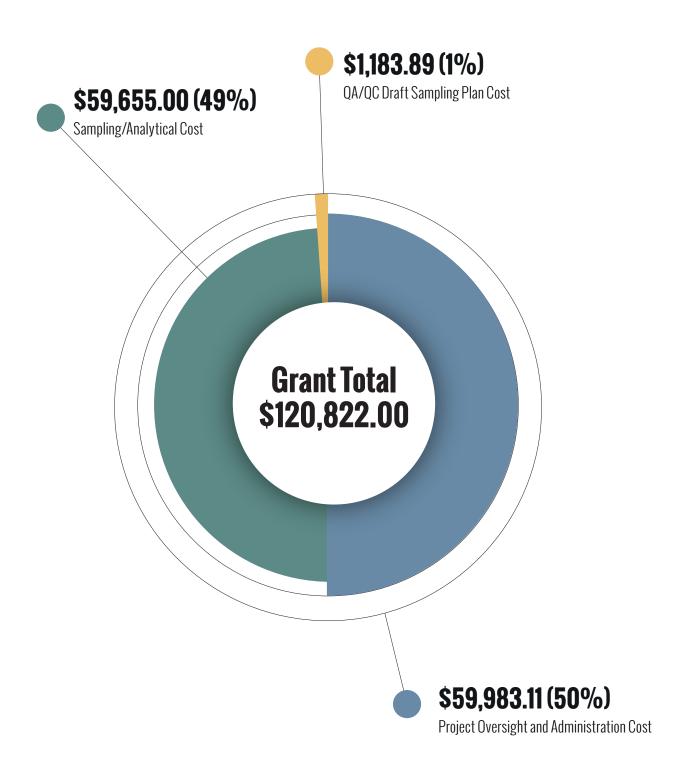
FLOW CHART



APPENDIX B TIMELINE



APPENDIX C EXPENDITURES AND COSTS



APPENDIX D SCREENING RESULTS

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07090 CHANDLER CITY OF 55-605314 ND 07095 MESA CITY OF 55-585924 ND 07098 SCOTTSDALE CITY OF 55-626827 ND 07098 SCOTTSDALE CITY OF 55-572377 ND 07100 TEMPE CITY OF 55-628166 56.00 07100 TEMPE CITY OF 55-628164 29.10	11328	COPPER MOUNTAIN RANCH CFD	55-620626	ND
07095 MESA CITY OF 55-585924 ND 07098 SCOTTSDALE CITY OF 55-626827 ND 07098 SCOTTSDALE CITY OF 55-572377 ND 07100 TEMPE CITY OF 55-628166 56.00 07100 TEMPE CITY OF 55-628164 29.10	07911	FAITH FAMILY CHURCH	55-215548	ND
07098 SCOTTSDALE CITY OF 55-626827 ND 07098 SCOTTSDALE CITY OF 55-572377 ND 07100 TEMPE CITY OF 55-628166 56.00 07100 TEMPE CITY OF 55-628164 29.10	07090	CHANDLER CITY OF	55-605314	ND
07098 SCOTTSDALE CITY OF 55-572377 ND 07100 TEMPE CITY OF 55-628166 56.00 07100 TEMPE CITY OF 55-628164 29.10	07095	MESA CITY OF	55-585924	ND
07100 TEMPE CITY OF 55-628166 56.00 07100 TEMPE CITY OF 55-628164 29.10	07098	SCOTTSDALE CITY OF	55-626827	ND
07100 TEMPE CITY OF 55-628164 29.10	07098	SCOTTSDALE CITY OF	55-572377	ND
	07100	TEMPE CITY OF	55-628166	56.00
07093 GLENDALE CITY OF 55-217517 17.70	07100	TEMPE CITY OF	55-628164	29.10
	07093	GLENDALE CITY OF	55-217517	17.70

APPENDIX D CONT.

SCREENING RESULTS

07046 LIBERTY WATER LPSCO 55.611729 33.00 07541 X PLICIT SHOW CLUB 55.207666 ND 07046 LIBERTY WATER LPSCO 55.611726 45.00 07484 OLIVE AVENUE HOA 55.599021 ND 07094 GOODYEAR WATER DEPARTMENT 55.218274 ND 07094 GOODYEAR WATER DEPARTMENT 55.282683 ND 07094 GOODYEAR WATER DEPARTMENT 55.582083 ND 07094 GOODYEAR WATER DEPARTMENT 55.501892 ND 07094 GOODYEAR WATER DEPARTMENT 55.501892 ND 07094 GOODYEAR WATER DEPARTMENT 55.601892 ND 07094 GOODYEAR WATER DEPARTMENT 55.601892 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55.601892 ND 14015 SOMERTON CITY OF 55.207524 ND 14015 SOMERTON CITY OF 55.207524 ND 15013 PARKER TOWN OF 55.60139 ND 15013 PARKER TOWN OF 55.60139 ND	PWS ID#	PWS Name	Well#	PFOS+ PFOA ng/L
07046 LIBERTY WATER LPSCO 55.61726 45.00 07484 OLIVE AVENUE HOA 55.599021 ND 07094 GOODYEAR WATER DEPARTMENT 55.218768 ND 07094 GOODYEAR WATER DEPARTMENT 55.218274 ND 07713 TRIPLE G DAIRY 55.582083 ND 07094 GOODYEAR WATER DEPARTMENT 55.50892 ND 07094 GOODYEAR WATER DEPARTMENT 55.50892 ND 07094 GOODYEAR WATER DEPARTMENT 55.609571 ND 14075 SUN LEISURE ESTAITS UTILLITES COMPANY 55.610440 ND 14075 SUN LEISURE ESTAITS UTILLITES COMPANY 55.60440 ND 14015 SOMERTON CITY OF 55.5207524 ND 14015 SOMERTON CITY OF 55.555731 ND 15013 PARKER TOWN OF 55.601339 ND 15013 PARKER TOWN OF 55.60138 ND 08020 FLAGSTAFF CITY OF 55.907084 ND 08032 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55.603477	07046	LIBERTY WATER LPSCO	55-611729	33.00
07484 OLIVE AVENUE HOA 55,599021 ND 07094 GOODYEAR WATER DEPARTMENT 55,218768 ND 07094 GOODYEAR WATER DEPARTMENT 55,218274 ND 07713 TRIPLE G DAIRY 55,582083 ND 07094 GOODYEAR WATER DEPARTMENT 55,501892 ND 07094 GOODYEAR WATER DEPARTMENT 55,609571 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55,600440 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55,600440 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55,601440 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55,601340 ND 15013 PARKER TOWN OF 55,601339 ND 05031 PARKER TOWN OF 55,601380 ND 0	07541	X PLICIT SHOW CLUB	55-217656	ND
07094 GOODYEAR WAITER DEPARTMENT 55.218768 ND 07094 GOODYEAR WAITER DEPARTMENT 55.218274 ND 07713 TRIPLE GDAIRY 55.582083 ND 07094 GOODYEAR WAITER DEPARTMENT 55.501892 ND 07094 GOODYEAR WAITER DEPARTMENT 55.609571 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55.610440 ND 14015 SOMERTON CITY OF 55.207524 ND 14015 SOMERTON CITY OF 55.55731 ND 15013 PARKER TOWN OF 55.601139 ND 15013 PARKER TOWN OF 55.60138 ND 03008 FLAGSTAFF CITY OF 55.907084 ND 08032 PECOR WAITER - MOHAVE 55.601347 ND 08062 EPCOR WAITER - LAKE MOHAVE HIGHLANDS 55.603417 ND 08068 EPCOR WAITER - NORTH MOHAVE VALLEY 55.211751 ND 08068 EPCOR WAITER - NORTH MOHAVE VALLEY 55.505168 ND 08098 MOHAVE CITY PARKS DEPT DAVIS CAMP	07046	LIBERTY WATER LPSCO	55-611726	45.00
07094 GOODYEAR WATER DEPARTMENT 55.218274 ND 07713 TRIPLE GDAIRY 55.582083 ND 07094 GOODYEAR WATER DEPARTMENT 55.501892 ND 07094 GOODYEAR WATER DEPARTMENT 55.609571 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55.610440 ND 14015 SOMERTON CITY OF 55.207524 ND 14015 SOMERTON CITY OF 55.55731 ND 15013 PARKER TOWN OF 55.60139 ND 15013 PARKER TOWN OF 55.60139 ND 03008 FLAGSTAFF CITY OF 55.907084 ND 08032 EPCOR WATER - MOHAVE 55.60138 ND 08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55.603477 ND 08062 EPCOR WATER - LORTH MOHAVE VALLEY 55.211751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55.809611 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55.80961 ND 08069 MOHAVE CITY PARKS DEPT DAVIS CAMP	07484	OLIVE AVENUE HOA	55-599021	ND
07713 TRIPLE G DAIRY 55 582083 ND 07094 GOODYEAR WATER DEPARTMENT 55 501892 ND 07094 GOODYEAR WATER DEPARTMENT 55 609571 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55 610440 ND 14015 SOMERTON CITY OF 55 207524 ND 14015 SOMERTON CITY OF 55 555731 ND 15013 PARKER TOWN OF 55 601139 ND 15013 PARKER TOWN OF 55 601138 ND 03008 FLAGSTAFF CITY OF 55 907084 ND 08032 EPCOR WATER - MOHAVE 55 803477 ND 08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55 803417 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55 211751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55 589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55 505168 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55 54186 ND 08038 VALLEY PIONEERS WATER COMPANY I	07094	GOODYEAR WATER DEPARTMENT	55-218768	ND
07094 GOODYEAR WATER DEPARTMENT 55.501892 ND 07094 GOODYEAR WATER DEPARTMENT 55.609571 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 56.610440 ND 14015 SOMERTION CITY OF 55.207524 ND 14015 SOMERTION CITY OF 55.555731 ND 15013 PARKER TOWN OF 55.601139 ND 15013 PARKER TOWN OF 55.601138 ND 03008 FLAGSTAFF CITY OF 55.907084 ND 08032 EPCOR WATER - MOHAVE 55.603477 ND 08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55.603477 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55.211751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55.589061 ND 08098 MOHAVE CHTY PARKS DEPT DAVIS CAMP 55.505168 ND 08098 MOHAVE CHTY PARKS DEPT DAVIS CAMP 55.54186 ND 08098 MOHAVE CHTY PARKS DEPT DAVIS CAMP 55.623084 ND 08038 VALLEY PIO	07094	GOODYEAR WATER DEPARTMENT	55-218274	ND
07094 GOODYEAR WATER DEPARTMENT 55.609571 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55.610440 ND 14075 SUN LEISURE ESTATES UTILITIES COMPANY 55.610440 ND 14015 SOMERTION CITY OF 55.207524 ND 14015 SOMERTION CITY OF 55.555731 ND 15013 PARKER TOWN OF 55.601139 ND 15013 PARKER TOWN OF 55.601138 ND 03008 FLAGSTAFF CITY OF 55.907084 ND 08032 EPCOR WATER - MOHAVE 55.603477 ND 08062 EPCOR WATER - MOHAVE HIGHLANDS 55.603477 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55.21751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55.21751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55.509061 ND 08098 MOHAVE CHTY PARKS DEPT DAVIS CAMP 55.505168 ND 08098 MOHAVE CHTY PARKS DEPT DAVIS CAMP 55.505168 ND 08098 WOHAVE CHTY PARKS DEPT DAVIS CAMP 55.50384 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55.623082 ND 08020 KINGMAN MUNICIPAL WATER 55.905228 ND 08020 KINGMAN MUNICIPAL WATER 55.612657 ND 08020 KINGMAN MUNICIPAL WATER 55.612664 ND 13045 PRESCOTT CITY OF 55.21087 ND 13246 USES PHE AIRPORT FIRE CENTER 55.57507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55.552667 ND 07045 WICKENBURG TOWN OF 55.624479 ND 07045	07713	TRIPLE G DAIRY	55-582083	ND
14075 SUN LEISURE ESTATES UTILITIES COMPANY 55-610440 ND 14015 SOMERTON CITY OF 55-207524 ND 14015 SOMERTON CITY OF 55-555731 ND 15013 PARKER TOWN OF 55-601139 ND 15013 PARKER TOWN OF 55-601138 ND 03008 FLAGSTAFF CITY OF 55-907084 ND 08032 EPCOR WATER - MOHAVE 55-603477 ND 08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55-603417 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-217151 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-544186 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-622657 ND 08020 KINGM	07094	GOODYEAR WATER DEPARTMENT	55-501892	ND
14015 SOMERTON CITY OF 55-207524 ND 14015 SOMERTON CITY OF 55-555731 ND 15013 PARKER TOWN OF 55-601139 ND 15013 PARKER TOWN OF 55-601138 ND 03008 FLAGSTAFF CITY OF 55-907084 ND 08032 EPCOR WATER - MOHAVE 55-603477 ND 08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55-603417 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-211751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-541866 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL W	07094	GOODYEAR WATER DEPARTMENT	55-609571	ND
14015 S.D.MERTON.CITY OF 55.555731 N.D. 15013 PARKER TOWN OF 55.601139 N.D. 15013 PARKER TOWN OF 55.601138 N.D. 15013 PARKER TOWN OF 55.601138 N.D. 03008 FLAGSTAFF CITY OF 55.907084 N.D. 080032 EPCOR WATER - MOHAVE 55.603477 N.D. 08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55.603417 N.D. 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55.211751 N.D. 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55.589061 N.D. 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55.505168 N.D. 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55.544186 N.D. 08038 VALLEY PIONEERS WATER COMPANY INC 55.623084 N.D. 08038 VALLEY PIONEERS WATER COMPANY INC 55.623082 N.D. 08020 KINGMAN MUNICIPAL WATER 55.905228 N.D. 08020 KINGMAN MUNICIPAL WATER 55.612667 N.D. 08020 KINGMAN MUNICIPAL WATER 55.612664 N.D. 13045 PRESCOTT CITY OF 55.219158 N.D. 13045 PRESCOTT CITY OF 55.212087 N.D. 13246 USFS PNF AIRPORT FIRE CENTER 55.577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55.552567 N.D. 07045 WICKENBURG TOWN OF 55.624479 N.D.	14075	SUN LEISURE ESTATES UTILITIES COMPANY	55-610440	ND
15013 PARKER TOWN OF 55-601139 ND 15013 PARKER TOWN OF 55-601138 ND 03008 FLAGSTAFF CITY OF 55-907084 ND 08032 EPCOR WATER - MOHAVE 55-603477 ND 08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55-603417 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-211751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-505168 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-544186 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-9152657 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 13045 PRESCOTT CITY OF 55-219158 ND	14015	SOMERTON CITY OF	55-207524	ND
15013	14015	SOMERTON CITY OF	55-555731	ND
03008 FLAGSTAFF CITY OF 55-907084 ND 08032 EPCOR WATER - MOHAVE 55-603477 ND 08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55-603417 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-211751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-89061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-505168 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-544186 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261	15013	PARKER TOWN OF	55-601139	ND
08032 EPCOR WATER - MOHAVE 55-603477 ND 08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55-603417 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-211751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-505168 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-544186 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-219087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-522567 ND 07045 <td>15013</td> <td>PARKER TOWN OF</td> <td>55-601138</td> <td>ND</td>	15013	PARKER TOWN OF	55-601138	ND
08062 EPCOR WATER - LAKE MOHAVE HIGHLANDS 55-603417 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-211751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-505168 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-544186 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-21907 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27-40 13261 TRI-CITY PREP HIGH SCHOOL 55-522667 ND 07045 WICKENBURG TOWN OF 55-624479 ND	03008	FLAGSTAFF CITY OF	55-907084	ND
08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-211751 ND 08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-505168 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-544186 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-219158 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08032	EPCOR WATER - MOHAVE	55-603477	ND
08068 EPCOR WATER - NORTH MOHAVE VALLEY 55-589061 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-505168 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-544186 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-52567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08062	EPCOR WATER - LAKE MOHAVE HIGHLANDS	55-603417	ND
08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55.505168 ND 08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55.544186 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55.623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55.623082 ND 08020 KINGMAN MUNICIPAL WATER 55.905228 ND 08020 KINGMAN MUNICIPAL WATER 55.612657 ND 08020 KINGMAN MUNICIPAL WATER 55.612664 ND 13045 PRESCOTT CITY OF 55.219158 ND 13045 PRESCOTT CITY OF 55.212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55.577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55.552567 ND 07045 WICKENBURG TOWN OF 55.624479 ND	08068	EPCOR WATER - NORTH MOHAVE VALLEY	55-211751	ND
08098 MOHAVE CNTY PARKS DEPT DAVIS CAMP 55-544186 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-517507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08068	EPCOR WATER - NORTH MOHAVE VALLEY	55-589061	ND
08038 VALLEY PIONEERS WATER COMPANY INC 55-623084 ND 08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08098	MOHAVE CNTY PARKS DEPT DAVIS CAMP	55-505168	ND
08038 VALLEY PIONEERS WATER COMPANY INC 55-623082 ND 08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08098	MOHAVE CNTY PARKS DEPT DAVIS CAMP	55-544186	ND
08020 KINGMAN MUNICIPAL WATER 55-905228 ND 08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08038	VALLEY PIONEERS WATER COMPANY INC	55-623084	ND
08020 KINGMAN MUNICIPAL WATER 55-612657 ND 08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08038	VALLEY PIONEERS WATER COMPANY INC	55-623082	ND
08020 KINGMAN MUNICIPAL WATER 55-612664 ND 13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08020	KINGMAN MUNICIPAL WATER	55-905228	ND
13045 PRESCOTT CITY OF 55-219158 ND 13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08020	KINGMAN MUNICIPAL WATER	55-612657	ND
13045 PRESCOTT CITY OF 55-212087 ND 13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	08020	KINGMAN MUNICIPAL WATER	55-612664	ND
13246 USFS PNF AIRPORT FIRE CENTER 55-577507 27.40 13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	13045	PRESCOTT CITY OF	55-219158	ND
13261 TRI-CITY PREP HIGH SCHOOL 55-552567 ND 07045 WICKENBURG TOWN OF 55-624479 ND	13045	PRESCOTT CITY OF	55-212087	ND
07045 WICKENBURG TOWN OF 55-624479 ND	13246	USFS PNF AIRPORT FIRE CENTER	55-577507	27.40
	13261	TRI-CITY PREP HIGH SCHOOL	55-552567	ND
04032 PAYSON TOWN OF 55-568624 ND	07045	WICKENBURG TOWN OF	55-624479	ND
	04032	PAYSON TOWN OF	55-568624	ND

APPENDIX D CONT.

SCREENING RESULTS

PWS ID#	PWS Name	Well#	PFOS+ PFOA ng/L
04032	PAYSON TOWN OF	55-521982	14.90
04032	PAYSON TOWN OF	55-564016	ND
04032	PAYSON TOWN OF	55-567988	ND
13036	JACKSON ACRES DWID	55-636907	6.80
13408	BEVERLY GARDENS TRAILER PARK	55-528525	4.00
13160	DRY GULCH WATER COMPANY	55-516466	166.00
03003	ARIZONA WATER CO - SEDONA	55-566709	ND
03003	ARIZONA WATER CO - SEDONA	55-616656	ND
13041	OAK CREEK WATER CO 1	55-562092	ND
13041	OAK CREEK WATER CO 1	55-603919	ND
03073	FOREST HIGHLANDS WATER COMPANY	55-562728	ND
07079	VALLEY UTILITIES WATER COMPANY GLENDALE	55-639720	ND
07079	VALLEY UTILITIES WATER COMPANY GLENDALE	55-208819	ND
07033	TOWN OF QUEEN CREEK	55-209407	ND
07021	COUNTRY CLUB ACRES WATER INC	55-505533	ND
07021	COUNTRY CLUB ACRES WATER INC	55-605607	ND
07307	ADJC ADOBE MOUNTAIN SCHOOL	55-614010	ND
07069	GILA BEND TOWN OF	55-573124	ND
07069	GILA BEND TOWN OF	55-222981	ND
07069	GILA BEND TOWN OF	55-504088	ND
08015	EPCOR WATER - LAKE HAVASU	55-594370	ND
08015	EPCOR WATER - LAKE HAVASU	55-221932	ND
04008	CITY OF GLOBE	55-526251	ND
04008	CITY OF GLOBE	55-611121	ND
08081	GOLDEN VALLEY IMPROVEMENT DISTRICT	55-530666	ND
08081	GOLDEN VALLEY IMPROVEMENT DISTRICT	55-530665	ND
07789	DOUBLETREE PAPER MILL	55-909462	ND
03048	ANASAZI WATER COMPANY	55-560179	ND
20092	SIERRA COURT TRAILER PARK	55-603669	ND
12004	NOGALES CITY OF	55-603394	ND
12004	NOGALES CITY OF	55-603393	ND
12004	NOGALES CITY OF	55-625344	ND

APPENDIX D CONT.

SCREENING RESULTS

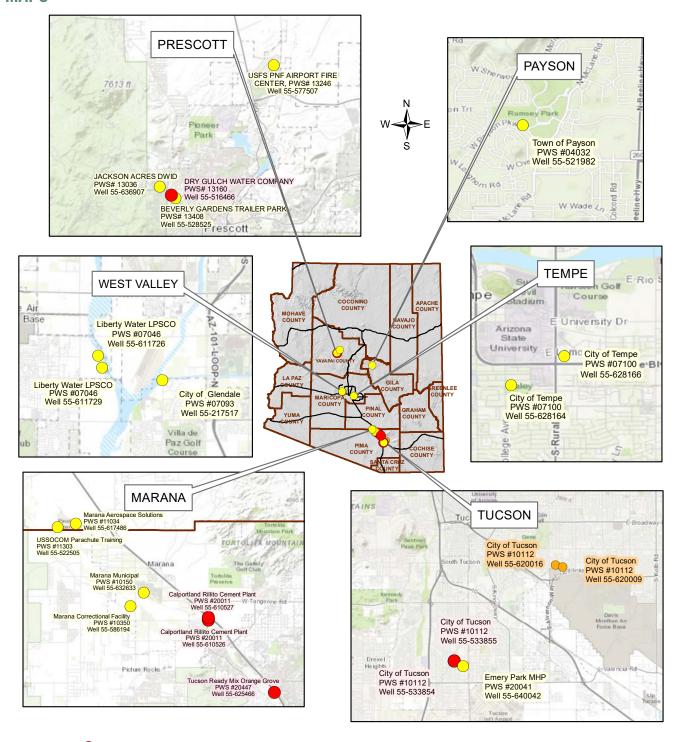
PWS ID#	PWS Name	Well #	PFOS+ PFOA ng/L
12004	NOGALES CITY OF	55-603392	ND
12004	NOGALES CITY OF	55-574906	ND
12004	NOGALES CITY OF	55-574907	ND
02010	BELLA VISTA CITY WATER SYSTEM	55-610125	ND
10357	METROPOLITAIN DWID	55-208091	ND
03015	MOUNTAIN DELL WATER INC	55-802025	ND
03015	MOUNTAIN DELL WATER INC	55-802024	ND
13063	PRESCOTT VALLEY WD LOWER SYSTEM	55-612332	ND
13063	PRESCOTT VALLEY WD LOWER SYSTEM	55-613021	ND
13063	PRESCOTT VALLEY WD LOWER SYSTEM	55-550395	ND
20011	CALPORTLAND RILLITO CEMENT PLANT	55-610526	72
20011	CALPORTLAND RILLITO CEMENT PLANT	55-610527	76
20447	TUCSON READY MIX ORANGE GROVE	55-625466	86

APPENDIX E COUNTY RESULTS

County	# of Samples	ND	Detects Below HA	Above HA
APACHE	0	0	0	0
COCHISE	6	6	0	0
COCONINO	8	8	0	0
GILA	6	5	1	0
GRAHAM	0	0	0	0
GREENLEE	0	0	0	0
MARICOPA	31	26	5	0
MOHAVE	15	15	0	0
NAVAJO	1	1	0	0
PIMA	15	7	3	5
PINAL	3	1	2	0
SANTA CRUZ	6	6	0	0
YAVAPAI	12	8	3	1
YUMA	4	4	0	0
LA PAZ	2	2	0	0

APPENDIX F

MAPS



- Above Health Advisory
- Sampled, Below Health Advisory
- Outside Project Scope, Above HA

This map is for general reference only and may not be all inclusive. ADEQ program's data collection efforts are ongoing. More detailed information and specific locations can be obtained by contacting the Arizona Department of Environmental Quality.

Document Path: S:\gisdev\jr4\Data or Work Requests\2018\WQ\Grants\PFAS_Report_082218_PORTRAIT.mxd

APPENDIX G DRAFT PUBLIC NOTICE

Notice in response to EPA Drinking Water Health Advisories for PFOS and PFOA

On May 19, 2016, the Environmental Protection Agency (EPA) issued a health advisory regarding levels of Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) in drinking water. The health advisory limit is combined concentrations of PFOA and PFOS of 0.070 ug/L (parts per billion).

Recently, the Arizona Department of Environmental Quality (ADEQ) sampled PWS Name wells and found these chemicals in concentrations above the health advisory limits. We understand this information may cause you to be concerned. PWS Name is conducting regular sampling and analysis of our water sources to ensure that customers continue to receive drinking water that is in compliance with applicable health and environmental regulations.

PWS Name is notifying its customers that the health advisory levels are calculated to make the public aware of potential adverse effects on the most sensitive populations; fetuses during pregnancy, breastfed infants, and people with immunity issues. Though no harm is imminent, sensitive populations may seek an alternative water source with PFOA and PFOS levels below 70 ppt. Parents with formula-fed infants should consider using formula that does not require adding water or using an alternative source for infant consumption.

PWS Name is working with state and federal officials to find a long-term solution regarding PFOA and PFOS. In addition, we are taking the following corrective actions PWS should list planed corrective actions here.

To the extent that you would like more information regarding PFOA, PFOS, their health effects or the basis for the EPA's actions, the EPA's health advisory can be found on their website.

https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

APPENDIX H

CURRENT STATUS OF ADEQ'S WORK WITH IMPACTED PWSs

PWS#	PWS Name	Data Source	Current Status
AZ0420447	Tucson Ready Mix	ADEQ	Bottled water provided: ADEQ regional investigation ongoing
AZ0420011	Calportland Rillito Cement	ADEQ	Bottled water provided; ADEQ regional investigation ongoing
AZ0413160	Dry Gulch Water Company	ADEQ	Notice posted: treatment being considered
AZ408001	Oatman Water Company	UCMR3	Meeting the Health Advisory; ADEQ met with PWS; new plans have been submitted
AZ0407046	Liberty Water LPSCO	UCMR3	Granular Activated Carbon (GAC) filters installed at impacted wells
AZ0407100	City of Tempe	UCMR3	Wells are offline: ADEQ resampled at the well head
AZ0410112	City of Tucson	UCMR3, City of Tucson	Wells are offline: ADEQ met with City to discuss treatment implementation: ADEQ regional investigation ongoing
AZO4 (all Marana PWS)	Town of Marana	UCMR3, Town of Marana	ADEQ is working to support Town efforts to install treatment: ADEQ regional investigation ongoing

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azdeq.govNovember 2018
Publication Number: EQR-18-13