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AGENCY NAME: Arizona Department of Water Resources
TITLE: Arizona, Southwestern US, Groundwater-Level Network
Final Report to Provide Persistent Data Services to the
NGWMN Data Portal; Expansion of Sites; Fill Metadata
Gaps in Information at Existing Sites

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TERM COVERED: 12/30/2020 – 12/29/2022

DATE OF FINAL REPORT: 3/29/2023

**USGS National Ground-Water Monitoring Network Cooperative Agreement
Arizona Department of Water Resources, Southwestern US, Groundwater-Level Network
Final Report as Existing Data Provider: Expansion of Sites & Fill Metadata Gaps at Existing Sites**

March 29, 2023

Overview of Work

The Arizona Department of Water Resources (ADWR) performed work as an existing data provider with the USGS National Ground-Water Monitoring Network (NGWMN) per Cooperative Agreement Number: #G20AC00379, as awarded for the grant period 12/30/2020 – 12/29/2022. This technical report summarizes work performed and results obtained.

As an existing data provider, the following work was conducted:

Objective 2B: Expansion of sites.

- Evaluate and select between 100 and 200 new sites for the NGWMN;
- Classify selected sites into subnetworks and monitoring categories;
- Populate the NGWMN Well Registry with site and network information;
- Provide water level, lithology, and well construction data; and
- Document field and data management practices.

Objective 3: Fill metadata gaps at existing sites.

- Sounding wells to determine total depth at 10 well sites;
- GPS update of latitude/longitude at 25 well sites;
- GPS or leveling of land surface altitude and/or measuring points at 25 well sites;
- Research well logs for 22 existing NGWMN sites;
- Entry of data collected under this objective into the NGWMN Well Registry.

Existing Water-Level Network - Background

With the establishment of the Arizona Department of Water Resources (ADWR) in 1980, ADWR assumed responsibility from the U.S. Geological Survey (USGS) for the collection of groundwater levels in wells statewide. ADWR was trained by and adopted all USGS data collection protocols for well and spring site inventories, water-levels, water quality, and well discharge measurements. The Department also received a copy of the USGS Ground Water Site Inventory (GWSI) database which has been continually maintained and updated by ongoing field investigations through the statewide network of water level sites:

<https://www.azwater.gov/gwsi/SearchGWSI.aspx>

Principal or major aquifers monitored by ADWR include the following: Basin and Range aquifers (Basin-fill aquifers and Basin Carbonate-rock aquifers); Colorado Plateau aquifers (Mesa Verde aquifer, Dakota-Glen Canyon aquifer system, and Coconino- De Chelly aquifer) and a general category, Other aquifers.

ADWR's initial project to become a new data provider added 5 sites in a 2016 grant. ADWR's second project with the NGWMN added 40 sites in a 2018 grant. Eight (8) of the 45 sites are within the Colorado Plateau Principal Aquifer (PA), 28 are within the Basin and Range PA, and 9 are within the Other Aquifer PA classification (see Figure 1). ADWR's third project with the NGWMN, 2020 Round 1 grant was to provide persistent data services to the Network. This report summarizes ADWR's fourth project with the NGWMN, 2020 Round 2 grant. For a more detailed understanding of ADWR's existing statewide water level network and background, see ADWR's initial project Final Report (ADWR, 2018).

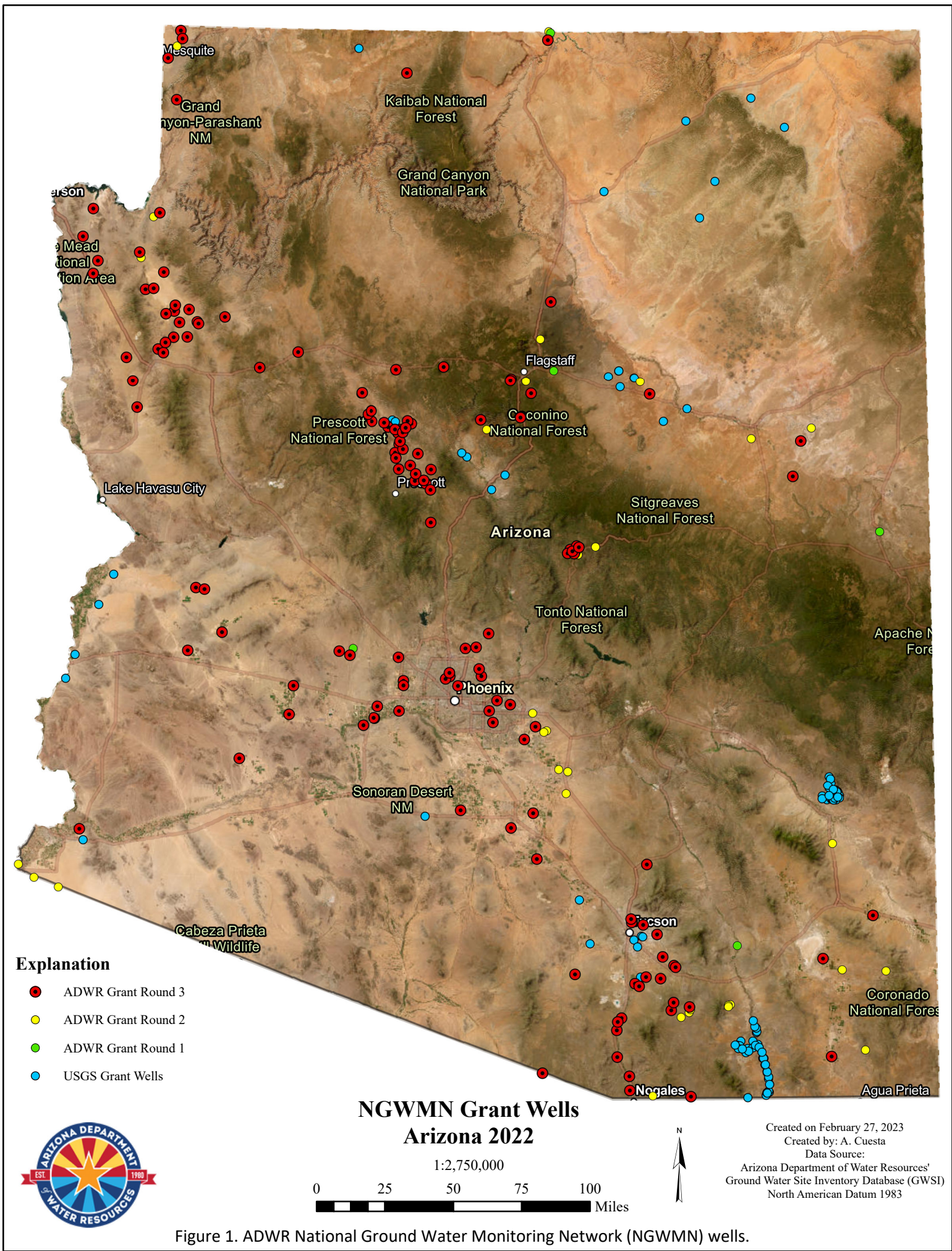
Description of Objective 2B Work: Expansion of Sites

ADWR added 155 new sites to the NGWMN this grant period, providing well registry, well construction, lithology, and water level data to the USGS Network-Portal (see Figure 1). Over 300 potential new sites were considered for inclusion in the NGWMN. Sites were selected to better fill gaps and, or supplement data within the existing NGWMN. Candidate monitoring well sites within principal or major aquifers were considered for inclusion in the Network based on the site selection criteria generally described within the Framework document and "tip sheets", (SOGW, 2013): https://acwi.gov/sogw/ngwmn_framework_report_july2013.pdf.

Sites were selected that were not previously chosen within the Colorado Plateaus, Other Aquifer and Basin and Range Principal Aquifers (PA). Seventeen (17) of the 155 sites are within the Colorado Plateaus PA, 120 are within the Basin and Range PA, and 18 are within the Other Aquifer PA classification (see Figure 1). New sites added are listed in Appendix I, Wells Selected and Principal Aquifer Codes Assigned from ADWR's Existing Water Level Index Network for NGWMN. Appendix 1 lists the site name, principal (aka national) aquifer, local aquifer, well depth, monitoring frequency, period of record, and water level count per new NGWMN site. Appendix 2 lists the Monitoring Categories and Subnetworks for new sites selected for this grant period. The site name, water level network categories, subnetwork and monitoring category and the aquifer type are provided in Appendix 2.

All 155 ADWR Network wells are measured frequently, each least annually; therefore, falling into the "trend" monitoring category (see Appendix 1, Appendix 2). Eighty-six (86) well sites are measured daily by continuous automated water level devices (pressure transducers), 6 sites provide monthly measurements, and 41 sites are measured on a quarterly basis by a calibrated water level sounder. Twenty-one (21) sites were measured on an annual basis that have been rescheduled to quarterly measurements and are also made by a calibrated water level sounder.

A review of hydrographs and well logs (geologic, geophysical, and, or driller) provided the data necessary to determine both monitoring and subnetwork categories and aquifer type determinations. Specific details on ADWR's site selection and classification process are outlined in ADWR's initial project Final Report (ADWR, 2018). See also page 5 of ADWR's Final Report (ADWR, 2020).

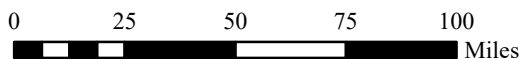


Explanation

- ADWR Grant Round 3
- ADWR Grant Round 2
- ADWR Grant Round 1
- USGS Grant Wells

**NGWMN Grant Wells
Arizona 2022**

1:2,750,000



Created on February 27, 2023
 Created by: A. Cuesta
 Data Source:
 Arizona Department of Water Resources'
 Ground Water Site Inventory Database (GWSI)
 North American Datum 1983



Figure 1. ADWR National Ground Water Monitoring Network (NGWMN) wells.

Documented changes are observed within 3 of the Colorado Plateaus aquifers wells. Six (6) sites are background and 3 show suspected changes within the Colorado Plateaus aquifers wells. Five (5) wells do not currently meet the baseline for the period of record requirement to be evaluated; these 5 sites will meet baseline requirements within the year (see Appendix 2). Documented changes are observed within 66 of the Basin and Range - Basin Fill aquifer wells. Forty-three (43) sites show suspected changes and 7 are background within the Basin and Range - Basin Fill aquifer wells. Documented changes are observed within 6 of the Other aquifer wells. Ten (10) sites show suspected changes and 2 well sites are background within the Other aquifer wells.

The task of providing lithology and well construction for new sites added, turned out to be much more time consuming than was estimated for this task. Much more time was spent locating well logs than anticipated; this exceedance in time affected the selection of new sites and for obvious reasons, the aquifer and monitoring category assignments difficult to discern. As mentioned in the Background section of the original report, ADWR relies on existing wells for statewide monitoring, adopting many USGS index wells to continue collecting water levels in areas of the state with little to no coverage. For this reason, and due to other agency programmatic responsibilities, no time was billed for a final report.

Description of Objective 3 Work: Fill Metadata Gaps

Work performed under Objective 3 to fill metadata gaps at existing NGWMN sites as required per data elements listed in the NGWMN Minimum Data Requirements tip sheet is complete and outlined in Appendix 3. The tasks completed under Objective 3 are listed per Site Name in Appendix 3. Sounder measurements for total depth at 10 well sites were made. Land surface latitude/longitude and altitude was collected with metadata at 25 well sites. Well logs for 22 existing NGWMN sites were researched. Missing well logs were located for 19 sites and well construction and lithologic data from paper files converted to electronic format. Well logs for 3 sites are unable to locate.

Not all funding allocated to Objective 3 was necessary to complete specified tasks. The time estimated to complete the GPS surveys was overestimated and therefore travel expenses as well as staff time were not billed.

Description of Data Quality and Quality Assurance Processes

All data collected was quality assured before input into ADWR agency databases and into the NGWMN Well Registry. Quality assurance and control procedures used for all data collected are described within the ADWR Field Service Section Training Manual, "Manual", (see ADWR's initial project Final Report (ADWR, 2018)). Specific details on ADWR's site selection and classification process, field data collection techniques and methodology, web services and data quality assurance (Data Management Plan) are specified in ADWR's initial project Final Report (ADWR, 2018). Additionally, ADWR data collection protocols and methods, and field

techniques for well inventory and water level measurements are documented in the Manual (ADWR, 2018). Techniques and equipment used to collect data for Objective 3 are described in the Manual in Appendix II and Appendix III of the Final Report (ADWR, 2018).

References

Advisory Committee on Water Information: Subcommittee on Ground Water (SOGW), 2013, A National Framework for Ground-Water Monitoring in the United States, 182 p. https://acwi.gov/sogw/ngwmn_framework_report_july2013.pdf.

Arizona Department of Water Resources, 2018, Final Technical Report to Establish ADWR as a Data Provider to the USGS National Ground Water Monitoring Network, Hydrology-Field Services Section 230 p.

Arizona Department of Water Resources, 2020, Final Technical Report as Existing Data Provider to the USGS National Ground Water Monitoring Network, Hydrology-Field Services Section 341 p.

APPENDIX I

**Wells Selected and Principal Aquifer Codes Assigned from
ADWR's Existing Water Level Index Network for NGWMN**

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)						
Site Name	National Aquifer	Local Aquifer	Well Depth (ft)	Monitoring Frequency	Period of Record (Non-Daily)	WL Count (Non-Daily)
A-01-05 02DDC1 [SRP MCKELLIPS]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	700	Transducer	01/01/1973 - 10/05/2022	85
A-01-05 29DDA [MESA EMERALD]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	490	Transducer	12/22/1971 - 10/05/2022	71
A-01-06 15ACD [MESA ADOBE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1204	Transducer	12/02/1982 - 10/06/2022	80
A-02-03 09CDA [ROSE LANE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	255	Transducer	01/01/1948 - 10/03/2022	70
A-03-02 24BAB2 [PHOENIX 176]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1435	Transducer	09/27/1967 - 10/25/2022	53
A-03-02 25BDA [PHOENIX 207]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1196	Transducer	09/08/1983 - 10/25/2022	50
A-03-02 34ADA [DIANA WELL]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1214	Transducer	03/24/1959 - 02/09/2023	73
A-03-04 11CBA [SCOTTSDALE AIRPORT]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1200	Transducer	07/26/1966 - 10/04/2022	74
A-03-04 25BBB [HAYDEN & SHEA]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1600	Transducer	03/06/1986 - 10/04/2022	66
A-04-03 N01BBA	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	600	Annually	07/10/2019 - 01/04/2023	5
A-05-04 33DAA [DYNAMITE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	993	Transducer	11/03/1983 - 10/06/2022	103
A-05-05 05CAA [DESERT VIEW]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1505	Transducer	09/28/1993 - 10/06/2022	73
A-10-10 03BAD1 [PAYSON 16]	Other aquifers (N9999OTHER)		525	Quarterly	11/25/1986 - 02/16/2023	126
A-10-10 03CCD [PAYSON]	Other aquifers (N9999OTHER)			Transducer	11/25/1988 - 03/09/2023	130
A-10-10 04ABB [RUMSEY PARK (TOP)]	Other aquifers (N9999OTHER)		200	Transducer	07/16/2008 - 03/09/2023	48
A-10-10 06DCC [DOLL BABY (TOP)]	Other aquifers (N9999OTHER)		38	Transducer	07/17/2008 - 03/09/2023	48
A-11-10 26BBC [NP-3]	Other aquifers (N9999OTHER)		700	Quarterly	03/26/2008 - 02/16/2023	50
A-11-10 26DAB [GC-3 (TOP)]	Other aquifers (N9999OTHER)		500	Transducer	07/30/2008 - 03/09/2023	43
A-11-10 32ACD [RED BARON]	Other aquifers (N9999OTHER)		400	Quarterly	12/17/1981 - 02/16/2023	159
A-12-01 27DBA2 [MAYER]	Other aquifers (N9999OTHER)		136	Transducer	10/03/1978 - 03/07/2023	45

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)						
Site Name	National Aquifer	Local Aquifer	Well Depth (ft)	Monitoring Frequency	Period of Record (Non-Daily)	WL Count (Non-Daily)
A-14-01 08BBB [WILLIAMS SITE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	861	Transducer	03/01/1994 - 11/15/2022	77
A-14-01 17AAD [FAIN NORTH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1103	Transducer	01/15/1979 - 11/17/2022	82
A-14-01 27ACC [FAIN SOUTH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	606	Transducer	03/18/1967 - 11/17/2022	120
A-14-23 04CBA [SNOWFLAKE]	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	400	Transducer	10/15/2003 - 03/08/2023	59
A-15-01 22ABB [INDIAN HILLS]	Other aquifers (N9999OTHER)		220	Transducer	03/01/1994 - 11/15/2022	77
A-17-23 35DDA [PETRIFIED FOREST MESA WELL]	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	980	Quarterly	01/10/1984 - 11/03/2022	80
A-18-04 15DBC	Other aquifers (N9999OTHER)		1300	Quarterly	04/06/1994 - 08/03/2022	10
A-18-07 08DDC [CHRISTENSEN REST AREA]	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	1480.46	Quarterly	01/30/1978 - 10/17/2022	9
A-19-14 03AAC1	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	800	Quarterly	08/17/1976 - 11/03/2022	55
A-20-06 02BBC [WOODY MTN. NO. 5]	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	1600	Annually	06/22/1963 - 10/20/2021	56
A-20-07 25DCB1 [LMEX-4]	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	1200	Transducer	04/05/1994 - 03/07/2023	19
A-20-07 25DCB2 [LMEX-4S]	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	100	Transducer	04/05/1994 - 03/07/2023	19
A-21-02 10BAA	Other aquifers (N9999OTHER)		540	Annually	09/13/1990 - 04/25/2022	13
A-21-06 35CBA [WOODY MTN NO. 1]	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	1600	Annually	12/07/1954 - 10/20/2021	62
A-25-09 06CCD [CITADEL]	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	1788	Quarterly	01/23/1967 - 11/02/2022	76
A-41-08 14BCA [OW 4]	Colorado Plateaus (N300COPLTS)	Coconino-De Chelly aquifer	1200	Annually	05/02/1989 - 10/18/2021	34
B-01-02 35AAA [BWL A COTTON LANE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	150	Transducer	12/13/2007 - 02/10/2023	32
B-01-03 21DBB [DICKMAN DAIRY]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	425	Transducer	01/10/1956 - 02/10/2023	106

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)						
Site Name	National Aquifer	Local Aquifer	Well Depth (ft)	Monitoring Frequency	Period of Record (Non-Daily)	WL Count (Non-Daily)
B-02-01 06ABB2 [ADAMAN ORANGE GROVE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	730	Transducer	03/25/2003 - 02/08/2023	67
B-02-01 07CAD [ADAMAN RUNWAY]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	540	Transducer	02/09/1954 - 02/08/2023	34
B-02-08 17CAA	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1650	Annually	10/29/1963 - 10/25/2021	55
B-04-02 23CAA [MCMICKEN DAM]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	440	Transducer	05/28/2014 - 02/08/2023	29
B-04-05 07CBB [DR-4]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1000	Annually	10/21/1987 - 12/06/2022	21
B-04-05 22AAA [DR-5]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1000	Annually	10/21/1987 - 12/15/2022	55
B-04-15 14CAA [RANEGRAS]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1000	Transducer	01/11/1988 - 03/14/2023	126
B-05-13 12DAB1 [CENTENNIAL PARK]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	400	Transducer	12/10/1980 - 03/14/2023	54
B-08-14 20DAB [BUTLER WELL]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	545	Annually	11/09/1948 - 10/25/2022	51
B-08-14 23DDD	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1000	Annually	08/24/1965 - 11/04/2022	51
B-14-01 10ADB1 PZ1 [FAT CHANCE PZ1]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	945	Transducer	01/08/1999 - 11/17/2022	64
B-14-01 10ADB1 PZ2 [FAT CHANCE PZ2]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	700	Transducer	06/22/1988 - 11/17/2022	35
B-15-01 08DAA1 PZ1 [GRANITE DELLS PZ1]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	832	Transducer	06/19/2001 - 11/15/2022	70
B-15-01 08DAA1 PZ2 [GRANITE DELLS PZ2]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	504	Transducer	03/14/2013 - 11/15/2022	30
B-15-01 26CBC1 [VIEWPOINT SITE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	610	Transducer	07/12/1994 - 11/15/2022	83
B-15-02 22AAB [GROUND HOG DAY WELL]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1240	Transducer	10/31/2001 - 11/15/2022	69
B-16-01 23ACA [UNITED VERDE & PACIFIC]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	654	Transducer	07/11/2001 - 11/15/2022	72

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)						
Site Name	National Aquifer	Local Aquifer	Well Depth (ft)	Monitoring Frequency	Period of Record (Non-Daily)	WL Count (Non-Daily)
B-16-02 12CBD [OLD HOME MANOR]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	644	Transducer	04/18/1941 - 11/15/2022	103
B-16-02 21BAA2 [GEILER]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	400	Transducer	06/23/1981 - 11/15/2022	89
B-16-02 28DDC [CEMETERY]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	605	Transducer	11/13/1958 - 11/15/2022	87
B-17-02 06BBB [WINEGLASS RANCH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	342	Transducer	10/09/1952 - 11/16/2022	95
B-17-02 11ABA [MW-4D]	Colorado Plateaus (N300COPLTS)		340	Transducer	08/21/2018 - 11/16/2022	19
B-17-02 12CBD [MW-4E]	Colorado Plateaus (N300COPLTS)		460	Transducer	03/22/2018 - 11/16/2022	20
B-17-02 15BAA [SL-1]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	285	Transducer	08/14/2019 - 11/16/2022	13
B-17-02 26CCD3 [DEL RIO SPRINGS]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	206	Transducer	08/22/2013 - 11/15/2022	31
B-17-02 N34DDD1 [ECHOLS]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	722	Transducer	10/15/1943 - 11/15/2022	146
B-17-02 S04CDA2 [PAULDEN NORTH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	220	Transducer	02/26/2014 - 11/15/2022	28
B-17-02 S04DCB PZ1 [PAULDEN SOUTH PZ1]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	600	Transducer	02/06/1992 - 11/15/2022	31
B-17-02 S04DCB PZ2 [PAULDEN SOUTH PZ2]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	600	Transducer	02/06/1992 - 11/15/2022	30
B-17-02 S04DCB PZ3 [PAULDEN SOUTH PZ3]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	600	Transducer	02/06/1992 - 11/15/2022	30
B-17-02E02DCA	Colorado Plateaus (N300COPLTS)		500	Quarterly	06/12/2001 - 11/17/2022	52
B-18-01 19ADC [MW-4B2]	Colorado Plateaus (N300COPLTS)		510	Transducer	03/23/2018 - 11/16/2022	20
B-18-01 28BCD [MW-4B1]	Colorado Plateaus (N300COPLTS)		497	Transducer	03/23/2018 - 11/16/2022	20
B-18-01 31CCD [MW-4B3]	Colorado Plateaus (N300COPLTS)		480	Transducer	03/23/2018 - 11/16/2022	22

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)						
Site Name	National Aquifer	Local Aquifer	Well Depth (ft)	Monitoring Frequency	Period of Record (Non-Daily)	WL Count (Non-Daily)
B-18-03 26ACC [MW-4G]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1495	Transducer	08/21/2018 - 11/16/2022	18
B-18-03 26BDD [MW-4F1]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	609	Transducer	09/28/1972 - 11/16/2022	18
B-18-04 01ABD [BMW-2]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1635	Transducer	08/21/2018 - 11/16/2022	20
B-18-04 01ACA2 [BIG CHINO WATER RANCH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1000	Transducer	12/28/2007 - 11/16/2022	48
B-18-04 11ACC [WALNUT CREEK]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	489	Transducer	10/26/2005 - 11/16/2022	52
B-18-04 25AAA2 [ANTELOPE WASH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	735	Transducer	01/18/2007 - 11/16/2022	52
B-18-18 01DCD	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	740	Quarterly	05/31/1990 - 12/12/2022	41
B-20-04 33CBD2 [WMW-2]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	420	Quarterly	02/17/2006 - 11/17/2022	15
B-20-18 22AAC [SACRAMENTO]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	779	Transducer	05/04/1964 - 03/09/2023	152
B-21-02 14BCC [WELL NO. 74-3 ASH FORK]	Colorado Plateaus (N300COPLTS)		1700	Annually	05/01/1984 - 04/25/2022	28
B-21-10 17CCD1 [WELL NO 1]	Other aquifers (N9999OTHER)		500	Annually	07/08/1980 - 10/22/2021	43
B-21-18 05BDB [GOLDEN VALLEY]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1350	Transducer	11/07/1995 - 03/09/2023	44
B-22-08 15CCB	Other aquifers (N9999OTHER)		1104	Quarterly	07/15/1980 - 12/13/2022	47
B-22-16 03CBB	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	970	Quarterly	03/18/1980 - 12/13/2022	49
B-22-16 28BDA [LONG MOUNTAIN #2]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1000	Transducer	12/11/1963 - 03/08/2023	104
B-22-16E19BAA [LONG MOUNTAIN NO 4]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1000	Annually	03/04/1980 - 10/21/2022	20
B-23-15 25BBC	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1015	Quarterly	11/09/1995 - 12/13/2022	22
B-23-15 30CBB [JK-4]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1000	Inactive	06/15/1973 - 10/18/2022	39

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)						
Site Name	National Aquifer	Local Aquifer	Well Depth (ft)	Monitoring Frequency	Period of Record (Non-Daily)	WL Count (Non-Daily)
B-24-12 17CBC	Other aquifers (N9999OTHER)		440	Quarterly	07/23/1953 - 12/13/2022	76
B-24-14 28CAD [TRUXTON NORTH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	705	Quarterly	10/12/1943 - 12/13/2022	98
B-24-14 33ADA [TRUXTON SOUTH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	623	Transducer	04/29/1965 - 03/08/2023	55
B-24-15 01BAC	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	900	Annually	01/11/2006 - 10/19/2022	19
B-24-15 33BBB	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1100	Quarterly	04/29/1980 - 12/13/2022	10
B-24-16 01DDD1 [VAUGHN WELL]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	700	Annually	04/28/1965 - 10/19/2022	48
B-24-16 16AAA [STURGILL WELL]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	550	Quarterly	12/21/2007 - 12/13/2022	17
B-25-15 29CCC	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers		Quarterly	01/14/1986 - 12/13/2022	22
B-26-17 33CBB [JK-8]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	760	Quarterly	01/27/2015 - 12/13/2022	16
B-26-17 35AAA	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	700	Quarterly	02/28/1958 - 12/13/2022	39
B-26-20 06ACA [DETRITAL #2]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	537	Transducer	07/04/1984 - 03/08/2023	66
B-27-16 33BAA	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	500	Quarterly	04/28/1965 - 10/19/2022	30
B-27-20 09CBD	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1365	Annually	11/14/2006 - 10/21/2021	13
B-28-18 25BAA	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1100	Quarterly	08/31/2006 - 12/13/2022	17
B-29-21 28DDD	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	400	Quarterly	11/08/1995 - 12/14/2022	24
B-30-16 07ADC	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	166	Quarterly	05/12/1975 - 12/13/2022	30
B-30-20 06CAD UNSURV [LAKE MEAD NATIONAL REC AREA]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	185	Quarterly	06/20/1984 - 12/14/2022	49
B-37-15 18DBC	Other aquifers (N9999OTHER)		153	Quarterly	06/16/1951 - 12/14/2022	39

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)						
Site Name	National Aquifer	Local Aquifer	Well Depth (ft)	Monitoring Frequency	Period of Record (Non-Daily)	WL Count (Non-Daily)
B-39-01 18DDB [CEDAR KNOL]	Other aquifers (N9999OTHER)		690	Quarterly	08/10/1976 - 12/15/2022	28
B-39-02 20CDD	Other aquifers (N9999OTHER)		700	Quarterly	04/10/1990 - 12/15/2022	34
B-40-16 34BDC	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	320	Quarterly	10/24/2017 - 12/14/2022	12
B-41-15 08ADA [CORRAL WELL]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	600	Quarterly	11/06/1993 - 12/14/2022	33
B-41-15 28ABD [DEAD DOG WELL]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	360	Quarterly	04/13/1993 - 12/14/2022	36
C-01-03 08CBD	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	520	Annually	10/07/1982 - 12/06/2022	45
C-01-03 08CDD [BUCKEYE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	55	Transducer	09/23/2014 - 02/10/2023	27
C-01-04 27BDC [ROBBINS BUTTE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	321	Transducer	02/01/1954 - 03/14/2023	47
C-01-08 06CCC2 [VANDERBILT FARMS]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	800	Transducer	12/14/1971 - 03/14/2023	54
C-03-11 31DBB [TURTLEBACK]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	508	Transducer	01/01/1973 - 03/14/2023	97
C-08-21 21BCA	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	54.64	Annually	05/06/1943 - 10/25/2022	318
D-01-05 15CDD2 [SRP WARNER]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	660	Transducer	09/19/1953 - 10/05/2022	78
D-01-08 30DAA PZ1	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1084	Monthly	09/27/1971 - 02/23/2023	79
D-01-08 30DAA PZ2 [HW92]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	696	Monthly	11/01/1971 - 02/23/2023	78
D-02-07 22BBC [QUEEN CREEK]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	606	Transducer	04/17/2002 - 10/05/2022	71
D-06-03 27CCC [RED RIVER]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1254	Transducer	01/04/1977 - 01/30/2023	52
D-06-07 36DCB [ELEVEN MILE CORNER]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	550	Transducer	11/19/1984 - 01/30/2023	99
D-07-06 34BAD [ARIZONA CITY]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	740	Transducer	11/07/1984 - 02/13/2023	122

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)						
Site Name	National Aquifer	Local Aquifer	Well Depth (ft)	Monitoring Frequency	Period of Record (Non-Daily)	WL Count (Non-Daily)
D-09-08 29BCC [FRIENDLY CORNERS]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1100	Transducer	11/15/1984 - 01/30/2023	144
D-10-14 12BBC [CDO WEST PROPERTY WELL]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1200	Annually	01/26/2016 - 06/01/2022	5
D-13-14 19BBB1 [CF-011A]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	238	Monthly	05/01/1957 - 02/23/2023	250
D-13-14 30BBD [A-018A]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	420	Monthly	05/04/1955 - 02/23/2023	138
D-13-14 35BAD	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	215	Monthly	02/20/1947 - 02/23/2023	94
D-13-28 13BCD [CHARLIE WADE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	177	Transducer	02/12/1987 - 02/07/2023	108
D-14-15 15CAA [SD-004A]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	456	Monthly	10/01/1968 - 02/23/2023	37
D-15-15 25DBC2 [ESMOND 2]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	883	Annually	06/20/1946 - 02/02/2023	45
D-16-10 34BAA [NO 3]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	875	Quarterly	05/04/1964 - 02/17/2023	59
D-16-16 14CAC [PANTANO WASH SOUTH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	105	Transducer	02/22/2007 - 02/28/2023	47
D-16-16 15ABD [PANTANO WASH NORTH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	350	Transducer	02/22/2007 - 02/28/2023	53
D-16-25 01BBB [KANSAS SETTLEMENT]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	161	Transducer	01/15/1990 - 02/07/2023	54
D-17-14 01BAA [SC-032A]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1545	Quarterly	02/19/1973 - 02/17/2023	51
D-17-14 17BDD [ROSEMONT COPPER WEST]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1300	Transducer	06/18/2008 - 02/28/2023	50
D-17-14 21ADD [ROSEMONT COPPER EAST]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	1211	Quarterly	06/17/2008 - 02/17/2023	47
D-17-15 02DCD	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	849	Annually	10/03/1962 - 02/03/2023	60
D-18-16 22CAD [TEST WELL 1591]	Other aquifers (N9999OTHER)		300	Quarterly	03/31/1982 - 02/16/2023	21
D-18-17 34BDA [ENZENBERG]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	107	Quarterly	03/24/1982 - 02/16/2023	18

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)						
Site Name	National Aquifer	Local Aquifer	Well Depth (ft)	Monitoring Frequency	Period of Record (Non-Daily)	WL Count (Non-Daily)
D-19-13 21BAA [CANOA RANCH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	189	Transducer	12/28/1951 - 02/28/2023	74
D-19-13 29BCC [ELEPHANT HEAD BRIDGE]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	500	Transducer	11/06/1951 - 02/28/2023	149
D-19-16 04DBA [TEST WELL 1541]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	700	Quarterly	03/29/1982 - 02/16/2023	21
D-20-13 07ACD	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	123	Quarterly	01/11/1995 - 02/16/2023	147
D-21-13 31AAC1UNSURV [TUMACACORI SOUTH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	120	Transducer	01/15/2009 - 03/01/2023	47
D-21-13 31AAC2UNSURV [TUMACACORI NORTH]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	65	Transducer	01/15/2009 - 03/01/2023	47
D-21-26 32DAD [WHITEWATER DRAW]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	400	Transducer	05/01/1946 - 02/07/2023	95
D-22-08 34ABA	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	430	Quarterly	01/10/1964 - 02/17/2023	69
D-23-13 01BBD UNSURV [RIO RICO]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	167	Transducer	11/21/1997 - 03/01/2023	120
D-23-13 36BDD [MEADOW HILLS]	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	310	Transducer	12/09/1987 - 03/01/2023	90
D-24-17 14BBA	Basin and Range Basin Fill (N100BSNRGB)	Basin and Range basin-fill aquifers	27	Quarterly	10/05/1948 - 11/21/2022	75

APPENDIX II

Monitoring Categories and Subnetworks - ADWR Wells Selected for NGWMN

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)			
Site Name	Water Level Network		Aquifer Type
	Subnetwork Category	Monitoring	
A-01-05 02DDC1 [SRP MCKELLIPS]	Known Changes	Trend	Unconfined
A-01-05 29DDA [MESA EMERALD]	Known Changes	Trend	Unconfined
A-01-06 15ACD [MESA ADOBE]	Known Changes	Trend	Unconfined
A-02-03 09CDA [ROSE LANE]	Known Changes	Trend	Unconfined
A-03-02 24BAB2 [PHOENIX 176]	Known Changes	Trend	Unconfined
A-03-02 25BDA [PHOENIX 207]	Known Changes	Trend	Unconfined
A-03-02 34ADA [DIANA WELL]	Known Changes	Trend	Unconfined
A-03-04 11CBA [SCOTTSDALE AIRPORT]	Known Changes	Trend	Unconfined
A-03-04 25BBB [HAYDEN& SHEA]	Known Changes	Trend	Unconfined
A-04-03 N01BBA	Undetermined - Baseline not achieved	Trend	Unconfined
A-05-04 33DAA [DYNAMITE]	Known Changes	Trend	Unconfined
A-05-05 05CAA [DESERT VIEW]	Known Changes	Trend	Unconfined
A-10-10 03BAD1 [PAYSON 16]	Suspected Changes	Trend	Unconfined
A-10-10 03CCD [PAYSON]	Known Changes	Trend	Unconfined
A-10-10 04ABB [RUMSEY PARK (TOP)]	Suspected Changes	Trend	Unconfined
A-10-10 06DCC [DOLL BABY (TOP)]	Suspected Changes	Trend	Unconfined
A-11-10 26BBC [NP-3]	Known Changes	Trend	Unconfined
A-11-10 26DAB [GC-3 (TOP)]	Known Changes	Trend	Unconfined
A-11-10 32ACD [RED BARON]	Known Changes	Trend	Unconfined
A-12-01 27DBA2 [MAYER]	Known Changes	Trend	Unconfined
A-14-01 08BBB [WILLIAMS SITE]	Known Changes	Trend	Unconfined
A-14-01 17AAD [FAIN NORTH]	Known Changes	Trend	Unconfined
A-14-01 27ACC [FAIN SOUTH]	Known Changes	Trend	Unconfined
A-14-23 04CBA [SNOWFLAKE]	Background	Trend	Unconfined
A-15-01 22ABB [INDIAN HILLS]	Known Changes	Trend	Unconfined
A-17-23 35DDA [PETRIFIED FOREST MESA WELL]	Background	Trend	Unconfined

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)			
Site Name	Water Level Network		Aquifer Type
	Subnetwork Category	Monitoring	
A-18-04 15DBC	Suspected Changes	Trend	Unconfined
A-18-07 08DDC [CHRISTENSEN REST AREA]	Suspected Changes	Trend	Unconfined
A-19-14 03AAC1	Background	Trend	Unconfined
A-20-06 02BBC [WOODY MTN. NO. 5]	Known Changes	Trend	Unconfined
A-20-07 25DCB1 [LMEX-4]	Background	Trend	Unconfined
A-20-07 25DCB2 [LMEX-4S]	Suspected Changes	Trend	Unconfined
A-21-02 10BAA	Background	Trend	Unconfined
A-21-06 35CBA [WOODY MTN NO. 1]	Known Changes	Trend	Unconfined
A-25-09 06CCD [CITADEL]	Background	Trend	Unconfined
A-41-08 14BCA [OW 4]	Suspected Changes	Trend	Unconfined
B-01-02 35AAA [BWLA COTTON LANE]	Known Changes	Trend	Unconfined
B-01-03 21DBB [DICKMAN DAIRY]	Known Changes	Trend	Unconfined
B-02-01 06ABB2 [ADAMAN ORANGE GROVE]	Known Changes	Trend	Unconfined
B-02-01 07CAD [ADAMAN RUNWAY]	Known Changes	Trend	Unconfined
B-02-08 17CAA	Known Changes	Trend	Unconfined
B-04-02 23CAA [MCMICKEN DAM]	Known Changes	Trend	Unconfined
B-04-05 07CBB [DR-4]	Suspected Changes	Trend	Unconfined
B-04-05 22AAA [DR-5]	Suspected Changes	Trend	Unconfined
B-04-15 14CAA [RANEGRAS]	Known Changes	Trend	Unconfined
B-05-13 12DAB1 [CENTENNIAL PARK]	Known Changes	Trend	Unconfined
B-08-14 20DAB [BUTLER WELL]	Suspected Changes	Trend	Unconfined
B-08-14 23DDD	Suspected Changes	Trend	Unconfined
B-14-01 10ADB1 PZ1 [FAT CHANCE PZ1]	Known Changes	Trend	Unconfined
B-14-01 10ADB1 PZ2 [FAT CHANCE PZ2]	Known Changes	Trend	Unconfined
B-15-01 08DAA1 PZ1 [GRANITE DELLS PZ1]	Suspected Changes	Trend	Unconfined
B-15-01 08DAA1 PZ2 [GRANITE DELLS PZ2]	Suspected Changes	Trend	Unconfined

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)			
Site Name	Water Level Network		Aquifer Type
	Subnetwork Category	Monitoring	
B-15-01 26CBC1 [VIEWPOINT SITE]	Known Changes	Trend	Unconfined
B-15-02 22AAB [GROUND HOG DAY WELL]	Suspected Changes	Trend	Unconfined
B-16-01 23ACA [UNITED VERDE& PACIFIC]	Suspected Changes	Trend	Unconfined
B-16-02 12CBD [OLD HOME MANOR]	Known Changes	Trend	Unconfined
B-16-02 21BAA2 [GEILER]	Known Changes	Trend	Unconfined
B-16-02 28DDC [CEMETERY]	Known Changes	Trend	Unconfined
B-17-02 06BBB [WINEGLASS RANCH]	Known Changes	Trend	Unconfined
B-17-02 11ABA [MW-4D]	Undetermined - Baseline not achieved	Trend	Unconfined
B-17-02 12CBD [MW-4E]	Undetermined - Baseline not achieved	Trend	Unconfined
B-17-02 15BAA [SL-1]	Undetermined - Baseline not achieved	Trend	Unconfined
B-17-02 26CCD3 [DEL RIO SPRINGS]	Suspected Changes	Trend	Unconfined
B-17-02 N34DDD1 [ECHOLS]	Known Changes	Trend	Confined
B-17-02 S04CDA2 [PAULDEN NORTH]	Suspected Changes	Trend	Unconfined
B-17-02 S04DCB PZ1 [PAULDEN SOUTH PZ1]	Suspected Changes	Trend	Unconfined
B-17-02 S04DCB PZ2 [PAULDEN SOUTH PZ2]	Suspected Changes	Trend	Unconfined
B-17-02 S04DCB PZ3 [PAULDEN SOUTH PZ3]	Suspected Changes	Trend	Unconfined
B-17-02E02DCA	Known Changes	Trend	Unconfined
B-18-01 19ADC [MW-4B2]	Undetermined - Baseline not achieved	Trend	Unconfined
B-18-01 28BCD [MW-4B1]	Undetermined - Baseline not achieved	Trend	Unconfined
B-18-01 31CCD [MW-4B3]	Undetermined - Baseline not achieved	Trend	Unconfined
B-18-03 26ACC [MW-4G]	Undetermined - Baseline not achieved	Trend	Unconfined
B-18-03 26BDD [MW-4F1]	Suspected Changes	Trend	Unconfined
B-18-04 01ABD [BMW-2]	Suspected Changes	Trend	Unconfined
B-18-04 01ACA2 [BIG CHINO WATER RANCH]	Suspected Changes	Trend	Unconfined
B-18-04 11ACC [WALNUT CREEK]	Background	Trend	Unconfined
B-18-04 25AAA2 [ANTELOPE WASH]	Background	Trend	Unconfined

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)			
Site Name	Water Level Network		Aquifer Type
	Subnetwork Category	Monitoring	
B-18-18 01DCD	Suspected Changes	Trend	Unconfined
B-20-04 33CBD2 [WMW-2]	Suspected Changes	Trend	Unconfined
B-20-18 22AAC [SACRAMENTO]	Suspected Changes	Trend	Unconfined
B-21-02 14BCC [WELL NO. 74-3 ASH FORK]	Background	Trend	Unconfined
B-21-10 17CCD1 [WELL NO 1]	Suspected Changes	Trend	Unconfined
B-21-18 05DBD [GOLDEN VALLEY]	Suspected Changes	Trend	Unconfined
B-22-08 15CCB	Background	Trend	Confined
B-22-16 03CBB	Known Changes	Trend	Unconfined
B-22-16 28BDA [LONG MOUNTAIN #2]	Known Changes	Trend	Unconfined
B-22-16E19BAA [LONG MOUNTAIN NO 4]	Known Changes	Trend	Unconfined
B-23-15 25BBC	Suspected Changes	Trend	Unconfined
B-23-15 30CBB [JK-4]	Known Changes	Trend	Unconfined
B-24-12 17CBC	Suspected Changes	Trend	Unconfined
B-24-14 28CAD [TRUXTON NORTH]	Suspected Changes	Trend	Unconfined
B-24-14 33ADA [TRUXTON SOUTH]	Suspected Changes	Trend	Unconfined
B-24-15 01BAC	Suspected Changes	Trend	Unconfined
B-24-15 33BBB	Known Changes	Trend	Unconfined
B-24-16 01DDD1 [VAUGHN WELL]	Suspected Changes	Trend	Unconfined
B-24-16 16AAA [STURGILL WELL]	Known Changes	Trend	Unconfined
B-25-15 29CCC	Suspected Changes	Trend	Unconfined
B-26-17 33CBB [JK-8]	Suspected Changes	Trend	Unconfined
B-26-17 35AAA	Suspected Changes	Trend	Unconfined
B-26-20 06ACA [DETRITAL #2]	Background	Trend	Unconfined
B-27-16 33BAA	Suspected Changes	Trend	Unconfined
B-27-20 09CBD	Suspected Changes	Trend	Confined
B-28-18 25BAA	Suspected Changes	Trend	Unconfined

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)			
Site Name	Water Level Network		Aquifer Type
	Subnetwork Category	Monitoring	
B-29-21 28DDD	Background	Trend	Confined
B-30-16 07ADC	Background	Trend	Unconfined
B-30-20 06CAD UNSURV [LAKE MEAD NATIONAL REC AREA]	Background	Trend	Unconfined
B-37-15 18DBC	Suspected Changes	Trend	Unconfined
B-39-01 18DDB [CEDAR KNOL]	Suspected Changes	Trend	Unconfined
B-39-02 20CDD	Suspected Changes	Trend	Unconfined
B-40-16 34BDC	Suspected Changes	Trend	Unconfined
B-41-15 08ADA [CORRAL WELL]	Background	Trend	Unconfined
B-41-15 28ABD [DEAD DOG WELL]	Suspected Changes	Trend	Unconfined
C-01-03 08CBD	Known Changes	Trend	Unconfined
C-01-03 08CDD [BUCKEYE]	Known Changes	Trend	Unconfined
C-01-04 27BDC [ROBBINS BUTTE]	Suspected Changes	Trend	Unconfined
C-01-08 06CCC2 [VANDERBILT FARMS]	Known Changes	Trend	Unconfined
C-03-11 31DBB [TURTLEBACK]	Suspected Changes	Trend	Unconfined
C-08-21 21BCA	Known Changes	Trend	Unconfined
D-01-05 15CDD2 [SRP WARNER]	Known Changes	Trend	Unconfined
D-01-08 30DAA PZ1	Suspected Changes	Trend	Unconfined
D-01-08 30DAA PZ2 [HW92]	Suspected Changes	Trend	Unconfined
D-02-07 22BBC [QUEEN CREEK]	Known Changes	Trend	Unconfined
D-06-03 27CCC [RED RIVER]	Known Changes	Trend	Unconfined
D-06-07 36DCB [ELEVEN MILE CORNER]	Known Changes	Trend	Unconfined
D-07-06 34BAD [ARIZONA CITY]	Known Changes	Trend	Unconfined
D-09-08 29BCC [FRIENDLY CORNERS]	Known Changes	Trend	Unconfined
D-10-14 12BBC [CDO WEST PROPERTY WELL]	Known Changes	Trend	Unconfined
D-13-14 19BBB1 [CF-011A]	Known Changes	Trend	Unconfined
D-13-14 30BBD [A-018A]	Known Changes	Trend	Unconfined

National Ground-Water Monitoring Network - ADWR Water Level Sites (March 2023)			
Site Name	Water Level Network		Aquifer Type
	Subnetwork Category	Monitoring	
D-13-14 35BAD	Known Changes	Trend	Unconfined
D-13-28 13BCD [CHARLIE WADE]	Known Changes	Trend	Unconfined
D-14-15 15CAA [SD-004A]	Known Changes	Trend	Unconfined
D-15-15 25DBC2 [ESMOND 2]	Known Changes	Trend	Unconfined
D-16-10 34BAA [NO 3]	Suspected Changes	Trend	Unconfined
D-16-16 14CAC [PANTANO WASH SOUTH]	Suspected Changes	Trend	Unconfined
D-16-16 15ABD [PANTANO WASH NORTH]	Suspected Changes	Trend	Unconfined
D-16-25 01BBB [KANSAS SETTLEMENT]	Known Changes	Trend	Unconfined
D-17-14 01BAA [SC-032A]	Known Changes	Trend	Unconfined
D-17-14 17BDD [ROSEMONT COPPER WEST]	Known Changes	Trend	Unconfined
D-17-14 21ADD [ROSEMONT COPPER EAST]	Known Changes	Trend	Unconfined
D-17-15 02DCD	Known Changes	Trend	Unconfined
D-18-16 22CAD [TEST WELL 1591]	Suspected Changes	Trend	Unconfined
D-18-17 34BDA [ENZENBERG]	Suspected Changes	Trend	Unconfined
D-19-13 21BAA [CANOA RANCH]	Known Changes	Trend	Unconfined
D-19-13 29BCC [ELEPHANT HEAD BRIDGE]	Known Changes	Trend	Unconfined
D-19-16 04DBA [TEST WELL 1541]	Suspected Changes	Trend	Unconfined
D-20-13 07ACD	Known Changes	Trend	Unconfined
D-21-13 31AAC1UNSURV [TUMACACORI SOUTH]	Known Changes	Trend	Unconfined
D-21-13 31AAC2UNSURV [TUMACACORI NORTH]	Known Changes	Trend	Unconfined
D-21-26 32DAD [WHITEWATER DRAW]	Known Changes	Trend	Unconfined
D-22-08 34ABA	Suspected Changes	Trend	Unconfined
D-23-13 01BBD UNSURV [RIO RICO]	Known Changes	Trend	Unconfined
D-23-13 36BDD [MEADOW HILLS]	Known Changes	Trend	Unconfined
D-24-17 14BBA	Suspected Changes	Trend	Unconfined

APPENDIX III

Status of Objective Three (3) Sites

National Ground-Water Monitoring Network - ADWR Objective 3 Sites (March 2023)		
Site Name	Objective 3 Task	Objective 3 Task Status
A-01-07 36DAA2 PZ1 [SG-2 PZ1]	Survey-grade GPS, Enter Well Log Info	Complete
A-01-07 36DAA2 PZ2 [SG-2 PZ2]	Survey-grade GPS, Enter Well Log Info	Complete
A-01-07 36DAA2 PZ3 [SG-2 PZ3]	Survey-grade GPS, Enter Well Log Info	Complete
A-11-11 26ADD PZ1 [R-5]	Survey-grade GPS, Enter Well Log Info	Complete
A-11-11 26ADD PZ2 [R-5B]	Survey-grade GPS, Enter Well Log Info	Complete
A-17-04 01ACA	Survey-grade GPS, Enter Well Log Info	Complete
A-17-20 26DBC [HOLBROOK]	Total Depth Measurement, Enter Well Log Info	Complete
A-20-14 07CAD UNSURV [RED GAP RANCH]	Total Depth Measurement, Enter Well Log Info	Complete
A-23-08 21ABA [SUNSET CRATER]	Total Depth Measurement, Survey-grade GPS	Complete
A-42-08 35ABB [OW-10]	Total Depth Measurement, Survey-grade GPS, Enter Well Log Info	Well Log Info Unavailable
B-28-17 31CCC2 [PIERCE FERRY]	Enter Well Log Info	Complete
B-30-17 14DCC [MEADVIEW]	Enter Well Log Info	Complete
C-10-25 26CDB [LCRP 17REP]	Total Depth Measurement, Survey-grade GPS, Enter Well Log Info	Complete
C-11-24 23BCB [LCRP #10]	Survey-grade GPS	Complete
C-12-22 06DAA2 [21 1/2S-4E]	Total Depth Measurement, Survey-grade GPS	Complete
D-01-08 36CCC [B2A]	Survey-grade GPS, Enter Well Log Info	Complete
D-02-08 02CBB PZ1 [SG-10 PZ1]	Survey-grade GPS, Enter Well Log Info	Complete
D-02-08 02CBB PZ2 [SG-10 PZ2]	Survey-grade GPS, Enter Well Log Info	Complete
D-02-08 02CBB PZ3 [SG-10 PZ3]	Survey-grade GPS, Enter Well Log Info	Complete
D-04-09 15BCA2 PZ1 [SG-5 PZ1]	Survey-grade GPS, Enter Well Log Info	Complete
D-04-10 18DCD PZ1 [SG 23 PZ1]	Survey-grade GPS, Enter Well Log Info	Complete
D-04-10 18DCD PZ2 [SG 23 PZ2]	Survey-grade GPS, Enter Well Log Info	Complete
D-05-10 31BBA PZ1 [SG-9 PZ1]	Survey-grade GPS, Enter Well Log Info	Complete

National Ground-Water Monitoring Network - ADWR Objective 3 Sites (March 2023)		
Site Name	Objective 3 Task	Objective 3 Task Status
D-05-10 31BBA PZ2 [SG-9 PZ2]	Survey-grade GPS, Enter Well Log Info	Complete
D-05-10 31BBA PZ3 [SG-9 PZ3]	Survey-grade GPS, Enter Well Log Info	Complete
D-08-26 33CDC1 [ARTESIA SCHOOL]	Total Depth Measurement, Enter Well Log Info	Complete
D-16-27 30BAC [ROLL RANCH]	Total Depth Measurement, Enter Well Log Info	Complete
D-16-29 26CCC2 [FARAWAY RANCH WELL CHIRICAHUA NM]	Total Depth Measurement, Enter Well Log Info	Well Log Info Unavailable
D-18-19 25DCB1 [KARTCHNER WELL]	Total Depth Measurement, Enter Well Log Info	Complete
D-18-19 36ADC [KARTCHNER CAVERNS #3]	Enter Well Log Info	Complete
D-18-20 30CAB [KARTCHNER CAVERNS #4]	Enter Well Log Info	Complete
D-19-17 03ADB [TEST WELL GAC 1]	Survey-grade GPS	Complete
D-19-17 10BCD [Well EP-1]	Survey-grade GPS, Enter Well Log Info	Complete
D-19-17 19BAC [EMPIRE E1]	Survey-grade GPS	Complete
D-24-15 08ADC UNSURV [Kino Springs TW]	Survey-grade GPS, Enter Well Log Info	Complete