



Water Resources Division

2016 Spring Valley Hydrologic Monitoring, Management, and Mitigation Plan Status and Data Report

March 2017

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Submitted to the
Nevada State Engineer and the
Spring Valley Stipulation
Executive Committee

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ACRONYMS

| | |
|------|--|
| BLM | Bureau of Land Management |
| BWG | Biological Work Group |
| CPB | Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter-Day Saints |
| CY | Calendar Year |
| DOI | U.S. Department of the Interior |
| EC | Executive Committee |
| HA | hydrographic area |
| NDWR | Nevada Division of Water Resources |
| NSE | Nevada State Engineer |
| NWIS | National Water Information System |
| SNWA | Southern Nevada Water Authority |
| SV3M | Spring Valley Monitoring, Management, and Mitigation |
| TRP | Technical Review Panel |
| USGS | U.S. Geological Survey |
| UTM | Universal Transverse Mercator |
| WY | water year |

ABBREVIATIONS

| | |
|-----------------|-----------------------|
| amsl | above mean sea level |
| bgs | below ground surface |
| cfs | cubic feet per second |
| ft | foot |
| gpm | gallons per minute |
| in. | inch |
| m | meter |
| mi | mile |
| mi ² | square mile |



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1.0 INTRODUCTION

This report was prepared by the Southern Nevada Water Authority (SNWA) in satisfaction of monitoring and reporting requirements set forth in the *Hydrologic Monitoring and Mitigation Plan for Spring Valley (Hydrographic Area 184)* (SV3M Plan) (SNWA, 2011a). The location of the Spring Valley hydrographic area (HA) 184 is presented in [Figure 1-1](#). This is the tenth annual status and data report in a series of reports associated with the Spring Valley hydrologic monitoring, management and mitigation program. The reports document historic hydrologic conditions and plan status since 2007 (SNWA, 2008, 2009b, 2010, 2011b, 2012, 2013, 2014a, and 2015a, 2016).

This report provides the Nevada State Engineer (NSE) hydrologic data collected in 2016 and the current status of each element of the SV3M plan. The report also satisfies the hydrologic data reporting requirements of SNWA and the U.S. Department of the Interior (DOI) Stipulation for Withdrawal of Protests (Stipulation). The SV3M Plan contains all the hydrologic monitoring elements of the Stipulation as well as monitoring required by the NSE that relate to senior non-federal water-rights.

1.1 Background

On September 8, 2006, prior to the NSE administrative hearing for applications 54003 through 54020, the Stipulation was established between SNWA and DOI on behalf of the Bureau of Indian Affairs, the Bureau of Land Management (BLM), the National Park Service, and the U.S. Fish and Wildlife Service (USFWS) (Stipulation, 2006). Exhibits A and B of the Stipulation require the development of biologic and hydrologic monitoring plans. As part of the Stipulation, an Executive Committee (EC) was established to oversee its implementation. The Technical Review Panel (TRP), composed of technical representatives of parties to the Stipulation, was established to develop and oversee implementation of the Stipulation related portions of the hydrologic monitoring, management and mitigation plan. A Biological Working Group (BWG) was also established to oversee the development and implementation of the biological monitoring plan.

On April 16, 2007, SNWA was granted groundwater rights in Spring Valley for municipal and industrial uses under permits 54003 through 54015, inclusive, as well as 54019 and 54020. Ruling 5726 required the development of biologic and hydrologic monitoring plans. The hydrologic SV3M plan associated with this ruling was approved by the NSE on February 9, 2009.

Since the issuance of Ruling 5726, an opinion by the Nevada Supreme Court (NSC) concluded that the NSE must re-notice SNWA's original groundwater applications and reopen the protest period (Great Basin Water Network, et. al. v. NSE, et. al., June 17, 2010) (NSC, 2010). A second administrative hearing regarding the water-right applications was held by the NSE during September through November, 2011. On March 22, 2012, the NSE issued Ruling 6164 granting SNWA Spring

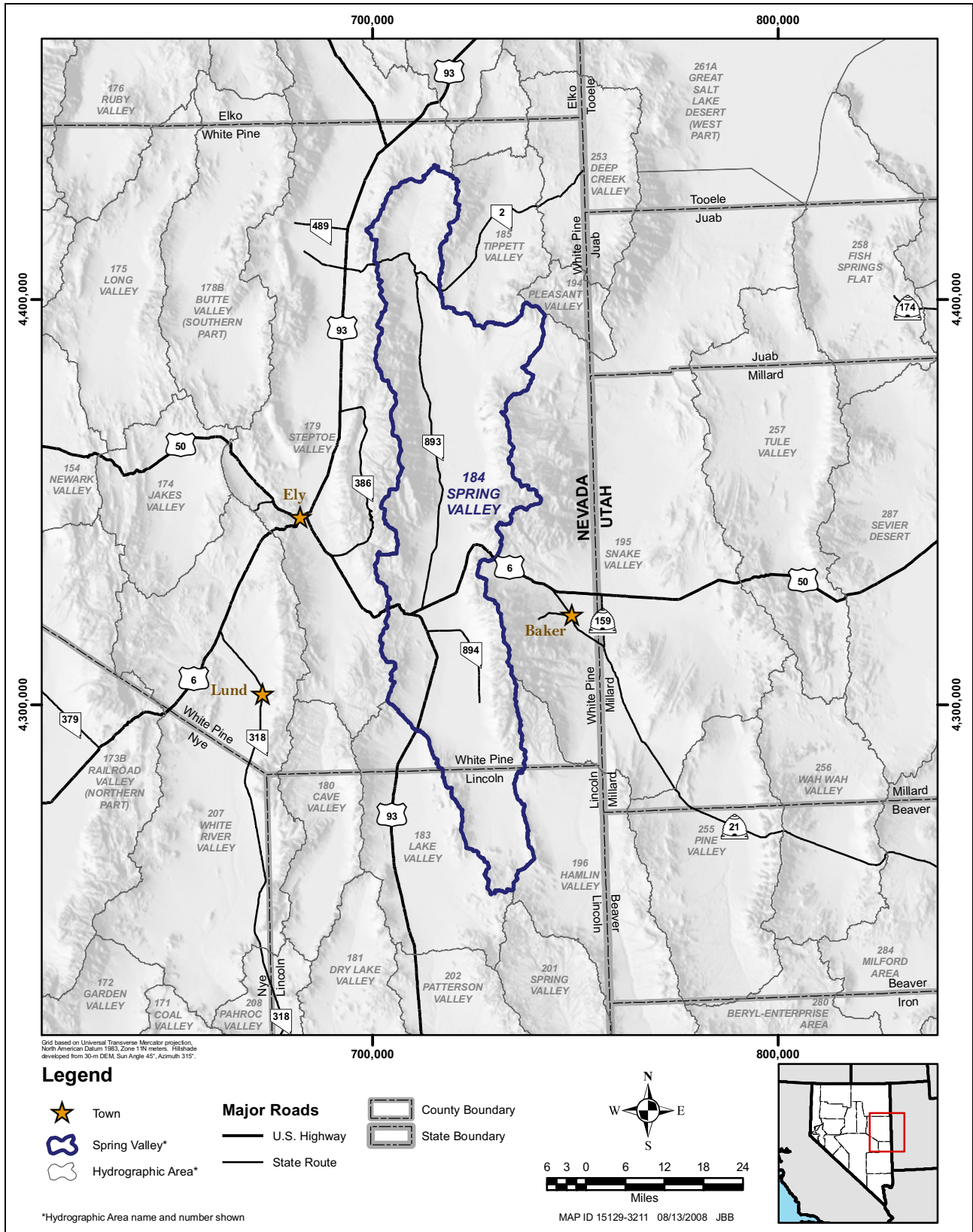


Figure 1-1
Spring Valley Hydrographic Area 184

Valley permit numbers 54003 through 54015, and 54019 and 54020. Ruling 6164 also approved the SNWA Hydrologic Monitoring and Mitigation Plan for Spring Valley and required that annual data reports be submitted to the NSE. After several appeals of Ruling 6164 were filed, White Pine County Seventh Judicial District Court Senior Judge Estes sent the ruling back to the NSE for further consideration on four issues. The Nevada Supreme Court declined to review the subsequent appeals, and the NSE remand hearings are currently scheduled for September and October 2017.

On September 15, 2011, a Stipulation for Withdrawal of Protests was established between SNWA and the United States Forest Service (USFS) (Stipulation, 2011). The SNWA/USFS Stipulation requires hydrologic monitoring and water-chemistry sampling of two additional spring locations in Spring Valley, with biological monitoring at one of the sites. SNWA and USFS have selected the monitoring sites and will proceed with permitting and installation upon project authorization.

The following memorandums memorializing TRP, BWG, and NSE consensus recommendations to revise the SV3M Plan are included in the 2014 SV3M Plan Status and Data Report (SNWA, 2015a) and posted in the TRP data exchange website:

1. May 2010 memorandum in which the parties agreed to modify the water-chemistry sampling program.
2. October 2014 memorandum in which the parties agreed to modify the “Existing Well Network”.
3. February 2015 memorandum in which the parties agreed to specific biological-monitoring recommendations.

1.2 Major Activities Performed in 2016

Major activities associated with the SV3M Plan performed in 2016 were as follows:

- Continued implementation of the SV3M Plan including data collection efforts and maintenance of the monitoring-network sites.
- Maintained the SNWA data-exchange web site accessible by the NSE, EC, TRP, and BWG. The web site contains project reports, monitoring network attributes, and hydrologic data.
- Provided technical assistance to the BWG regarding implementation of the biological monitoring plan.

1.3 Report Organization

[Section 2.0](#) presents the status and data collected for each major element of the SV3M Plan. [Section 3.0](#) discusses the planned activities for 2017, and [Section 4.0](#) provides a list of report references. [Appendix A](#) through [Appendix E](#) present tables and graphs of the various data discussed in the report.



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2.0 SV3M PLAN STATUS AND DATA

The current status of each major element of the SV3M Plan is presented in this section. Hydrologic data collected in calendar year (CY) 2016 associated with monitoring groundwater conditions, spring and stream discharge, precipitation, and field water-chemistry are also presented. No aquifer testing was performed on program wells during CY 2016.

2.1 Monitor-Well Network

The SV3M Plan identifies the specific number and distribution of monitor wells needed to meet program objectives. Existing wells and future new well locations were selected through consensus of the TRP and/or NSE and incorporated into the monitoring network.

The monitor-well network, including existing and future new wells, is presented in [Figure 2-1](#), which also reflects all revisions to the SV3M Plan to date. Each well-identification number on the figure includes a Q or C designation for quarterly or continuous measurement frequency.

The plan elements which have been implemented are summarized below:

- Selection of 25 existing wells was originally completed in 2007. The data from the wells were evaluated in 2014 by the TRP in consultation with the NSE. This resulted in several revisions to the network. The frequency of monitoring at these wells consists of 15 locations monitored continuously (one-hour intervals) and 10 monitored quarterly. The current network and descriptions of the wells are presented in [Section 2.1.2.2](#).
- Installation of two monitor wells southeast of Shoshone Ponds (SPR7024M and SPR7024M2) in 2011. The monitoring frequency of the two wells is continuous. These wells are described in [Section 2.1.2.3](#).
- Installation of four new monitor wells associated with Cleveland Ranch (SPR7029M, SPR7029M2, SPR7030M, and SPR7030M2) in 2011. SPR7029M replaced the Cleve Creek Well (391224114293601) as part of the existing well network in 2014. The monitoring frequency is quarterly. These wells are described in [Section 2.1.2.4](#).
- Monitoring of all SNWA exploratory wells in the program area at least quarterly, as described in [Section 2.1.2.1](#).
- Installation of shallow piezometers near 12 springs in Spring Valley between 2008 and 2010. Continuous monitoring is performed at 11 locations. The piezometers are discussed in [Section 2.3](#).

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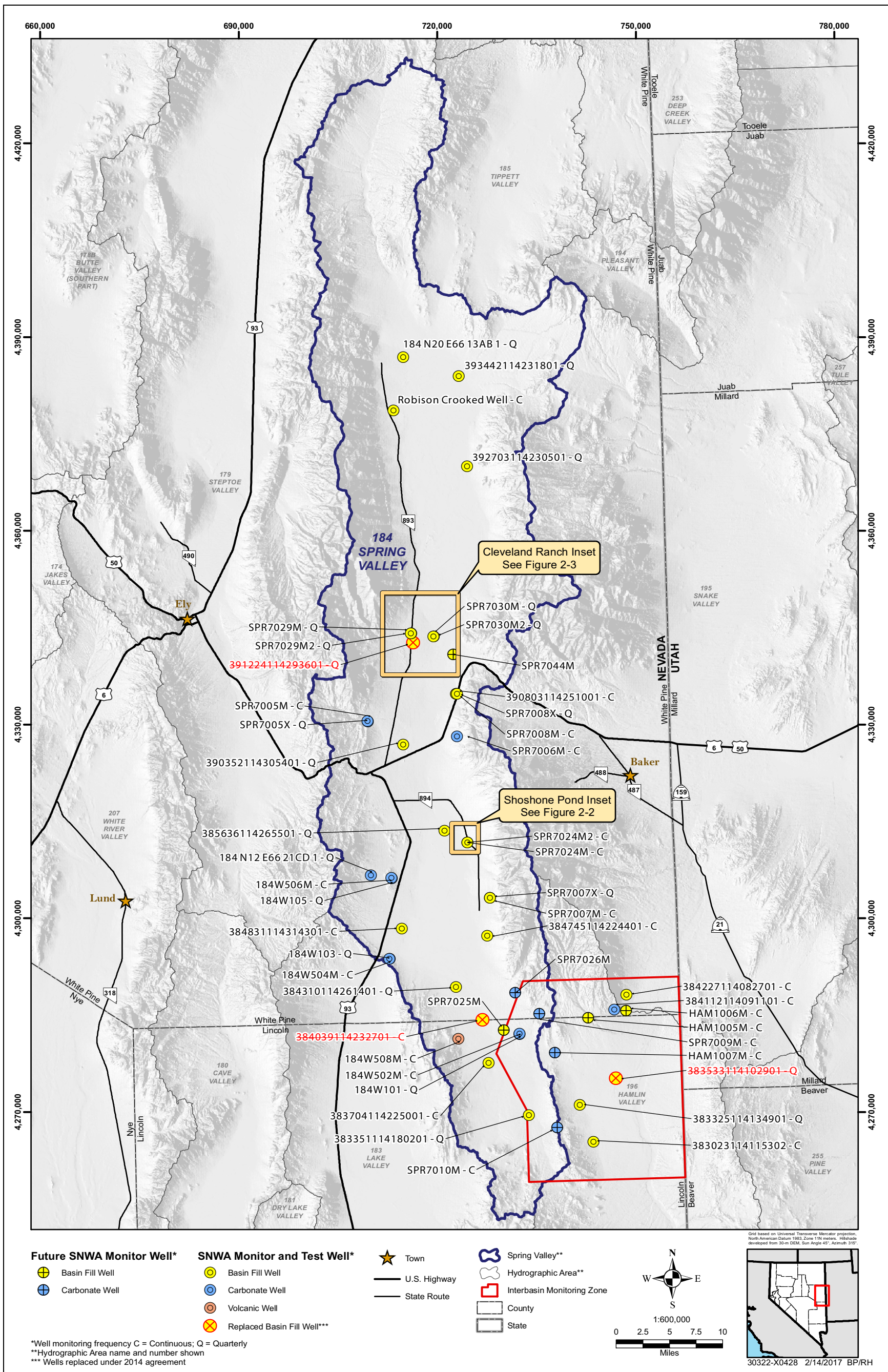


Figure 2-1
Spring Valley Monitor-Well Network with 2014 Consensus Modifications

Additional elements of the well network planned for future implementation are presented below:

- Installation of five additional monitor wells in the Interbasin Monitoring Zone (Zone) to evaluate groundwater conditions between Spring, Hamlin, and Snake Valleys. The locations have been identified by the TRP, and right-of way access has been granted by BLM. These wells are described in [Section 2.1.3.1](#).
- Installation of two near-Zone monitor wells between the two closest production sites and the Zone, as described in [Section 2.1.3.2](#). Well locations and completion specifications will be selected by consensus of the TRP and NSE after the configuration of the production-well network is determined by SNWA.
- Installation of one carbonate or basin-fill monitor well located one mile north of the northern most production well on the east side of Spring Valley. The well location will be selected after the configuration of the production-well network is determined by SNWA.
- Continuous monitoring of groundwater levels in all future project monitor and production wells.

A table of program monitor wells including well-construction attribute information, location coordinates, ground-surface elevation, completion hydrogeologic unit, and monitoring frequency is presented in [Table 2-1](#). A professional-grade survey of location coordinates and ground-surface and top-of-casing measuring-point elevations was performed for each well in the network.

2.1.1 Well Network Hydrologic Data

Periodic water-level data collected in CY 2016 for each monitor well are presented in [Appendix A](#). Period of record water-level data are also presented on hydrographs for the wells which are not continuously monitored. Periodic and continuous data collected at wells removed from the program in 2014 by the TRP in consensus with the NSE are also presented in [Appendix A](#). [Appendix B](#) presents the CY 2016 mean daily values derived from continuous data collection at wells where continuous data collection is required. Hydrographs present both periodic and continuous data for CY 2016 and the period of record. Some of the early period of record data collected prior to establishment of the SNWA monitoring program at certain well locations are approximate or are omitted because of the uncertainty associated with collection methods and procedures, or the reference point used for the measurement at the time of collection.

2.1.2 Well Network

The well network consists of exploratory test wells and monitor wells. Details regarding the well network are provided in this section.

Table 2-1
SV3M Plan Well Network (arranged from north to south)
 (Page 1 of 2)

| SNWA Site Number | NDWR Station Local Number ^b | Location | | Surface ^c Elevation (ft amsl) | Completion Date | Drill Depth (ft bgs) | Well Depth (ft bgs) | Well Casing Diameter (in.) | Screened Interval (ft bgs) | Open Interval | Aquifer | Monitoring Frequency |
|--------------------|--|-------------------------------|------------------------------|--|-----------------|----------------------|---------------------|----------------------------|----------------------------|---------------|------------|----------------------|
| | | UTM ^a Northing (m) | UTM ^a Easting (m) | | | | | | | | | |
| 184 N20 E66 13AB 1 | 184 N20 E66 13BADA1 | 4,386,884.19 | 714,871.84 | 5,774.93 | 6/26/1966 | 907 | 296 | 16 | 135 to 296 | --- | Basin Fill | Quarterly |
| 393442114231801 | 184 N20 E67 26ABBD1 | 4,383,955.15 | 723,240.35 | 5,708.77 | Unknown | 130 | 130 | 6 | --- | 50 to 130 | Basin Fill | Quarterly |
| Robison Crooked | 184 N19 E66 11B 1 | 4,378,627.03 | 713,381.69 | 5,698.43 | 4/22/1960 | --- | 400 | --- | --- | 50 to 400 | Basin Fill | Continuous |
| 392703114230501 | 184 N18 E67 01CCAA1 | 4,369,956.56 | 724,523.82 | 5,587.78 | 1934-36? | 45 | 42 | 38 | --- | --- | Basin Fill | Quarterly |
| SPR7029M2 | 184 N16 E66 25DBCA1 | 4,344,123.42 | 716,052.20 | 5,876.66 | 4/18/2011 | 437 | 422.6 | 12 | 382.14 to 422.1 | 360 to 430 | Basin Fill | Quarterly |
| SPR7029M | 184 N16 E66 25DBCD1 | 4,344,090.03 | 716,054.99 | 5,876.83 | 4/29/2011 | 275 | 260.34 | 4 | 219.75 to 260.04 | 213 to 261.75 | Basin Fill | Quarterly |
| SPR7030M | 184 N16 E67 32ABAB1 | 4,343,631.40 | 719,460.97 | 5,617.15 | 2/19/2011 | 98 | 96.67 | 4 | 53.67 to 96.37 | 53.67 to 98 | Basin Fill | Quarterly |
| SPR7030M2 | 184 N16 E67 32ABAB2 | 4,343,620.29 | 719,454.00 | 5,617.79 | 2/11/2011 | 240 | 236.42 | 4 | 194.17 to 236.12 | 173.8 to 237 | Basin Fill | Quarterly |
| 390803114251001 | 184 N15 E67 26CA 1 | 4,334,740.47 | 722,963.02 | 5,727.21 | Unknown | --- | 200 | 2 | --- | 50 to 200 | Basin Fill | Continuous |
| SPR7008X | 184 N15 E67 26CADC1 | 4,334,727.66 | 722,847.72 | 5,702.99 | 11/27/2007 | 970 | 960 | 20 | 240 to 940 | 102 to 970 | Basin-Fill | Quarterly |
| SPR7008M | 184 N15 E67 26CDAB1 | 4,334,702.61 | 722,865.27 | 5,704.86 | 7/25/2007 | 960 | 946 | 8 | 226 to 926 | 54 to 960 | Basin Fill | Continuous |
| SPR7005X | 184 N14 E66 09ABCA2 | 4,330,506.86 | 710,356.78 | 6,397.56 | 4/11/2008 | 1,395 | 1,350 | 20 | 669 to 1,330 | 511 to 1,395 | Carbonate | Quarterly |
| SPR7005M | 184 N14 E66 09ABCA1 | 4,330,471.51 | 710,372.44 | 6,395.68 | 7/10/2007 | 1,412 | 1,404 | 8 | 663 to 1,383 | 439 to 1,412 | Carbonate | Continuous |
| SPR7006M | 184 N14 E67 14DDAC1 | 4,328,163.49 | 723,872.61 | 6,525.18 | 9/20/2007 | 1,720 | 1,701 | 8 | 980 to 1,680 | 167 to 1,720 | Carbonate | Continuous |
| 390352114305401 | 184 N14 E66 24BDDD1 | 4,326,894.19 | 714,873.84 | 5,846.04 | 1980 | --- | 160 | 2 | --- | 50 to 160 | Basin Fill | Quarterly |
| 385636114265501 | 184 N13 E67 33DDA 1 | 4,313,590.54 | 721,086.82 | 5,769.73 | Unknown | --- | --- | 36 | --- | --- | Basin Fill | Quarterly |
| SPR7024M2 | 184 N12 E67 01CCCD2 | 4,311,765.99 | 724,560.80 | 5,863.08 | 3/27/2011 | 720 | 699.38 | 4 | 661.13 to 669.08 | 650.08 to 720 | Basin Fill | Continuous |
| SPR7024M | 184 N12 E67 01CCCD1 | 4,311,753.95 | 724,554.55 | 5,861.10 | 3/30/2011 | 260 | 249.76 | 4 | 209.3 to 249.46 | 200.5 to 260 | Basin Fill | Continuous |
| 184 N12 E66 21CD 1 | 184 N12 E66 21DCCB1 | 4,306,700.53 | 710,871.15 | 6,370.31 | 9/13/1966 | 631 | 631 | 6 | 3 to 631 | 3 to 631 | Carbonate | Quarterly |
| 184W506M | 184 N12 E66 26BADC1 | 4,306,214.21 | 713,939.81 | 6,014.04 | 10/19/2006 | 1,160 | 1,140 | 8 | 430 to 1,120 | 80 to 1,160 | Carbonate | Continuous |
| 184W105 | 184 N12 E66 26BDAA1 | 4,306,176.07 | 713,991.23 | 6,007.30 | 11/7/2006 | 1,160 | 1,135 | 20 | 418 to 1,114 | 60 to 1,160 | Carbonate | Quarterly |
| SPR7007X | 184 N11 E68 05BCBC2 | 4,303,152.00 | 727,946.17 | 6,017.53 | 1/24/2008 | 1,040 | 1,020 | 20 | 299 to 1,000 | 155 to 1,040 | Basin-Fill | Quarterly |
| SPR7007M | 184 N11 E68 05BCBC1 | 4,303,146.59 | 727,976.03 | 6,017.73 | 8/17/2007 | 1,040 | 1,020 | 8 | 300 to 1,000 | 101 to 1,040 | Basin Fill | Continuous |
| 384831114314301 | 184 N11 E66 23AB 1 | 4,298,411.13 | 714,633.01 | 5,842.94 | Unknown | 102 | 102 | 2 | --- | 50 to 102 | Basin Fill | Continuous |
| 384745114224401 | 184 N11 E68 19DCDC1 | 4,297,304.22 | 727,554.19 | 5,900.18 | Unknown | 200 | 200 | 2 | --- | 50 to 200 | Basin Fill | Continuous |
| 184W504M | 184 N11 E66 35CCCC1 | 4,293,712.49 | 713,647.12 | 5,900.11 | 11/17/2006 | 1,040 | 1,020 | 8 | 309 to 999 | 61 to 1,040 | Carbonate | Continuous |
| 184W103 | 184 N11 E66 35CCCC2 | 4,293,693.03 | 713,697.74 | 5,899.06 | 12/6/2006 | 1,046 | 1,017 | 20 | 296 to 996 | 60 to 1,046 | Carbonate | Quarterly |
| 384310114261401 | 184 N10 E67 22AA 1 | 4,289,331.34 | 722,826.33 | 5,853.54 | Unknown | --- | 100 | 2 | --- | 50 to 100 | Basin Fill | Quarterly |



Table 2-1
SV3M Plan Well Network (arranged from north to south)
 (Page 2 of 2)

| SNWA Site Number | NDWR Station Local Number ^b | Location | | Surface ^c Elevation (ft amsl) | Completion Date | Drill Depth (ft bgs) | Well Depth (ft bgs) | Well Casing Diameter (in.) | Screened Interval (ft bgs) | Open Interval | Aquifer | Monitoring Frequency |
|------------------------------|--|-------------------------------|------------------------------|--|-----------------|----------------------|---------------------|----------------------------|----------------------------|---------------|------------------|----------------------|
| | | UTM ^a Northing (m) | UTM ^a Easting (m) | | | | | | | | | |
| 384227114082701 ^d | 195 N10 E70 28CBCB1 | 4,288,208.30 | 748,609.36 | 5,815.18 | 9/27/2009 | 460 | 460 | 8 | 300 to 460 | 140 to 460 | Basin Fill | Continuous |
| 384112114091101 ^d | 196 N09HE70 32BBA 1 | 4,285,847.90 | 747,616.56 | 6,019.53 | 7/7/2010 | 700 | 700 | 8 | 500 to 700 | 450 to 700 | Carbonate | Continuous |
| 184W502M | 184 N09 E68 11BDBD1 | 4,282,116.35 | 733,294.42 | 6,189.72 | 1/25/2007 | 1,828 | 1,799 | 8 | 495 to 1,779 | 58 to 1,828 | Carbonate | Continuous |
| 184W101 | 184 N09 E68 11BDCA1 | 4,282,062.02 | 733,297.65 | 6,190.90 | 2/24/2007 | 1,760 | 1,749 | 20 | 796 to 1,728 | 135 to 1,760 | Carbonate | Quarterly |
| 184W508M | 184 N09 E67 11DBCD1 | 4,281,308.68 | 724,070.89 | 6,056.19 | 12/15/2006 | 1,180 | 1,160 | 8 | 376 to 1,140 | 241 to 1,180 | Volcanic | Continuous |
| 383704114225001 | 184 N09 E68 30AAAB1 | 4,277,594.57 | 727,759.99 | 6,002.52 | 8/7/1980 | 700 | 679 | 11 | 559 to 679 | 50 to 700 | Basin Fill | Continuous |
| 383325114134901 | 196 N08 E69 15B 1 | 4,271,103.41 | 741,539.28 | 5,729.98 | Unknown | --- | 110 | 6 | --- | 50 to 110 | Basin Fill | Quarterly |
| 383351114180201 | 184 N08 E68 14A 1 | 4,269,504.76 | 733,845.43 | 6,184.22 | Unknown | --- | 495 | 6 | 50 to 495 | 50 to 495 | Basin Fill | Quarterly |
| 383023114115302 | 196 N08 E69 35DC 2 | 4,265,403.02 | 743,597.36 | 5,837.67 | 8/7/1980 | 520 | 435 | 2 | 320 to 420 | 35 to 520 | Basin Fill | Continuous |
| HAM1005M | 196 N10 E69 02 BBA 1 | 4,284,588 ^d | 742,819 ^d | 6,397 ^d | Future | --- | --- | --- | --- | --- | Basin Fill | Continuous |
| HAM1006M | 196 N95 E70 32 AAD 1 | 4,285,699 ^d | 748,554 ^d | 5,797 ^d | Future | --- | --- | --- | --- | --- | Basin Fill | Continuous |
| SPR7009M | 184 N10 E68 36 ACC 1 | 4,285,242 ^d | 735,445 ^d | 6,494 ^d | Future | --- | --- | --- | --- | --- | Carbonate | Continuous |
| HAM1007M | 196 N09 E69 20 BCB 1 | 4,279,203 ^d | 737,774 ^d | 6,025 ^d | Future | --- | --- | --- | --- | --- | Carbonate | Continuous |
| SPR7010M | 184 N08 E69 29 CBB 1 | 4,267,545 ^d | 738,113 ^d | 6,458 ^d | Future | --- | --- | --- | --- | --- | Carbonate | Continuous |
| SPR7025M | --- | --- ^e | --- ^e | --- ^e | Future | --- | --- | --- | --- | --- | Basin Fill | Continuous |
| SPR7026M | --- | --- ^e | --- ^e | --- ^e | Future | --- | --- | --- | --- | --- | Carbonate | Continuous |
| SPR7044M | --- | --- ^e | --- ^e | --- ^e | Future | --- | --- | --- | --- | --- | --- ^e | Continuous |
| 391224114293601 ^f | 184 N16 E66 36DBAD1 | 4,342,683.25 | 716,362.90 | 5,870.25 | Unknown | --- | --- | --- | --- | --- | Basin Fill | --- |
| 384039114232701 ^f | 184 N10 E68 31CD 1 | 4,284,275.68 | 726,871.51 | 5,896.49 | Unknown | --- | 150 | 2 | --- | 50 to 150 | Basin Fill | --- |
| 383533114102901 ^f | 196 N08 E70 06B 1 | 4,275,166.91 | 747,014.36 | 5,676.76 | 7/22/1947 | --- | 164 | 6 | 111 to 115/ 152 to 164 | --- | Basin Fill | --- |

^aUniversal Transverse Mercator, North American Datum, 1983, Zone 11.

^bStation Local Numbers provided by the Nevada Department of Water Resources.

^cElevations are North American Vertical Datum of 1988 (NAVD88).

^dCoordinates and Elevation are approximate and will be updated upon a professional survey of the well location.

^eTo be determined.

^fMonitor wells removed from program in 2014 by TRP in consensus with NSE.



2.1.2.1 Exploratory- and Production-Well Monitoring

The SV3M Plan states that SNWA shall record discharge and groundwater levels in all completed SNWA production wells on a continuous basis and quarterly measurements of groundwater levels in all SNWA exploratory wells. SNWA does not currently have any production wells associated with this project.

Six exploratory test and eight associated observation wells were installed by SNWA in Spring Valley between 2006 and 2008 (SNWA, 2009a). The eight observation wells were selected by the TRP for continuous monitoring, instrumented with continuous monitoring equipment, and incorporated into the Existing Monitor Wells network as described below in [Section 2.1.2.2](#). Water levels in the six test wells are measured quarterly.

2.1.2.2 Existing Monitor Wells

The SV3M Plan states that SNWA shall monitor groundwater levels quarterly in 10 representative existing monitor wells and continuously in 15 representative existing monitor wells in Spring and Hamlin valleys at locations agreed upon by the TRP and NSE.

In 2007, the TRP, in consultation with the NSE, selected 25 wells to be included in the Existing Monitor Well network. Wells were selected based upon integrity of construction, location, and completion information. Wells included in the network are completed in carbonate-rock, volcanic, and basin-fill aquifers. Well ownership and site access are discussed in SNWA (2012).

In 2014, the TRP, in consultation with the NSE, revised the monitoring network. Three wells were removed, two wells were added, and the monitoring frequencies were changed for two wells. These revisions to the network and the underlying rationale are described in detail in the TRP consensus memo presented in the 2014 SNWA SV3M Plan Status and Data Report (SNWA, 2015a).

2.1.2.3 Two Monitor Wells near Shoshone Ponds

The SV3M Plan states that SNWA shall construct and equip two monitor wells between Shoshone Ponds and the nearest production well. These wells, SPR7024M and SPR7024M2, were selected with consensus of the TRP and NSE and installed by SNWA southeast of Shoshone Ponds outside the Area of Critical Environmental Concern. The well locations are presented in [Figure 2-2](#). The wells were constructed in March, 2011 and are completed in the basin-fill to depths of 260 and 720 ft bgs, respectively.

2.1.2.4 Cleveland Ranch Hydrologic Monitoring

Monitoring locations in the vicinity of Cleveland Ranch consist of two spring and five groundwater sites. These include a flume and shallow piezometer at the North Cleveland Ranch Spring, a flume and two monitor wells near the South Cleveland Ranch Spring and two monitor wells west of Cleveland Ranch. Well SPR7029M is the replacement monitor well for the old Cleve Well and is included in the Existing Monitor Well network as described in [Section 2.1.2.2](#). The gage and well

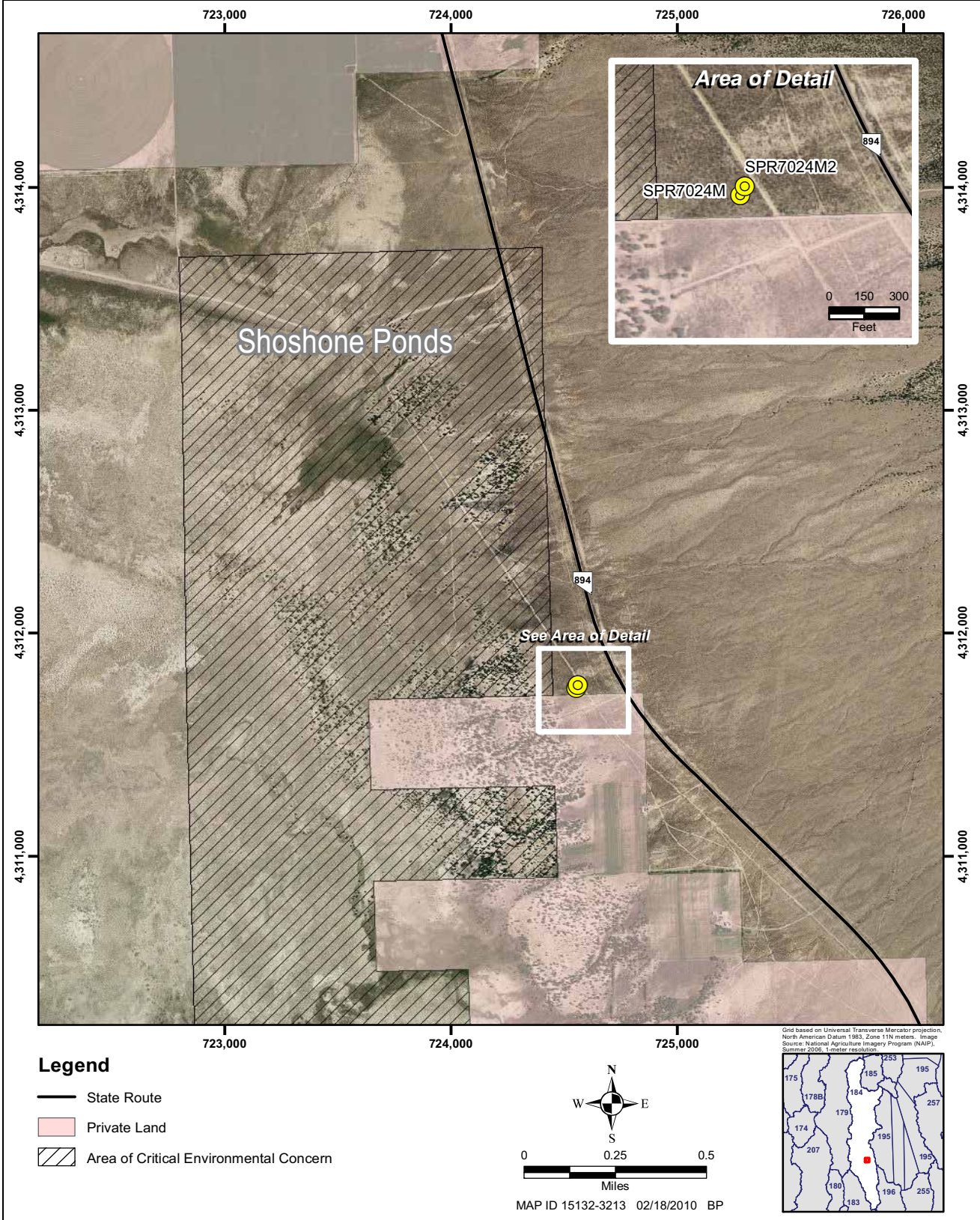


Figure 2-2
Location of Monitor Wells near Shoshone Ponds



locations were selected by consensus with the NSE and The Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter-Day Saints (CPB). The monitoring sites are presented in [Figure 2-3](#). The two spring discharge monitoring sites are discussed in [Section 2.3](#).

Two monitor wells, SPR7030M and SPR7030M2, located near the South Cleveland Ranch Spring were completed in February 2011 in separate lithologic units at depths of 98 and 240 ft bgs, respectively. Both wells encountered flowing artesian conditions. Two additional clustered shallow and deep monitor wells, SPR7029M and SPR7029M2, were completed in April, 2011 in the basin fill to depths of 275 and 437 ft bgs, respectively. The objective of the clustered wells is to characterize and monitor changes of the vertical hydraulic gradient and provide groundwater elevations to compare with discharge measured at the south spring.

2.1.3 Future Monitor Wells

The SV3M Plan requires the installation of new monitor wells at specific locations. This section presents a description and the current status of the new wells.

2.1.3.1 Interbasin Monitoring Zone Network

The Stipulation established the Interbasin Monitoring Zone (Zone) and requires data collection to characterize the hydraulic gradient between Spring, Hamlin, and Snake Valleys. In the fall of 2007, the TRP selected six wells to comprise the monitor-well network in the Zone. The wells include carbonate monitor well 184W502M, which was installed in 2006, and five additional future well locations. The future locations will include three carbonate-rock and two basin-fill wells. The locations of these future well sites and Zone boundaries are presented in [Figure 2-1](#). In addition to these future wells, there are five other existing basin-fill wells located within the Zone which are part of the program and monitored at least quarterly.

Right-of-way applications for the future SNWA well sites in the Zone were submitted in 2007 and were approved by BLM in late 2009. Construction of the five new wells is not anticipated until the project is authorized and permitted for construction. Wells will be installed to meet baseline monitoring requirements as required by the Stipulation and SV3M Plan. No target date for well construction has been set as of the date of this report. After construction, a short-term aquifer test will be performed, and water-chemistry samples will be collected at each of the new sites. Each well will then be equipped with a datalogger and pressure transducer to collect continuous water-level data. A professional survey of location coordinates, ground-surface elevation, and top-of-casing measuring-point elevations will also be performed.

2.1.3.2 Two Monitor Wells between the Zone and Closest Production Well

The SV3M Plan states that SNWA shall construct and equip two monitor wells in conjunction with the construction of two SNWA production wells in Spring Valley that are closest to the Zone boundary, unless alternative sites are recommended by the TRP and approved by the EC and NSE.

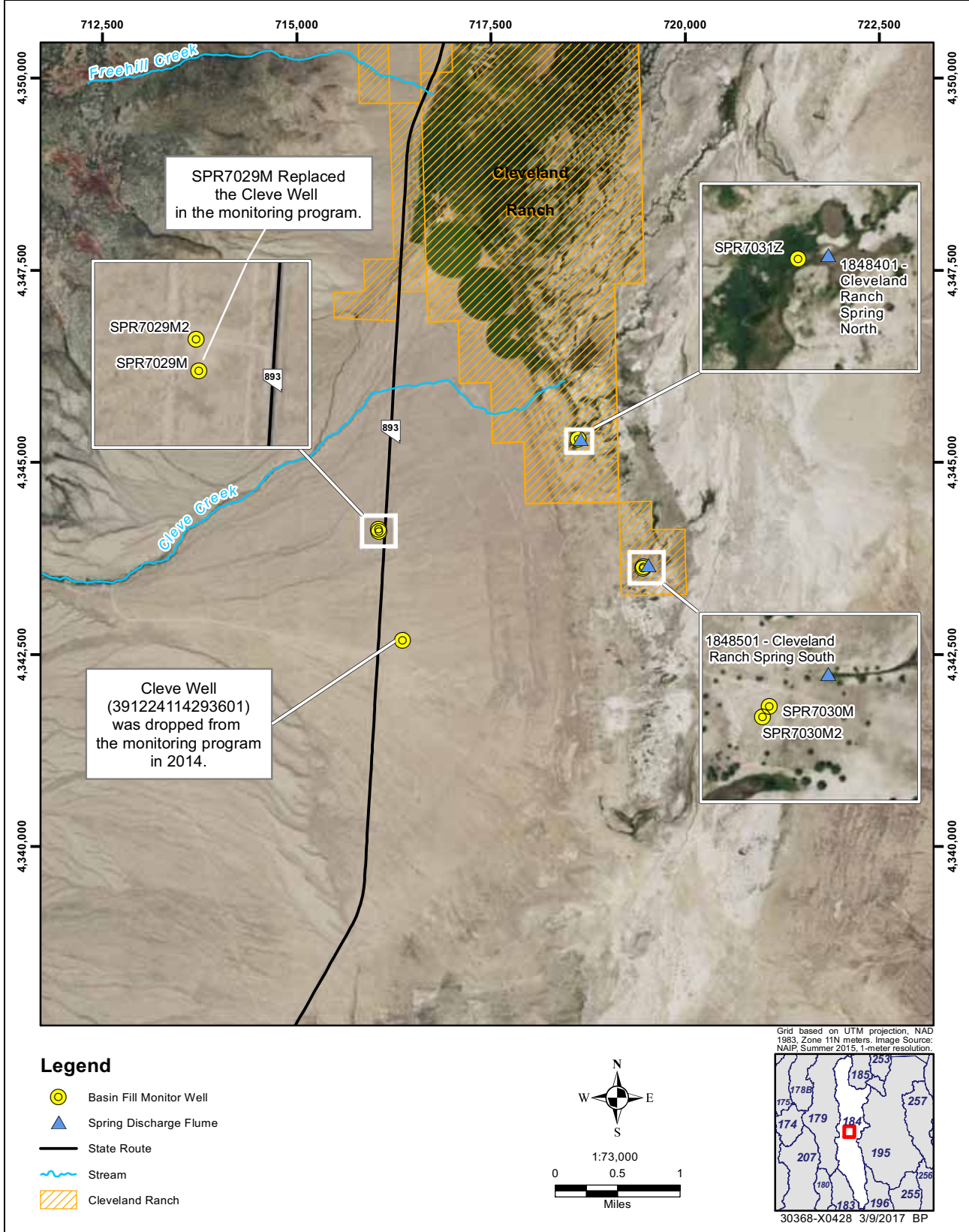


Figure 2-3
Monitoring Sites Associated with Cleveland Ranch



Well locations and hydrogeologic units in which the monitor wells will be completed will be determined after the location of the production wells closest to the Zone are identified. After installation, the monitor wells will be equipped with dataloggers and pressure transducers to collect continuous water-level data.

2.1.3.3 Monitor Well North of Production Wells

One monitor well completed in carbonate rock or basin fill will be located approximately one mile north of the northern most production well on the east side of Spring Valley. The well location will be selected in consensus with the NSE after SNWA determines the configuration of the production-well network.

2.2 Aquifer Testing

The SV3M Plan requires that two constant-rate tests be performed in Spring Valley, at the closest production well completed nearest to the Zone and in the basin-fill and carbonate-rock aquifers. To date, six 72- to 120-hour constant-rate tests have been performed on SNWA exploratory test wells in Spring Valley. Test summaries and results have been reported in previous annual reports, with greater detail provided in the hydrologic analysis reports associated with each well test. A summary of parameters and results for the tests are provided in the 2011 annual monitoring report (SNWA, 2012).

2.3 Spring Monitoring Network

The spring monitoring network includes springs located in Spring Valley on the valley floor, range-front, and mountain-block areas. Spring monitoring locations are presented on [Figure 2-4](#). The springs are monitored by performing periodic or continuous discharge measurements, measuring staff plates in spring pools, and/or measuring water levels in spring piezometers.

The SV3M Plan states that SNWA shall install, equip, and maintain a piezometer near 12 spring locations. In 2007, the TRP, in conjunction with the BWG and NSE, reviewed and conducted a field visit to potential spring monitoring locations. At that time, the group agreed to add an additional spring to the network for a total of 13 spring locations. Later, the NSE required Turnley Spring and two springs located on Cleveland Ranch to be added to the network for discharge monitoring.

Currently, a total of 16 representative springs located in Spring Valley comprise the spring monitoring network. Of the 16 springs, 11 sites have continuous monitoring of water levels at associated piezometers. Four locations are monitored for discharge only, and one location, the North Cleveland Ranch Spring, is monitored quarterly for discharge and piezometer-water level. Spring discharge monitoring sites are listed in [Table 2-2](#). Location and construction data for the 12 piezometers are presented in [Table 2-3](#).

Ten piezometers utilized in the spring network were installed in 2010, and subsequently equipped in 2011 with integrated dataloggers and pressure transducers to collect continuous water-level data. One piezometer (SPR7007Z) located on SNWA property at Minerva Spring was installed in 2008. A professional survey of coordinate locations and elevations of ground-surface and top-of-casing

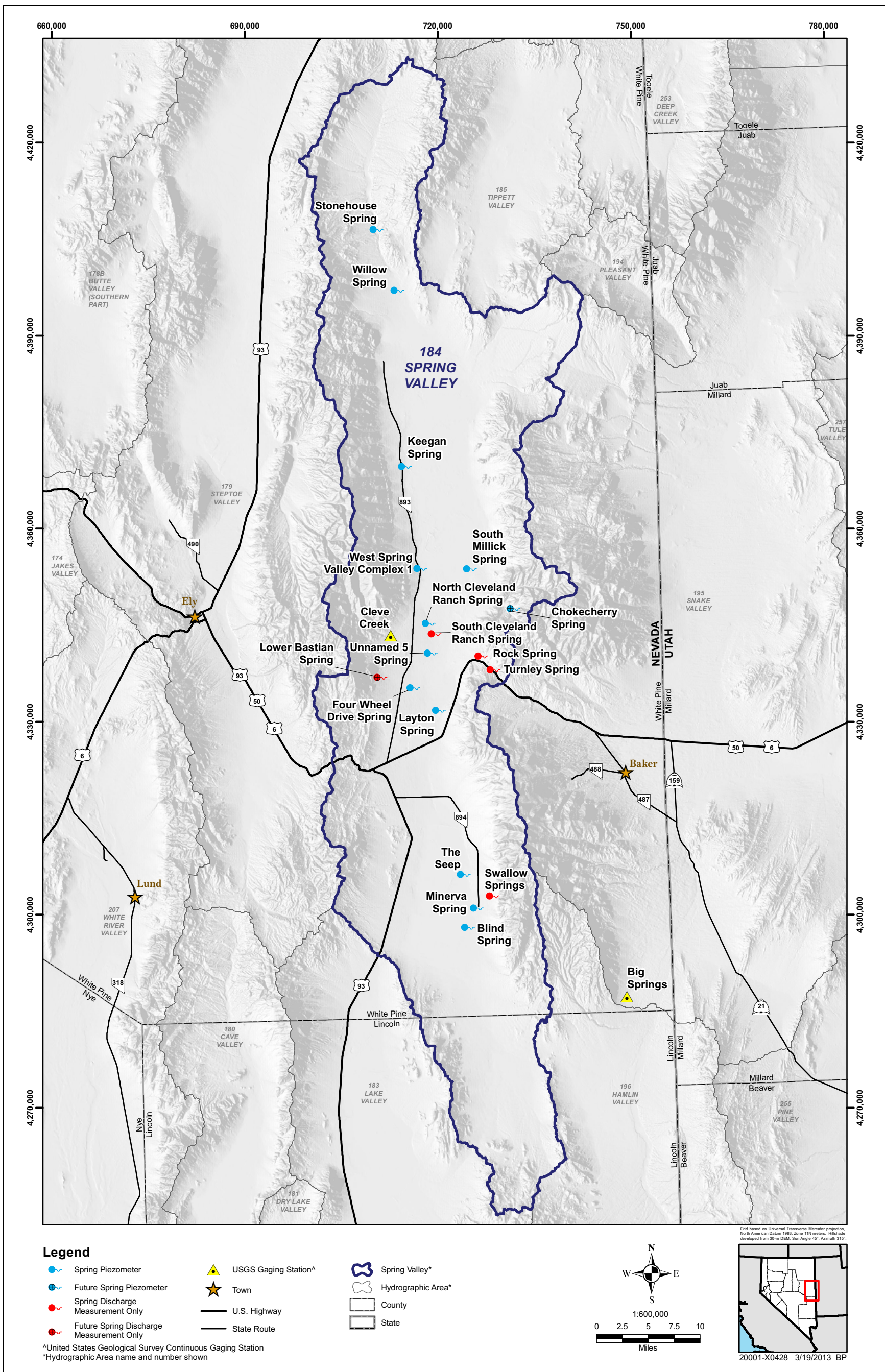


Figure 2-4
Spring and Stream Hydrologic Monitoring Locations

measuring points was performed for each piezometer. Continuous groundwater level data from the piezometers are presented in [Appendix C](#).

**Table 2-2
Spring Discharge Monitoring Sites**

| Site Number | Spring Name | Location | | Physiographic Setting |
|-------------|-----------------------------------|------------------|-----------------|--------------------------|
| | | UTM Northing (m) | UTM Easting (m) | |
| 1848401 | Cleveland Ranch Spring North | 4,345,301 | 718,654 | Basin Fill/Valley Floor |
| 1848501 | Cleveland Ranch Spring South | 4,343,666 | 719,523 | Basin Fill/Valley Floor |
| 1845501 | Willow Spring ^a | 4,397,069 | 713,756 | Basin Fill/Valley Floor |
| 1845702 | South Millick Spring ^a | 4,353,754 | 725,031 | Basin Fill/Valley Floor |
| 1845901 | Layton Spring ^a | 4,331,794 | 720,204 | Basin Fill/Valley Floor |
| 1846201 | Swallow Springs ^a | 4,302,920 | 728,597 | Basin Fill/Range Front |
| 1847101 | Keegan Spring | 4,369,664 | 715,050 | Basin Fill/Fan Margin |
| 1847301 | Rock Spring | 4,340,191 | 726,753 | Carbonate/Mountain Block |
| 1848001 | Turnley Spring ^a | 4,338,050 | 728,695 | Carbonate/Mountain Block |

All coordinates are Universal Transverse Mercator, North American Datum, 1983, Zone 11.

^aCoordinates are approximate.

On the Cleveland Ranch, a shallow piezometer (SPR7031Z) and a flume were installed in March 2011 in the immediate vicinity of two small springs located in the southwest part of Section 20, T16, R67E. The purpose of these monitoring sites is to measure shallow groundwater levels and discharge associated with these springs. A flume to measure the discharge of the South Cleveland Ranch Spring was installed in 2010. In October 2016 a shaft encoder and continuous recording gaging station was installed at the Cleveland Ranch Spring South. The periodic discharge data from South and North Cleveland Ranch Springs are presented in [Appendix C](#). Continuous discharge data collected at South Cleveland Ranch Spring for water year (WY) 2017 will be presented in the 2017 SV3M Plan and Data Status Report and, therefore, is not included in this report.

Turnley, Rock, and Swallow Springs are monitored for discharge only due to hydrogeologic conditions at the sites. Rock and Swallow spring discharges are monitored continuously. The (WY) 2016 mean-daily discharge values for Rock and Swallow spring monitoring stations are presented in [Appendix C](#) along with the associated hydrographs.

Discharge measurements are also being performed at four other spring locations where measuring flow is physically possible. These springs are Layton, South Millick, Keegan, and Willow. Hydrologic and field water-quality data collected at Swallow, Layton, South Millick, Keegan, Willow, Rock, and Turnley springs are presented in [Appendix C](#).

In October 2014, a cooperative field reconnaissance was performed by the TRP and BWG to evaluate hydrologic monitoring alternatives to support BWG biological monitoring and interim studies. A

**Table 2-3
Spring Piezometer Sites and Completion Information**

| Site Number | Associated Spring | Location ^a | | Surface ^b Elevation (ft amsl) | Completion Date | Drill Depth (ft bgs) | Well Depth (ft bgs) | Well Diameter (in.) | Open Interval (ft bgs) | Screened Interval (ft bgs) | Aquifer |
|-------------|---------------------------------|------------------------|-----------------------|--|--------------------|-------------------------|------------------------|---------------------------|------------------------------|----------------------------------|------------|
| | | UTM Northing (m) | UTM Easting (m) | | | | | | | | |
| SPR7007Z | Minerva Spring | 4,301,057.50 | 726,134.41 | 5,828.66 | 1/18/2008 | 35 | 31 | 4 | 12 to 31.3 | 16 to 31 | Basin Fill |
| SPR7011Z | Blind Spring | 4,297,998.80 | 724,727.36 | 5,769.71 | 5/6/2010 | 31.3 | 31.3 | 2 | 13 to 31.3 | 16.1 to 31.1 | Basin Fill |
| SPR7012Z | 4WD Spring | 4,335,263.36 | 716,235.95 | 5,756.22 | 5/8/2010 | 25 | 25 | 2 | 4 to 25 | 9.8 to 24.8 | Basin Fill |
| SPR7014Z | The Seep | 4,306,272.49 | 724,093.39 | 5,778.54 | 5/7/2010 | 31 | 30.7 | 2 | 6 to 30.7 | 15.5 to 30.5 | Basin Fill |
| SPR7015Z | West Spring Valley Complex | 4,353,816.21 | 717,284.37 | 5,602.90 | 5/8/2010 | 40 | 38.2 | 2 | 8 to 38.2 | 23 to 38 | Basin Fill |
| SPR7016Z | Unnamed Spring 5 | 4,340,637.10 | 718,885.72 | 5,645.67 | 5/4/2010 | 35 | 32 | 2 | 15 to 32.0 | 16.8 to 31.8 | Basin Fill |
| SPR7018Z | S. Millick Spring | 4,353,623.95 | 725,156.47 | 5,587.16 | 5/4/2010 | 31 | 25.2 | 2 | 8 to 25.2 | 10 to 25 | Basin Fill |
| SPR7019Z | Layton Spring | 4,331,753.27 | 720,064.21 | 5,686.63 | 5/7/2010 | 35.3 | 35.3 | 2 | 9 to 35.3 | 20.1 to 35.1 | Basin Fill |
| SPR7020Z | Stonehouse Spring | 4,406,416.78 | 710,617.88 | 6,264.62 | 5/5/2010 | 9.3 | 9.3 | 2 | 2 to 9.3 | 4.1 to 9.1 | Basin Fill |
| SPR7021Z | Keegan Spring | 4,369,693.31 | 714,898.91 | 5,613.12 | 5/8/2010 | 20.7 | 20.7 | 2 | 4 to 20.7 | 5.5 to 20.5 | Basin Fill |
| SPR7022Z | Willow Spring | 4,397,090.42 | 713,752.68 | 5,987.54 | 5/5/2010 | 35 | 33.5 | 2 | 7 to 33.5 | 18.3 to 33.3 | Basin Fill |
| SPR7031Z | North Cleveland Ranch Spring | 4,345,295.85 | 718,622.45 | 5,637.32 | 3/3/2011 | 11.5 | 10.3 | 2 | 4 to 10.3 | 5 to 10 | Basin Fill |

^aAll coordinates are Universal Transverse Mercator, North American Datum, 1983, Zone 11.

^bElevations are North American Vertical Datum of 1988 (NAVD88).



consensus recommendation memo was prepared by the BWG and TRP in consultation with NSE. The consensus memo and description of current and additional proposed hydrologic monitoring associated with selected biological monitoring sites is presented in the 2014 SV3M Plan Status and Data Report (2015) and on the TRP data exchange website.

2.4 Stream Discharge Measurements

This section presents the current status of the stream monitoring at Cleve Creek and Big Springs and the associated data.

2.4.1 Discharge Sites at Cleve Creek and Big Springs Creek

The SV3M Plan states that a discharge monitoring site shall be operated and maintained on Cleve and Big Springs creeks. The gaging stations are identified as Cleve Creek near Ely, Nevada, in Spring Valley, SNWA Station Number 1841611 (USGS Station Number 10243700) and the north and south channels of Big Springs Creek near Baker, Nevada in Snake Valley, SNWA Station Number 1951901 (USGS Station numbers 102432241 and 10243224). The station locations are listed in [Table 2-4](#) and presented in [Figure 2-4](#).

**Table 2-4
Cleve Creek and Big Springs Monitoring Locations**

| SNWA Station Number | Station Name | Basin Number | Stream Number | Location ^a | | Watershed (mi ²) |
|---------------------|-------------------------------|--------------|---------------|-----------------------|-----------------|------------------------------|
| | | | | UTM Northing (m) | UTM Easting (m) | |
| 1841611 | Cleve Creek near Ely | 184 | 18416 | 4,343,423 | 712,669 | 32 |
| 1951901 | Big Springs at Gaging Station | 195 | 19519 | 4,287,293 | 749,422 | N/A |

^aAll coordinates are Universal Transverse Mercator, North American Datum, 1983, Zone 11.

N/A = Not applicable

Data collected in WY 2016 from these locations are provided in [Appendix D](#). The 2016 miscellaneous discharge-measurement data are listed in tables for each creek. Hydrographs of the discharge measurements and the mean daily-discharge values are provided for the entire period of record. Discharge data are also available through the National Water Information System (NWIS) (USGS, 2017).

2.4.1.1 Cleve Creek

Cleve Creek is located on the eastern slope of the Schell Creek Range. Stream flow is measured by the Cleve Creek near the Ely, Nevada, gaging station. The drainage area encompasses approximately 32 mi², making it the largest drainage area in Spring Valley. The USGS has maintained the gaging station intermittently since 1914. The complete period of record of the gage is June 1914 to December 1916; October 1959 to September 1967; October 1976 to September 1981; December 1982 to September 1987; and March 1990 through the present year (2017). A crest-stage partial record exists



for the station from October 1967 to September 1976 (USGS, 2017). Annual and period of record (POR) statistics are described in Table 2-5.

Table 2-5
Cleve Creek and Big Springs Statistics

| SNWA Station Number | Station Name | WY 2016 Mean Annual Discharge (cfs) | POR Mean Annual Discharge (cfs) | POR Min/Max Year | POR Min/Max Discharge (cfs) |
|---------------------|------------------------------|-------------------------------------|---------------------------------|------------------|-----------------------------|
| 1841611 | Cleve Creek near Ely | 7.80 | 10.1 | 1960/1984 | 5.15/22.2 |
| 1951903 | Big Springs at South Channel | 5.08 | 5.64 | 2016/2008 | 5.08/6.33 |
| 1951904 | Big Springs at North Channel | 3.25 | 3.67 | 2016/2006 | 3.25/4.00 |

From NWIS (USGS, 2017).

2.4.1.2 Big Springs Creek

Big Springs Creek is located at the base of the eastern slope of the southern Snake Range, approximately 17 mi south of Garrison, Utah. Miscellaneous discharge measurements have been collected since 1972. In early 2005, the USGS, in cooperation with SNWA and NDWR, installed gaging stations at Big Springs. The USGS records are published as Station Number 10243224 Big Springs Creek South Channel near Baker, Nevada, and Station Number 102432241 Big Springs Creek North Channel near Baker, Nevada. The USGS has maintained these stations since 2005 (USGS, 2017). Annual and period-of-record (POR) statistics are described in Table 2-5.

2.4.2 Synoptic-Discharge Study of Big Springs and Lake Creeks

The SV3M Plan states that SNWA shall collect, or fund the collection of two sets of synoptic-discharge measurements for the Big Springs Creek surface-water system from the spring orifices to Preuss Lake: one set of measurements each to be collected during irrigation and non-irrigation seasons at least 1 year prior to groundwater withdrawals by SNWA. Measurements are to be repeated every 5 years after SNWA groundwater production begins. The UGS currently operates gages on the creek near Stateline and Clay springs. The study area and current USGS and UGS gaging stations are presented in Figure 2-5.

A work plan for the synoptic-discharge study was approved by the TRP, EC and NSE and issued in February 2014 (SNWA, 2014b). The non-irrigation and irrigation season measurements were performed on March 5 and September 17, 2014, respectively. The findings from the study have been published as *Synoptic Discharge Study Big Springs and Lake Creeks, Snake Valley, Nevada and Utah - March 5, 2014 and September 17, 2014* (SNWA, 2015b).

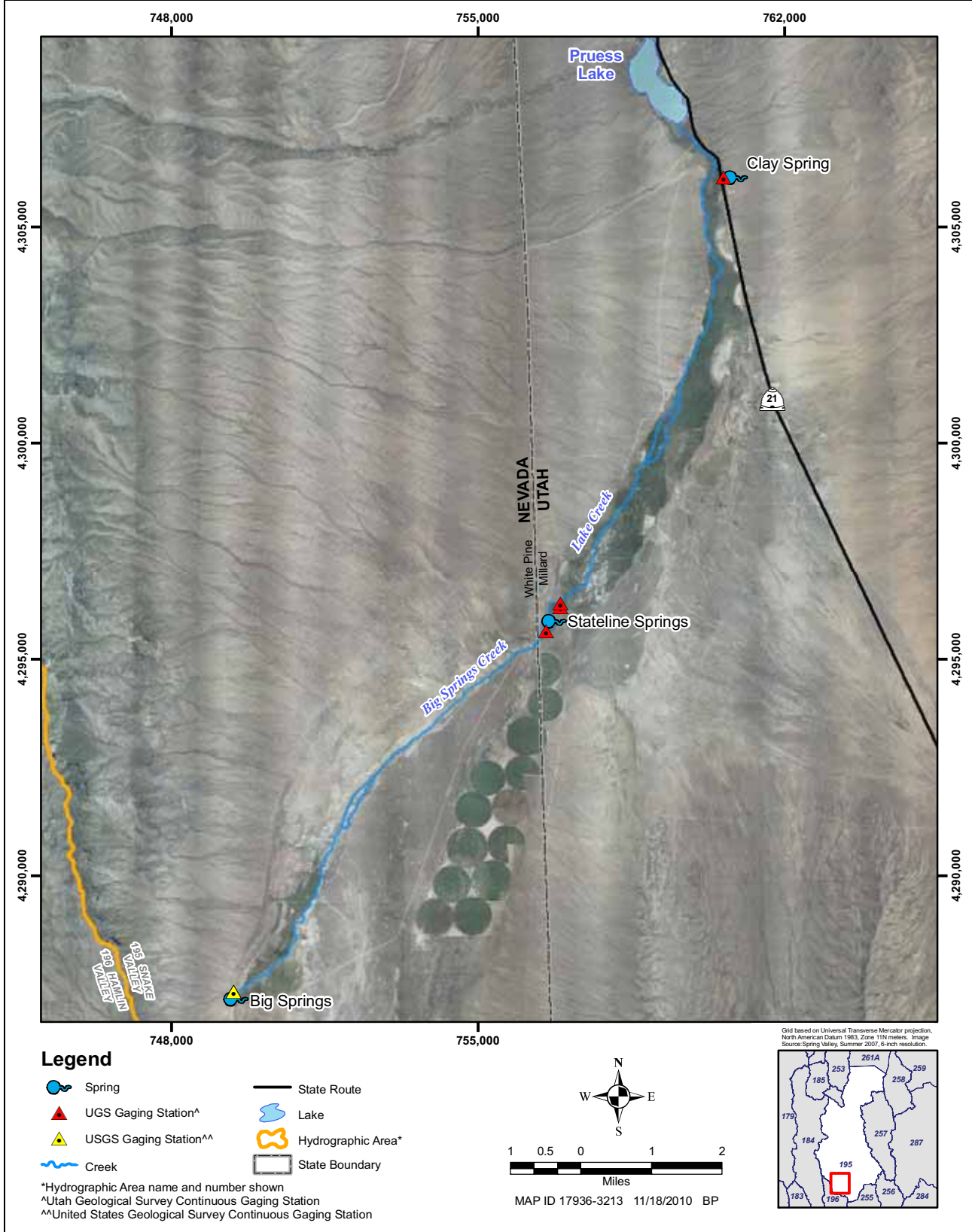


Figure 2-5
Big Springs Synoptic-Discharge Study Area, Snake Valley



The SV3M Plan states that SNWA shall work with the TRP to collect data to investigate the relationship between discharge at Big Springs and hydraulic head in the basin-fill and regional carbonate-rock aquifers. This task will be accomplished using hydrologic and water-chemistry data collected from Big Springs, existing and future SNWA monitor wells, and results from USGS and UGS studies of the area.

2.5 Precipitation-Station Network

The precipitation information presented in the annual report was expanded in 2012 to include data from other recently installed precipitation stations. Currently, the report relies upon thirty-three established precipitation stations located on the valley floor and margins of 9 hydrographic areas in eastern Nevada and western Utah to provide precipitation data for the region. Data for these stations were compiled from the Western Regional Climate Center (WRCC, 2017), the National Resource Conservation Service (NRCS) (USDA, 2017), the Nevada Division of Water Resources (NDWR, 2017), and the Nevada Climate-Ecological Assessment Network (NevCAN) project (WRCC, 2017). The precipitation stations are listed in [Table 2-6](#) and presented on [Figure 2-6](#).

Reported monthly data collected from the stations in CY 2016 are presented in [Appendix E](#). Reported CY 2016 precipitation data and period of record statistics for data collected by NDWR at high-altitude stations are also presented in [Appendix E](#).

Based on the high cost and low quality of the precipitation data collected by the USGS at the high altitude precipitation stations, monitoring of high-altitude precipitation stations by the USGS was discontinued in 2016.

2.6 Water-Chemistry Sampling Program

The Stipulation requires that three rounds of water-chemistry sampling at 40 locations be completed within 5 years of the effective date of the agreement, or September 8, 2006. As described in the 2013 SV3M Plan Status and Data Report (SNWA, 2014a), the sampling program has been modified and will continue once the five new Zone monitor wells have been installed. A copy of the May 2010 TRP consensus agreement developed in consultation with NSE and approved by the EC is included in the 2014 SV3M Plan and Status Data Report (SNWA, 2015a) and on the TRP data exchange website.

2.7 Reporting

A data-exchange web site accessible by the NSE, EC, TRP, and BWG members was created in April 2008. The data-exchange web site is used to disseminate SV3M Plan monitoring data to the TRP within 90 days of collection. Data is also be submitted directly to the NSE on a quarterly basis in electronic format.

2.8 Proposed Schedule of Groundwater Withdrawals

No groundwater production is scheduled until the project is authorized and constructed.

Table 2-6
High-Altitude and Regional Precipitation Monitoring Station Locations
 (Page 1 of 2)

| Source | Station Number | Station Name | Location ^a | | Elevation ^b (ft amsl) | Physiography | State | Collection Method | Collection Equipment ^c | Owner |
|--------|------------------------|---------------------|-----------------------|-----------------|-------------------------------------|---------------------------------|-------|-------------------|-----------------------------------|--------------|
| | | | UTM Northing (m) | UTM Easting (m) | | | | | | |
| NDWR | RP1790101 | Schellborne | 4,408,811 | 701,240 | 7,580 | Schell Creek Range | NV | Physical | BG | NDWR |
| NDWR | RP1790102 | Connors | 4,323,531 | 703,651 | 7,740 | Schell Creek Range | NV | Physical | BG | NDWR |
| NDWR | RP1830101 | Mount Wilson | 4,254,245 | 731,613 | 7,370 | Wilson Creek Range | NV | Physical | BG | NDWR |
| WRCC | RP1790201 | Lages | 4,437,512 | 703,405 | 5,960 | Steptoe Valley | NV | Continuous | WRG | Unknown |
| WRCC | RP1790202 | McGill | 4,365,043 | 691,693 | 6,270 | Duck Creek Range Alluvial Fan | NV | Continuous | Unknown | Unknown |
| WRCC | RP1790203 | Ely WBO | 4,351,755 | 685,692 | 6,262 | Steptoe Valley | NV | Continuous | Unknown | Unknown |
| WRCC | RP1940201 | Cedar Pass | 4,404,623 | 742,797 | 7,185 | Deep Creek Range | NV | Continuous | TB | BLM |
| WRCC | RP1950201 | Callao | 4,421,802 | 781,034 | 4,342 | Snake Valley | UT | Continuous | Unknown | Unknown |
| WRCC | RP1950202 | Partoun | 4,391,420 | 767,275 | 4,780 | Snake Valley | UT | Continuous | Unknown | Unknown |
| WRCC | RP1950203 | Eskdale | 4,333,158 | 763,441 | 4,980 | Snake Valley | UT | Continuous | Unknown | Unknown |
| WRCC | RP1950204 | Mather | 4,322,845 | 736,146 | 9,268 | Snake Range | NV | Continuous | TB | NPS |
| WRCC | RP1950205 | Great Basin NP | 4,321,069 | 740,678 | 6,850 | Snake Range | NV | Continuous | WRG | Unknown |
| WRCC | RP1950206 ^d | Baker Flat | 4,320,676 | 740,955 | 6,840 | Snake Range | NV | Continuous | TB | NPS |
| WRCC | RP2530201 | Clifton Flat | 4,444,924 | 766,286 | 6,384 | Deep Creek Range | UT | Continuous | TB | BLM |
| WRCC | RP2530202 | Ibapah | 4,436,297 | 756,954 | 5,279 | Deep Creek Valley | UT | Continuous | Unknown | Unknown |
| WRCC | RP2570201 | Tule Valley-RAWS | 4,361,854 | 811,546 | 5,200 | Middle Range Alluvial Fan | UT | Continuous | TB | BLM |
| WRCC | RP2580201 ^d | Fish Springs Refuge | 4,416,211 | 808,238 | 4,357 | Fish Springs Range Alluvial Fan | UT | Continuous | Unknown | Unknown |
| NRCS | RP1790301 | Bird Creek | 4,371,201 | 702,158 | 10,510 | Schell Creek Range | NV | Continuous | PXD | NRCS |
| NRCS | RP1790302 | Berry Creek | 4,354,627 | 705,457 | 9,100 | Schell Creek Range | NV | Continuous | PXD | NRCS |
| NRCS | RP1840301 | Kalamazoo | 4,380,489 | 703,349 | 7,965 | Schell Creek Range | NV | Continuous | PXD | NRCS |
| NRCS | RP1840302 | Cave Mountain | 4,337,978 | 705,904 | 7,900 | Schell Creek Range | NV | Continuous | PXD | NRCS |
| NRCS | RP1840303 | Wheeler Peak | 4,322,052 | 732,318 | 10,147 | Snake Range | NV | Continuous | PXD | NRCS |
| NRCS | RP2530301 | Goshute | 4,430,959 | 756,137 | 5,470 | Deep Creek Valley | UT | Continuous | TB | NRCS |
| NRCS | RP2550301 | Hals Canyon | 4,276,291 | 783,074 | 5,250 | Pine Valley | UT | Continuous | TB | NRCS |
| NRCS | RP2570301 | Tule Valley-SCAN | 4,349,385 | 805,536 | 4,583 | Tule Valley | UT | Continuous | TB | NRCS |
| NevCAN | RP1840501 | Subalpine (west) | 4,309,801 | 733,354 | 11,005 | Snake Range | NV | Continuous | WRG | DRI/UNLV/UNR |
| NevCAN | RP1840502 | Montane (west) | 4,307,955 | 731,455 | 9,250 | Snake Range | NV | Continuous | WRG | DRI/UNLV/UNR |

Table 2-6
High-Altitude and Regional Precipitation Monitoring Station Locations
 (Page 2 of 2)

| Source | Station Number | Station Name | Location ^a | | Elevation ^b (ft amsl) | Physiography | State | Collection Method | Collection Equipment ^c | Owner |
|--------|----------------|--------------------------|-----------------------|-----------------|-------------------------------------|---------------|-------|-------------------|-----------------------------------|--------------|
| | | | UTM Northing (m) | UTM Easting (m) | | | | | | |
| NevCAN | RP1840503 | Pinyon-Juniper (west) | 4,308,155 | 729,833 | 5,000 | Snake Range | NV | Continuous | WRG | DRI/UNLV/UNR |
| NevCAN | RP1840504 | Sagebrush (west) | 4,311,711 | 724,716 | 5,880 | Spring Valley | NV | Continuous | WRG | DRI/UNLV/UNR |
| NevCAN | RP1840505 | Salt Desert Shrub (west) | 4,324,658 | 717,682 | 5,786 | Spring Valley | NV | Continuous | WRG | DRI/UNLV/UNR |
| NevCAN | RP1950501 | Subalpine (east) | 4,321,331 | 732,965 | 10,108 | Snake Range | NV | Continuous | WRG | DRI/UNLV/UNR |
| NevCAN | RP1950502 | Sagebrush (east) | 4,322,852 | 744,451 | 6,035 | Snake Valley | NV | Continuous | WRG | DRI/UNLV/UNR |
| NevCAN | RP1950503 | Salt Desert (east) | 4,325,056 | 754,589 | 5,000 | Snake Valley | NV | Continuous | WRG | DRI/UNLV/UNR |

^aAll coordinates are Universal Transverse Mercator, North American Datum, 1983, Zone 11.

^bElevations are North American Vertical Datum of 1988 (NAVD88).

^cCollection Equipment: BG = Bulk storage gage; TB = Tipping Bucket; WRG = Weighing Rain Gage; PXD = Pressure Transducer

^dNo data collected during the 2016 calendar year.



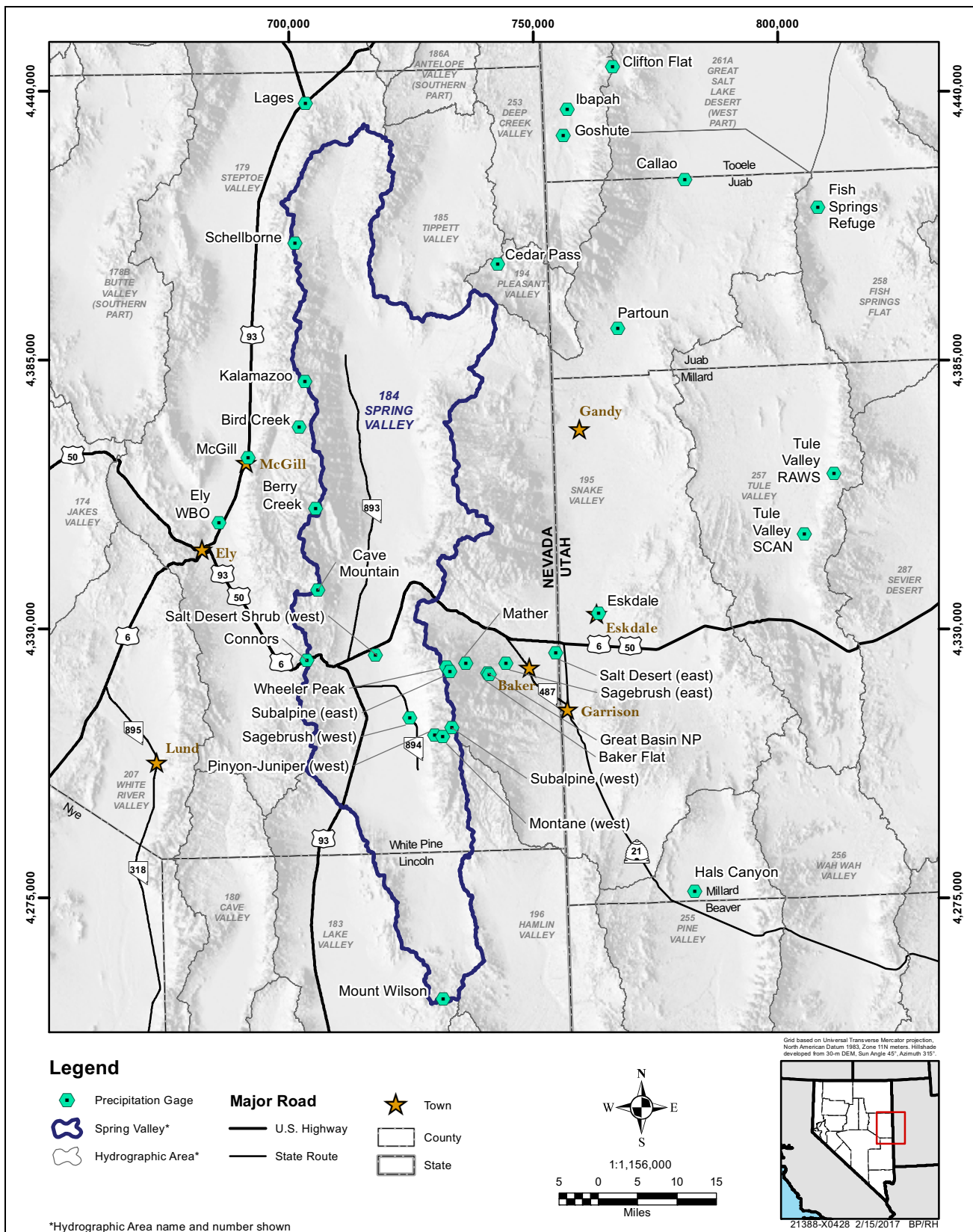


Figure 2-6
Precipitation Station Locations



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3.0 ANTICIPATED 2017 SNWA SV3M PLAN ACTIVITIES

SNWA will continue to work with NSE and TRP participants to implement the SV3M Plan. Anticipated SV3M Plan activities in 2017 are summarized below.

- Continue to collect all required groundwater, surface-water, and precipitation data as specified in the SV3M Plan throughout 2017.
- Data will be submitted to NSE in an approved electronic format quarterly, and included in the annual data report to be submitted in March 2018.
- Data will be reported quarterly to the other TRP members through the SNWA data-exchange web site.
- Provide technical assistance to the BWG, as requested.



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Appendix A

SV3M Plan

Periodic Water-Level Data

Table A-1
SV3M Plan Periodic Water-Level Measurement Data
 (Page 1 of 5)

| Site Number | Station Local Number ^a | Well Depth (ft bgs) | Surface Elevation (ft amsl) | Water Level | | | |
|------------------------------|-----------------------------------|---------------------|-----------------------------|-------------|-------------------------|--------------------------|---------------------------------|
| | | | | Date | Depth to Water (ft bgs) | Well Status ^b | Measurement Method ^c |
| 383023114115302 ^d | 196 N08 E69 35DC 2 | 435 | 5,837.67 | 1/12/2016 | 178.67 | S | T |
| | | | | 4/5/2016 | 179.18 | S | T |
| | | | | 7/12/2016 | 178.72 | S | T |
| | | | | 10/5/2016 | 178.37 | S | T |
| 383325114134901 | 196 N08 E69 15B 1 | 110 | 5,729.98 | 1/12/2016 | 73.15 | S | T |
| | | | | 4/5/2016 | 73.28 | S | T |
| | | | | 7/12/2016 | 73.65 | S | T |
| | | | | 10/5/2016 | 73.73 | S | T |
| 383351114180201 | 184 N08 E68 14A 1 | 495 | 6,184.22 | 1/12/2016 | 406.24 | S | T |
| | | | | 4/5/2016 | 406.47 | S | T |
| | | | | 7/12/2016 | 406.29 | S | T |
| | | | | 10/5/2016 | 406.30 | S | T |
| 383704114225001 ^d | 184 N09 E68 30AAAB1 | 679 | 6,002.52 | 1/12/2016 | 224.90 | S | T |
| | | | | 4/5/2016 | 224.95 | S | T |
| | | | | 7/12/2016 | 224.80 | S | T |
| | | | | 10/5/2016 | 224.83 | S | T |
| 384112114091101 ^d | 196 N09HE70 32BBA 1 | 700 | 6,019.53 | 1/12/2016 | 360.49 | S | T |
| | | | | 4/5/2016 | 360.88 | S | T |
| | | | | 7/12/2016 | 359.59 | S | T |
| | | | | 10/5/2016 | 359.57 | S | T |
| 384227114082701 ^d | 195 N10 E70 28CBCB1 | 460 | 5,815.18 | 1/12/2016 | 229.28 | S | T |
| | | | | 4/5/2016 | 229.43 | S | T |
| | | | | 7/12/2016 | 229.34 | S | T |
| | | | | 10/5/2016 | 229.26 | S | T |
| 384310114261401 | 184 N10 E67 22AA 1 | 100 | 5,853.54 | 1/12/2016 | 66.20 | S | T |
| | | | | 4/5/2016 | 66.34 | S | T |
| | | | | 7/12/2016 | 66.34 | S | T |
| | | | | 10/5/2016 | 66.42 | S | T |
| 384745114224401 ^d | 184 N11 E68 19DCDC1 | 200 | 5,900.18 | 1/12/2016 | 101.54 | S | T |
| | | | | 4/5/2016 | 101.67 | S | T |
| | | | | 7/12/2016 | 101.79 | S | T |
| | | | | 10/5/2016 | 101.91 | S | T |
| 384831114314301 ^d | 184 N11 E66 23AB 1 | 102 | 5,842.94 | 1/13/2016 | 47.95 | S | T |
| | | | | 4/5/2016 | 48.06 | S | T |
| | | | | 7/12/2016 | 48.08 | S | T |
| | | | | 10/5/2016 | 48.19 | S | T |



Table A-1
SV3M Plan Periodic Water-Level Measurement Data
 (Page 2 of 5)

| Site Number | Station Local Number ^a | Well Depth (ft bgs) | Surface Elevation (ft amsl) | Water Level | | | |
|------------------------------|-----------------------------------|---------------------|-----------------------------|------------------------|-------------------------|--------------------------|---------------------------------|
| | | | | Date | Depth to Water (ft bgs) | Well Status ^b | Measurement Method ^c |
| 385636114265501 | 184 N13 E67 33DDA 1 | --- | 5,769.73 | 1/13/2016 | 10.22 | S | T |
| | | | | 4/5/2016 | 9.62 | S | T |
| | | | | 7/12/2016 | 10.53 | S | T |
| | | | | 10/6/2016 | 10.92 | S | T |
| 390352114305401 | 184 N14 E66 24BDDD1 | 160 | 5,846.04 | 1/12/2016 ^e | --- | --- | --- |
| | | | | 4/5/2016 | 38.52 | S | T |
| | | | | 7/13/2016 | 38.54 | S | T |
| | | | | 10/4/2016 | 38.72 | S | T |
| 390803114251001 ^d | 184 N15 E67 26CA 1 | 200 | 5,727.21 | 1/12/2016 | 40.62 | S | T |
| | | | | 4/5/2016 | 40.71 | S | T |
| | | | | 7/13/2016 | 40.72 | S | T |
| | | | | 10/4/2016 | 40.86 | S | T |
| 392703114230501 | 184 N18 E67 01CCAA1 | 42 | 5,587.78 | 1/12/2016 | 34.73 | S | T |
| | | | | 4/5/2016 | 34.97 | S | T |
| | | | | 7/12/2016 | 34.68 | S | T |
| | | | | 10/4/2016 | 35.24 | S | T |
| 393442114231801 | 184 N20 E67 26ABBD1 | 130 | 5,708.77 | 1/12/2016 | 118.76 | S | T |
| | | | | 4/5/2016 | 124.79 | P | T |
| | | | | 7/12/2016 | 118.27 | S | T |
| | | | | 10/4/2016 | 118.90 | S | T |
| 184 N12 E66 21CD 1 | 184 N12 E66 21DCCB1 | 631 | 6,370.31 | 1/13/2016 | 571.06 | S | T |
| | | | | 4/4/2016 | 571.55 | S | T |
| | | | | 7/12/2016 | 571.52 | S | T |
| | | | | 10/5/2016 | 571.51 | S | T |
| 184 N20 E66 13AB 1 | 184 N20 E66 13BADA1 | 296 | 5,774.93 | 1/13/2016 | 131.65 | S | T |
| | | | | 4/5/2016 | 131.43 | S | T |
| | | | | 7/12/2016 | 127.87 | S | T |
| | | | | 10/4/2016 | 129.58 | S | T |
| 184W101 | 184 N09 E68 11BDCA1 | 1,749 | 6,190.90 | 1/12/2016 | 488.27 | S | T |
| | | | | 4/5/2016 | 488.58 | S | T |
| | | | | 7/12/2016 | 488.23 | S | T |
| | | | | 10/5/2016 | 488.05 | S | T |
| 184W103 | 184 N11 E66 35CCCC2 | 1,017 | 5,899.06 | 1/13/2016 | 98.87 | S | T |
| | | | | 4/5/2016 | 99.03 | S | T |
| | | | | 7/12/2016 | 98.98 | S | T |
| | | | | 10/5/2016 | 99.04 | S | T |

Table A-1
SV3M Plan Periodic Water-Level Measurement Data
 (Page 3 of 5)

| Site Number | Station Local Number ^a | Well Depth (ft bgs) | Surface Elevation (ft amsl) | Water Level | | | |
|-----------------------------------|-----------------------------------|---------------------|-----------------------------|------------------------|-------------------------|--------------------------|---------------------------------|
| | | | | Date | Depth to Water (ft bgs) | Well Status ^b | Measurement Method ^c |
| 184W105 | 184 N12 E66 26BDAA1 | 1,135 | 6,007.30 | 1/13/2016 | 210.07 | S | T |
| | | | | 4/4/2016 | 210.12 | S | T |
| | | | | 7/12/2016 | 210.20 | S | T |
| | | | | 10/5/2016 | 210.21 | S | T |
| 184W502M ^d | 184 N09 E68 11BDBD1 | 1,799 | 6,189.72 | 1/12/2016 | 487.49 | S | T |
| | | | | 4/5/2016 | 487.70 | S | T |
| | | | | 7/12/2016 | 487.32 | S | T |
| | | | | 10/5/2016 | 487.14 | S | T |
| 184W504M ^d | 184 N11 E66 35CCCC1 | 1,020 | 5,900.11 | 1/13/2016 | 101.03 | S | T |
| | | | | 4/5/2016 | 101.18 | S | T |
| | | | | 7/12/2016 | 101.15 | S | T |
| | | | | 10/5/2016 | 101.24 | S | T |
| 184W506M ^d | 184 N12 E66 26BADC1 | 1,140 | 6,014.04 | 1/13/2016 | 216.73 | S | T |
| | | | | 4/4/2016 | 216.75 | S | T |
| | | | | 7/12/2016 | 216.89 | S | T |
| | | | | 10/5/2016 | 216.87 | S | T |
| 184W508M ^d | 184 N09 E67 11DBCD1 | 1,160 | 6,056.19 | 1/12/2016 | 276.87 | S | T |
| | | | | 4/5/2016 | 276.94 | S | T |
| | | | | 7/12/2016 | 276.75 | S | T |
| | | | | 10/5/2016 | 276.73 | S | T |
| Robison Crooked Well ^d | 184 N19 E66 11B 1 | 400 | 5,698.43 | 1/12/2016 | 44.55 | S | T |
| | | | | 4/5/2016 | 44.51 | S | T |
| | | | | 7/12/2016 | 41.87 | S | T |
| | | | | 10/4/2016 | 43.15 | S | T |
| SPR7005M ^d | 184 N14 E66 09ABCA1 | 1,404 | 6,395.68 | 1/12/2016 ^e | --- | --- | --- |
| | | | | 4/5/2016 | 498.00 | S | T |
| | | | | 7/13/2016 | 497.00 | S | T |
| | | | | 10/4/2016 | 496.84 | S | T |
| SPR7005X | 184 N14 E66 09ABCA2 | 1,350 | 6,397.56 | 1/12/2016 ^e | --- | --- | --- |
| | | | | 4/5/2016 | 499.83 | S | T |
| | | | | 7/13/2016 | 498.89 | S | T |
| | | | | 10/4/2016 | 498.73 | S | T |
| SPR7006M ^d | 184 N14 E67 14DDAC1 | 1,700 | 6,525.18 | 1/13/2016 ^e | --- | --- | --- |
| | | | | 2/17/2016 | 774.20 | S | T |
| | | | | 4/6/2016 | 774.46 | S | T |
| | | | | 4/25/2016 | 774.22 | S | T |
| | | | | 7/12/2016 | 774.02 | S | T |
| 10/4/2016 | 774.70 | S | T | | | | |



Table A-1
SV3M Plan Periodic Water-Level Measurement Data
 (Page 4 of 5)

| Site Number | Station Local Number ^a | Well Depth (ft bgs) | Surface Elevation (ft amsl) | Water Level | | | |
|------------------------|-----------------------------------|---------------------|-----------------------------|-------------|-------------------------|--------------------------|---------------------------------|
| | | | | Date | Depth to Water (ft bgs) | Well Status ^b | Measurement Method ^c |
| SPR7007M ^d | 184 N11 E68 05BCBC1 | 1,020 | 6,017.73 | 1/12/2016 | 160.47 | S | T |
| | | | | 4/5/2016 | 161.91 | S | T |
| | | | | 7/12/2016 | 148.80 | S | T |
| | | | | 10/6/2016 | 151.07 | S | T |
| SPR7007X | 184 N11 E68 05BCBC2 | 1,020 | 6,017.53 | 1/12/2016 | 160.33 | S | T |
| | | | | 4/5/2016 | 161.71 | S | T |
| | | | | 7/12/2016 | 148.68 | S | T |
| | | | | 10/6/2016 | 150.92 | S | T |
| SPR7008M ^d | 184 N15 E67 26CDAB1 | 946 | 5,704.86 | 1/12/2016 | 14.88 | S | T |
| | | | | 4/5/2016 | 14.78 | S | T |
| | | | | 7/13/2016 | 14.99 | S | T |
| | | | | 10/4/2016 | 15.03 | S | T |
| SPR7008X | 184 N15 E67 26CADC1 | 960 | 5,702.99 | 1/12/2016 | 13.66 | S | T |
| | | | | 4/5/2016 | 13.54 | S | T |
| | | | | 7/13/2016 | 13.73 | S | T |
| | | | | 10/4/2016 | 13.81 | S | T |
| SPR7024M ^d | 184 N12 E67 01CCCD1 | 250 | 5,861.10 | 1/12/2016 | 28.81 | S | T |
| | | | | 3/9/2016 | 28.69 | S | T |
| | | | | 3/15/2016 | 28.71 | S | T |
| | | | | 4/5/2016 | 28.65 | S | T |
| | | | | 7/12/2016 | 29.66 | S | T |
| | | | | 8/2/2016 | 29.78 | S | T |
| | | | | 8/23/2016 | 29.96 | S | T |
| | | | | 9/8/2016 | 30.16 | S | T |
| | | | | 10/6/2016 | 30.46 | S | T |
| 10/18/2016 | 30.68 | S | T | | | | |
| SPR7024M2 ^d | 184 N12 E67 01CCCD2 | 699 | 5,863.08 | 1/12/2016 | 24.04 | S | T |
| | | | | 3/9/2016 | 23.41 | S | T |
| | | | | 3/15/2016 | 23.49 | S | T |
| | | | | 4/5/2016 | 23.33 | S | T |
| | | | | 7/12/2016 | 25.48 | S | T |
| | | | | 8/2/2016 | 25.84 | S | T |
| | | | | 8/22/2016 | 26.19 | S | T |
| | | | | 8/23/2016 | 26.87 | S | T |
| | | | | 9/8/2016 | 26.72 | S | T |
| 10/6/2016 | 24.81 | S | T | | | | |
| 10/18/2016 | 27.02 | S | T | | | | |

Table A-1
SV3M Plan Periodic Water-Level Measurement Data
 (Page 5 of 5)

| Site Number | Station Local Number ^a | Well Depth (ft bgs) | Surface Elevation (ft amsl) | Water Level | | | |
|-------------|-----------------------------------|---------------------|-----------------------------|------------------------|-------------------------|--------------------------|---------------------------------|
| | | | | Date | Depth to Water (ft bgs) | Well Status ^b | Measurement Method ^c |
| SPR7029M | 184 N16 E66 25DBCD1 | 260 | 5,876.83 | 1/12/2016 | 219.10 | S | T |
| | | | | 4/5/2016 ^e | --- | --- | --- |
| | | | | 7/12/2016 | 217.58 | S | T |
| | | | | 10/4/2016 | 219.57 | S | T |
| | | | | 10/19/2016 | 219.64 | S | T |
| SPR7029M2 | 184 N16 E66 25DBCA1 | 423 | 5,876.65 | 1/12/2016 ^e | --- | --- | --- |
| | | | | 4/5/2016 | 217.66 | S | T |
| | | | | 7/12/2016 | 217.26 | S | T |
| | | | | 10/4/2016 | 219.32 | S | T |
| SPR7030M | 184 N16 E67 32ABAB1 | 98 | 5,617.15 | 1/12/2016 ^e | --- | --- | --- |
| | | | | 4/5/2016 | -28.11 | S | G |
| | | | | 7/12/2016 | -28.18 | S | G |
| | | | | 10/4/2016 | -27.00 | S | G |
| SPR7030M2 | 184 N16 E67 32ABAB2 | 236 | 5,617.79 | 1/12/2016 ^e | --- | --- | --- |
| | | | | 4/5/2016 | -36.65 | S | G |
| | | | | 7/12/2016 | -37.31 | S | G |
| | | | | 10/4/2016 | -36.05 | S | G |

^aStation Local Numbers provided by the Nevada Department of Water Resources.

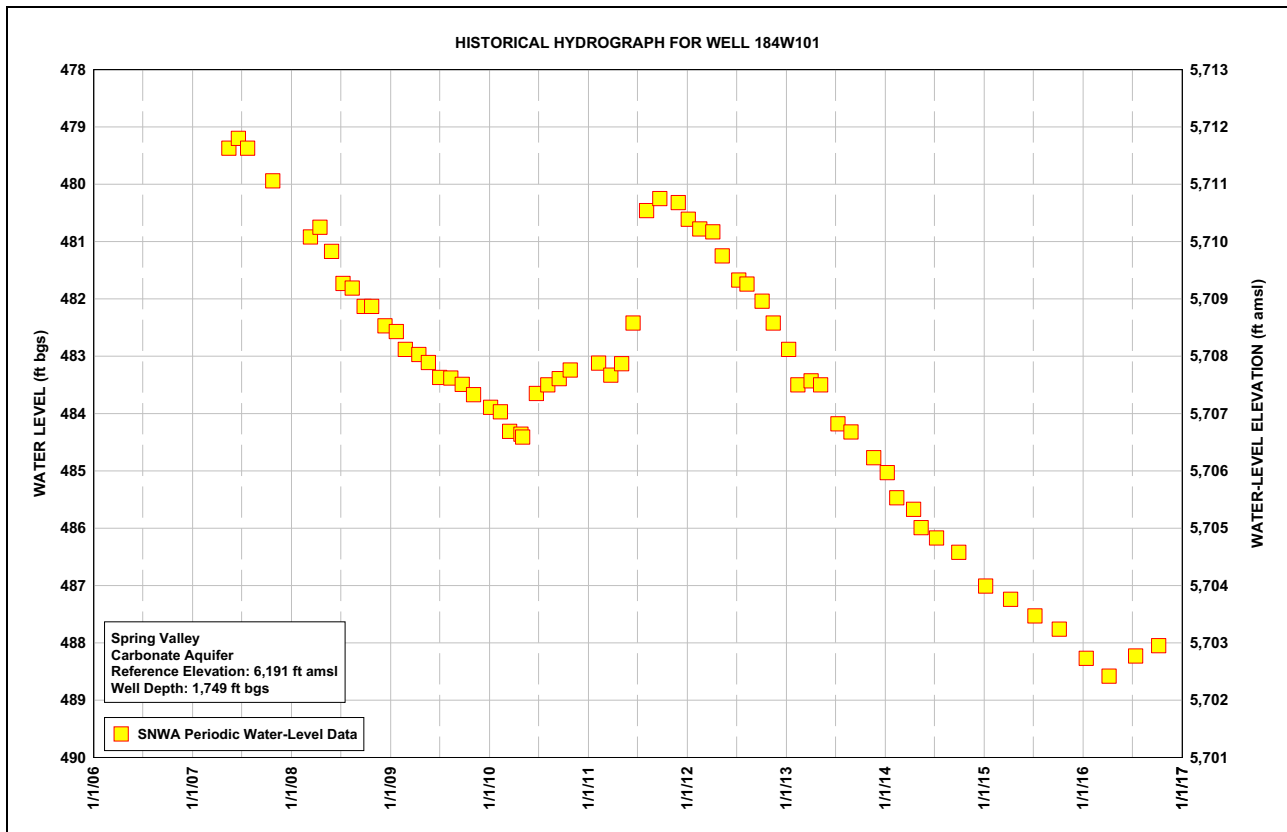
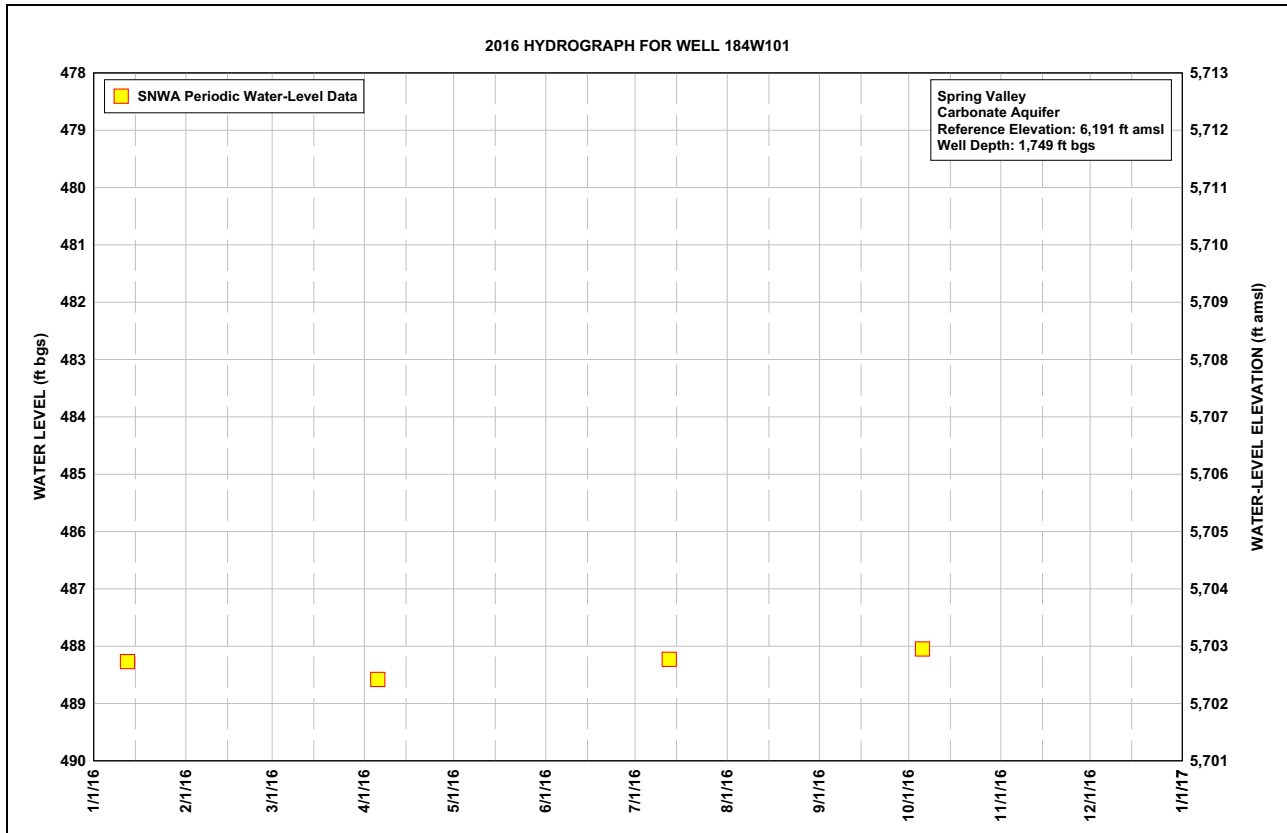
^bS = Static conditions, P = Pumping or recently pumping conditions, D = Dry

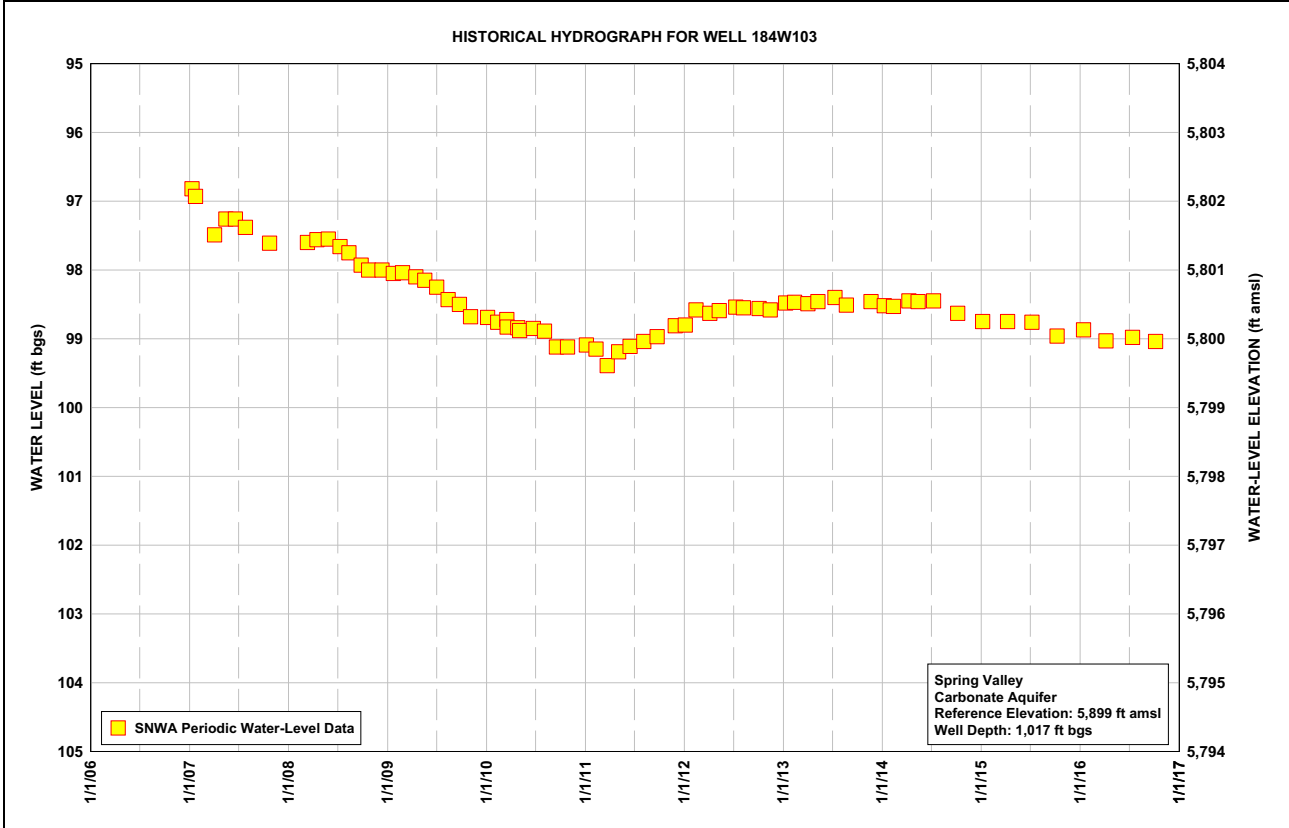
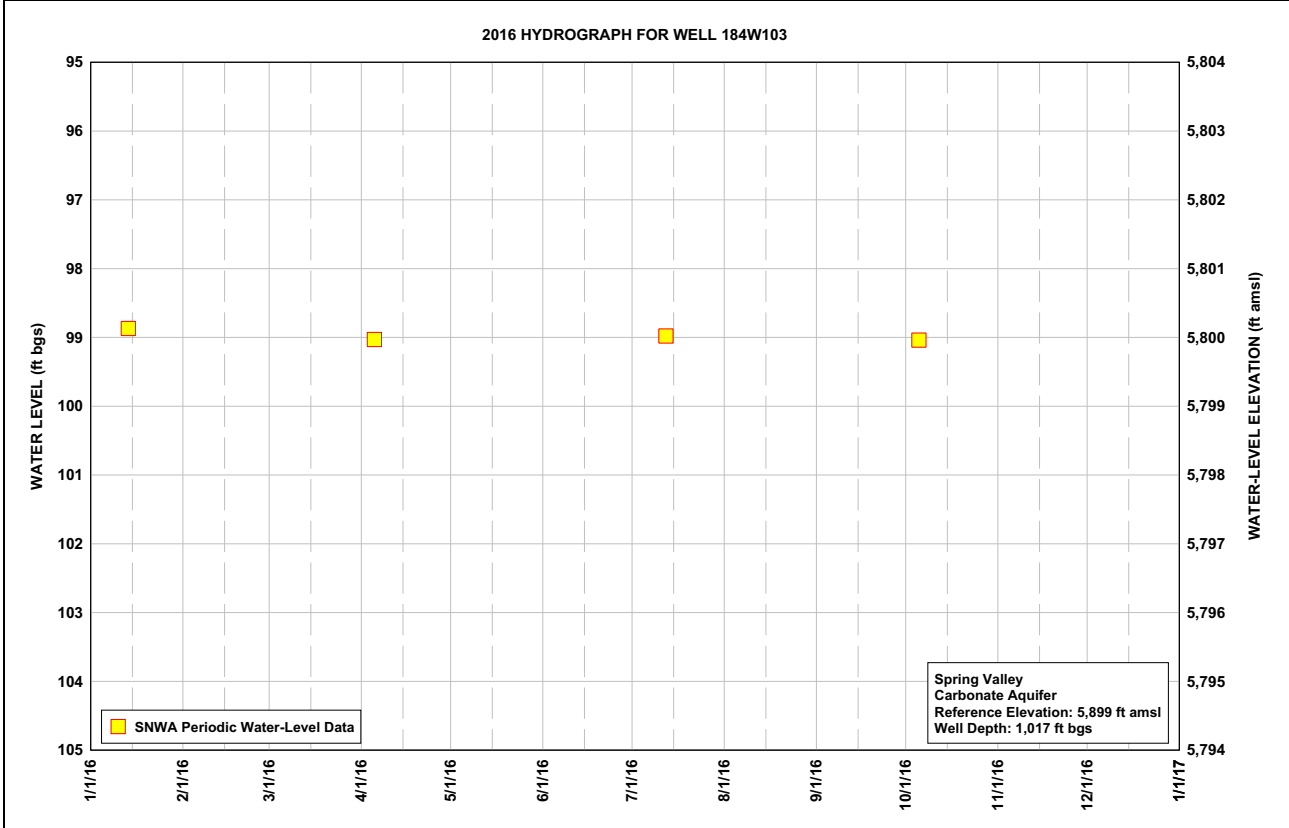
^cT = Electric tape measurement, S = Steel tape measurement, G = Pressure gage

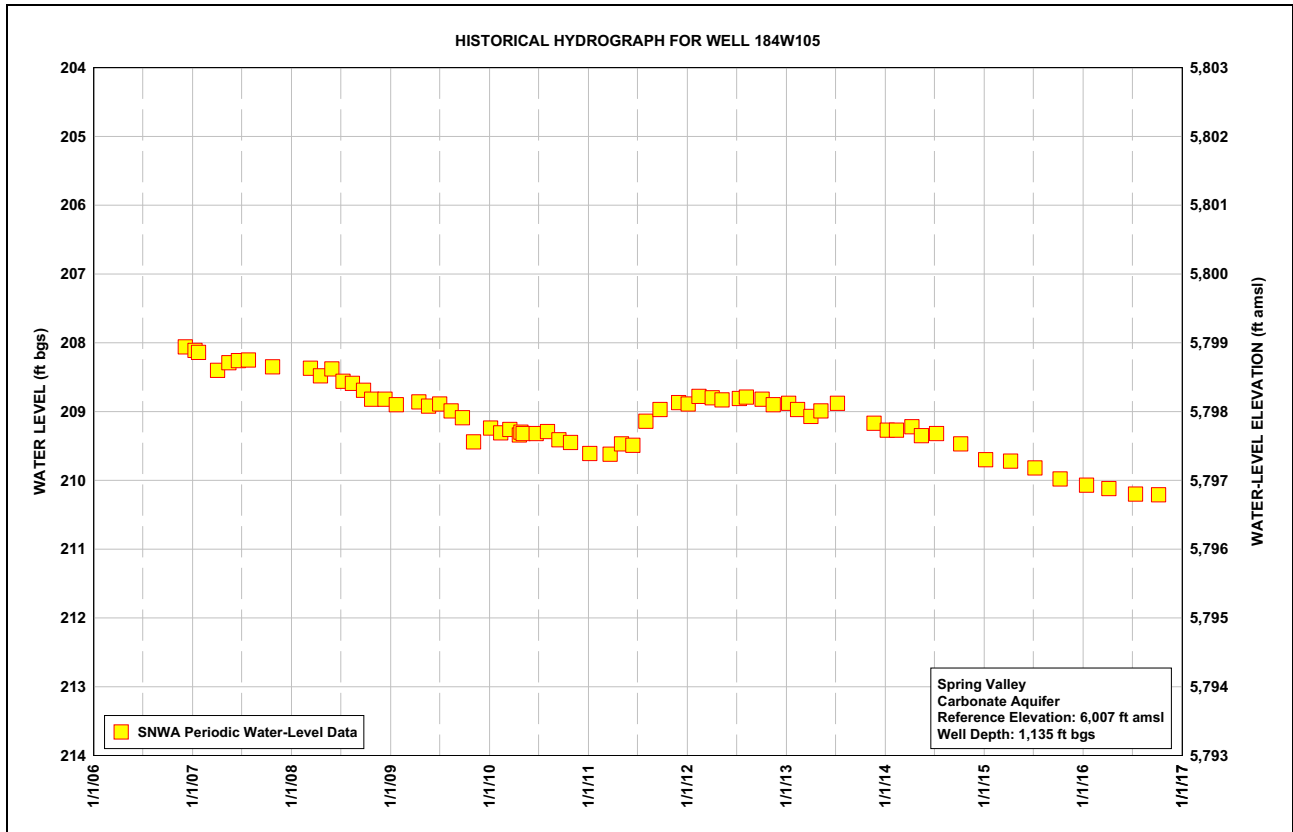
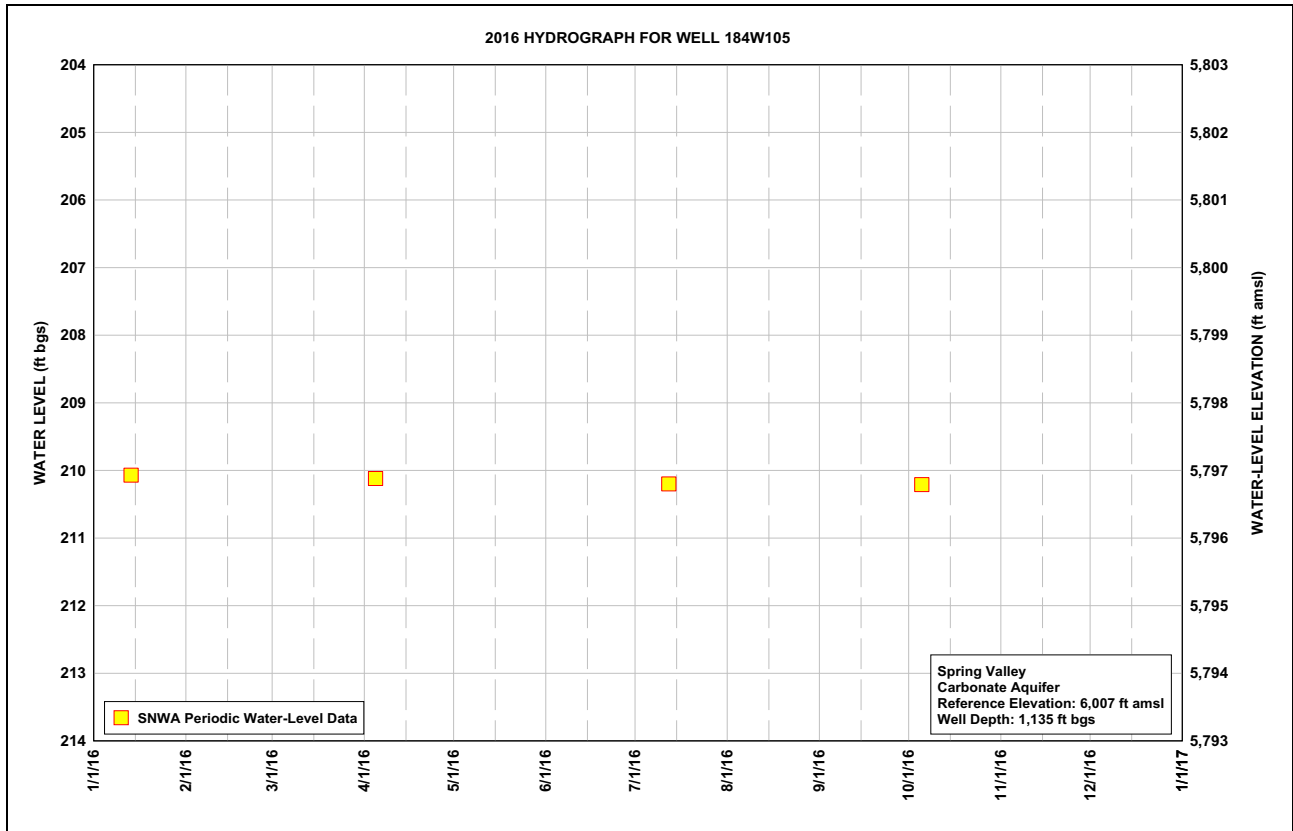
^dCurrent and historical hydrographs with periodic and continuous data are presented in [Appendix B](#).

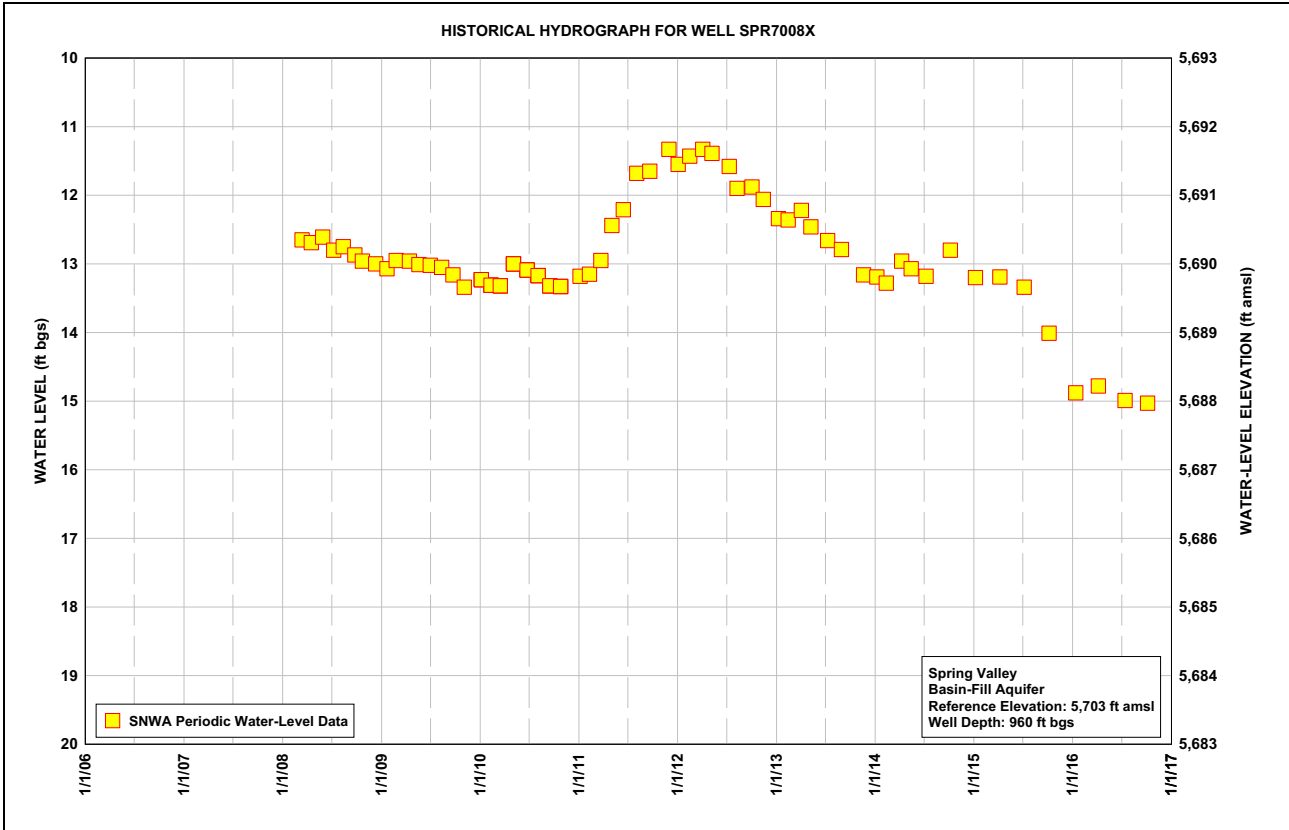
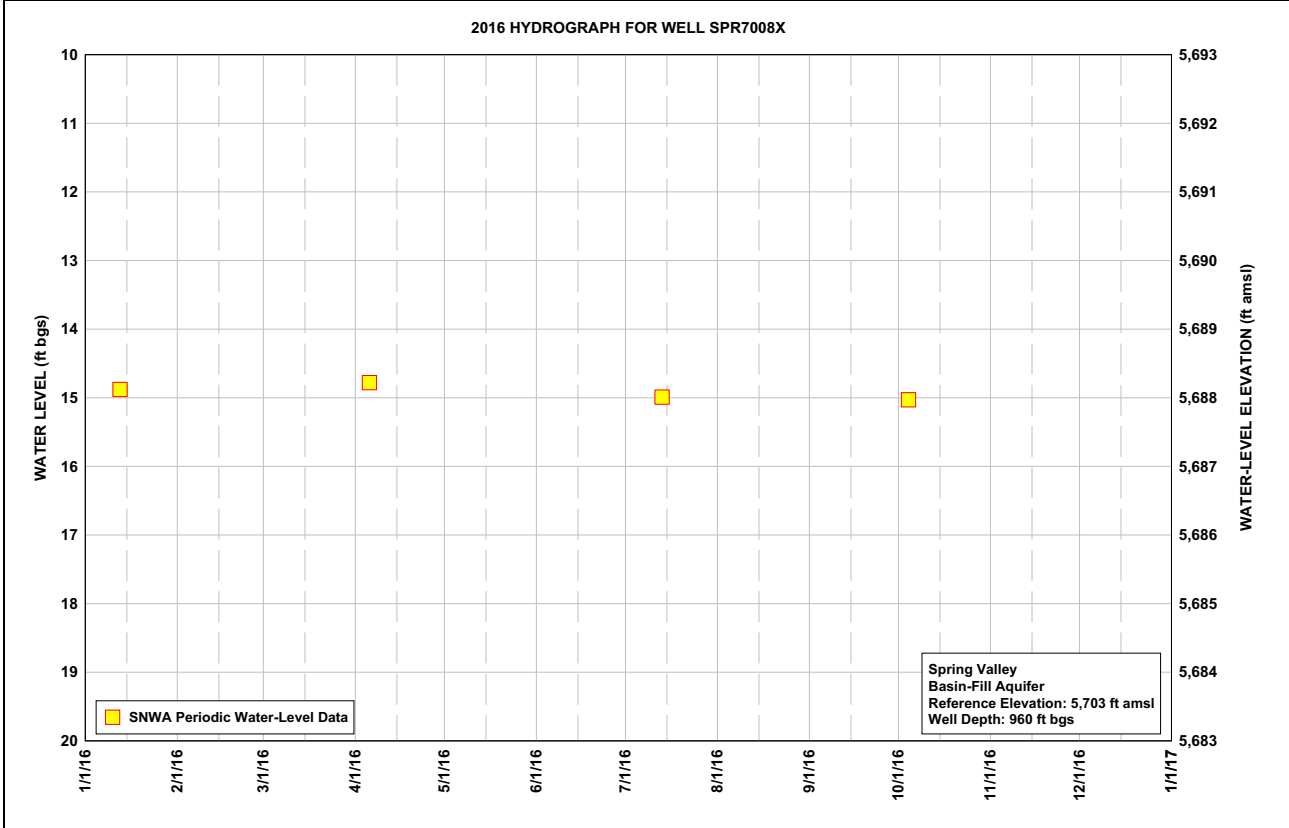
^eData unavailable.

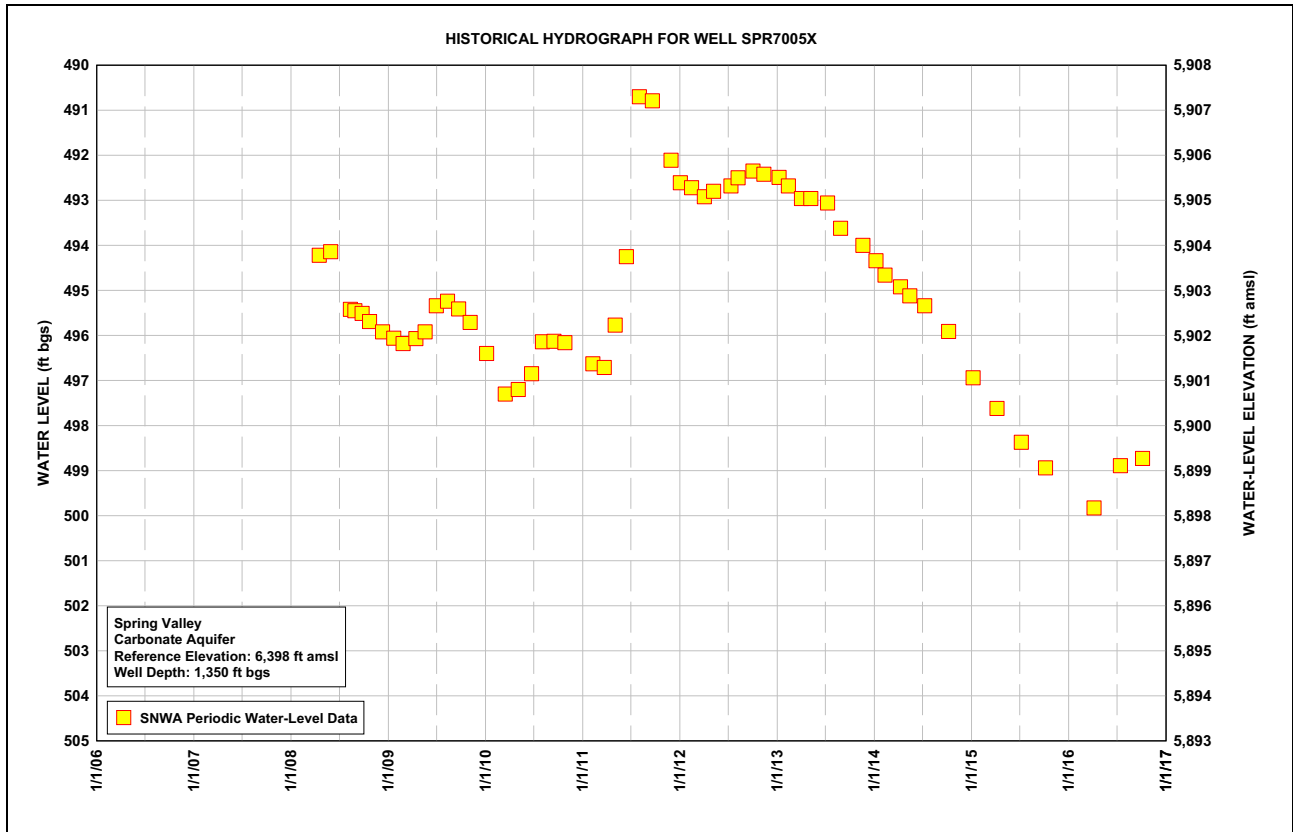
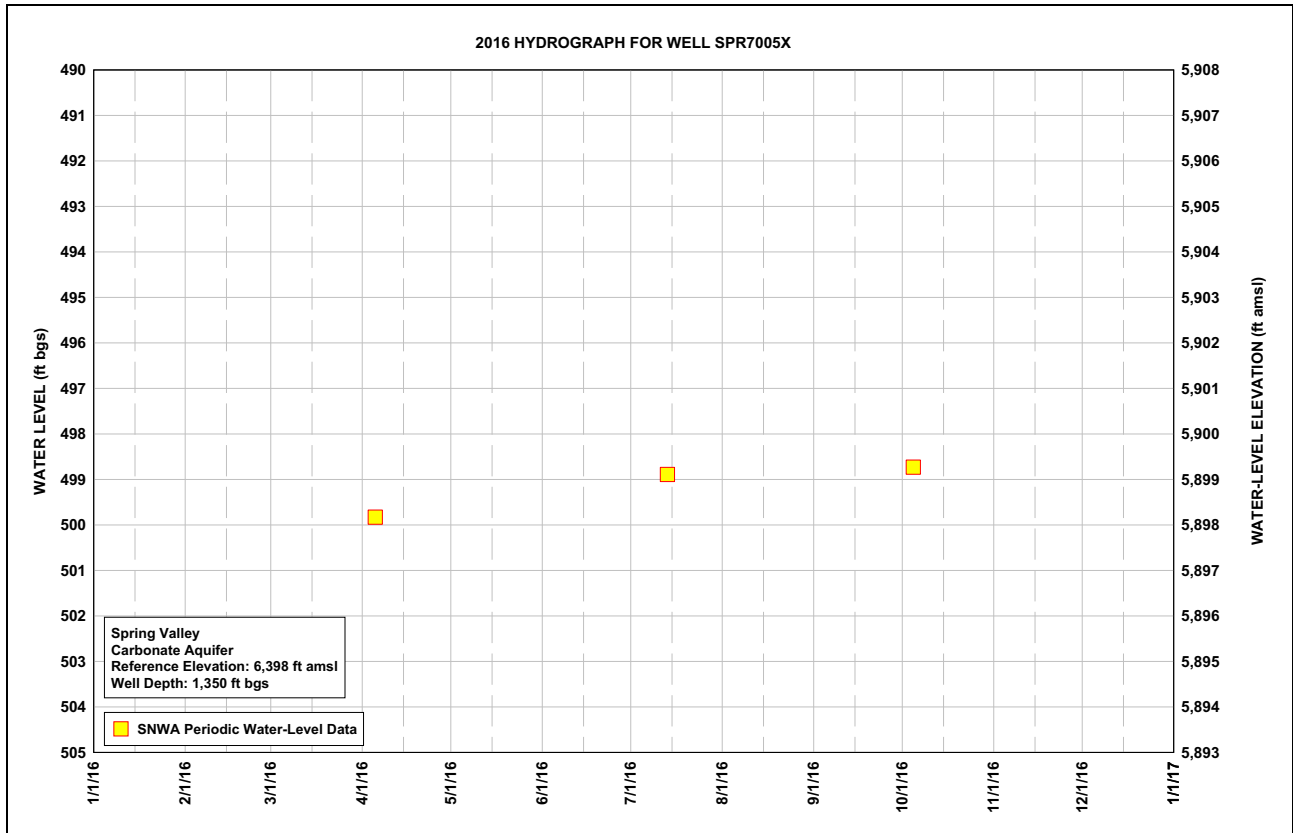
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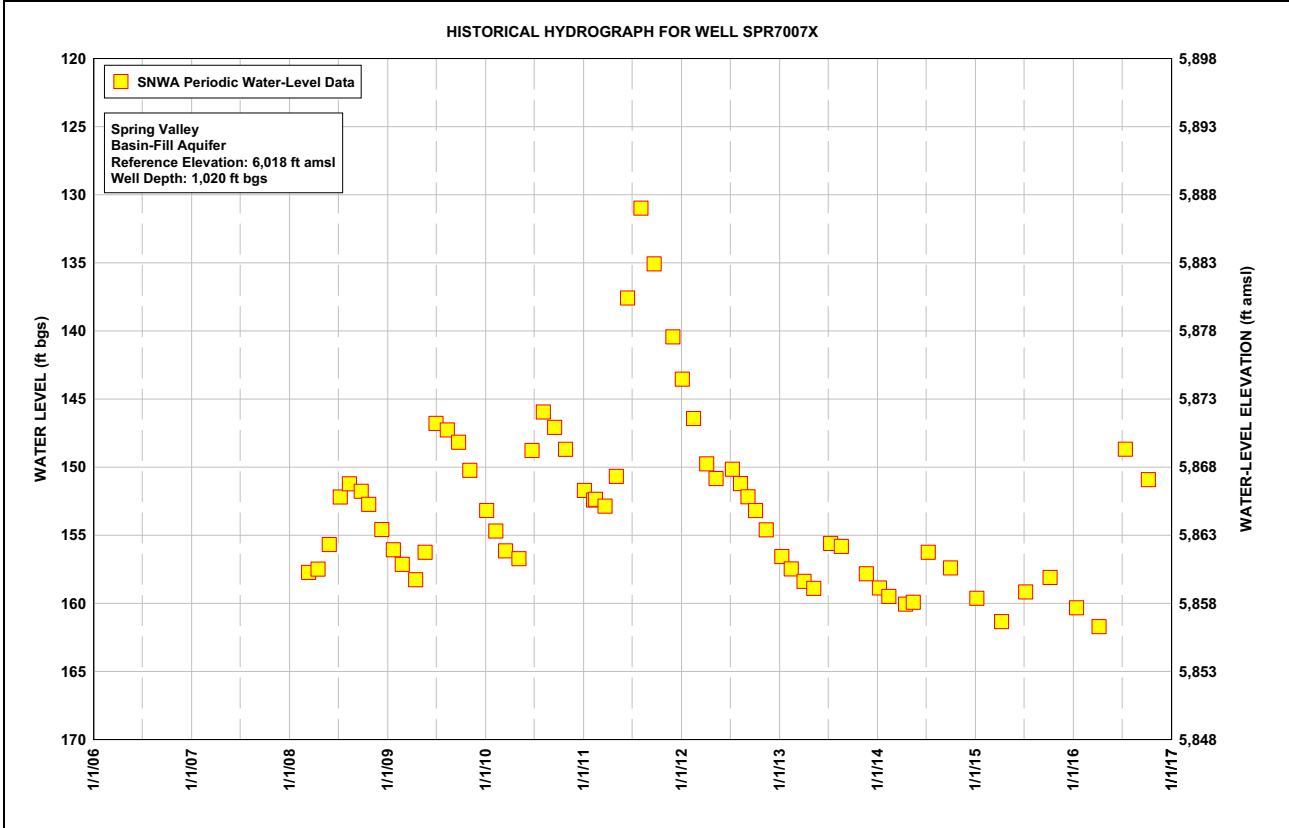
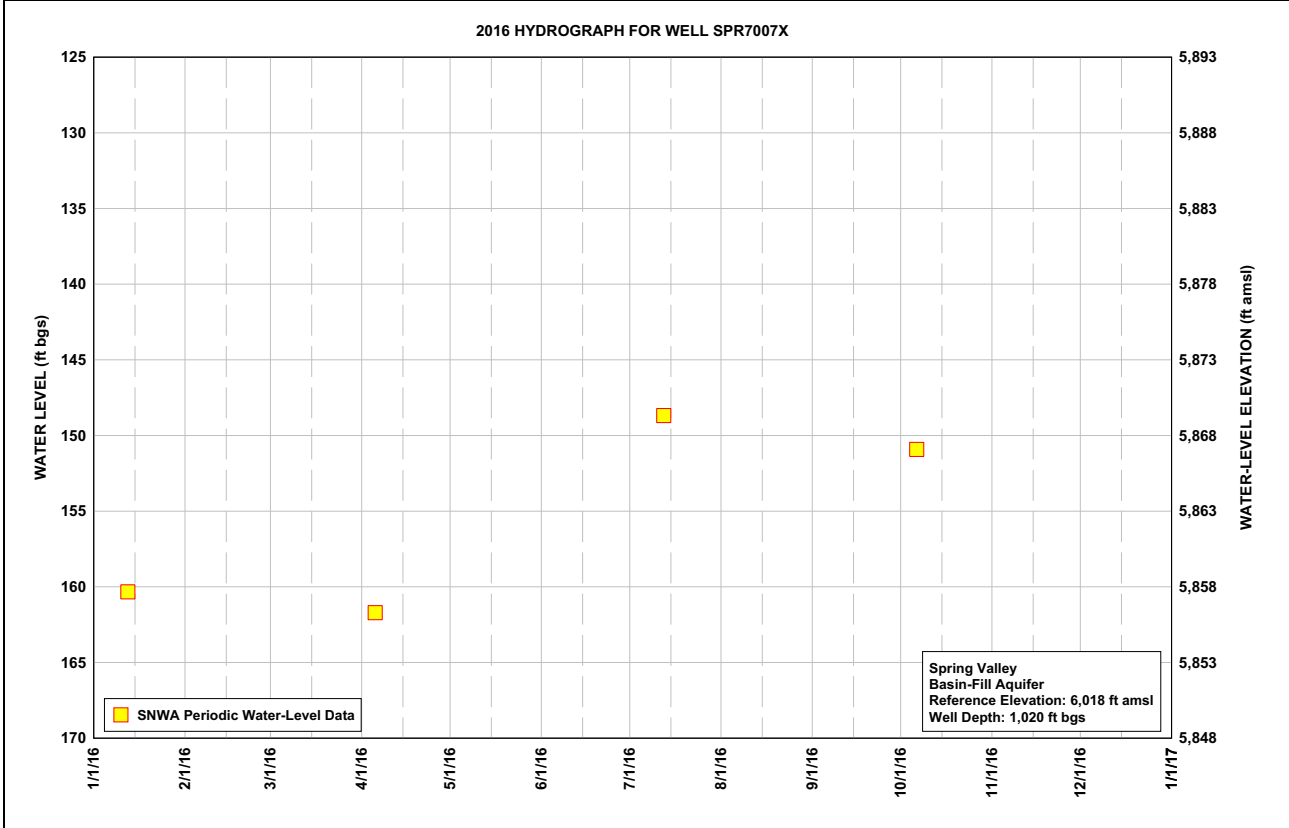


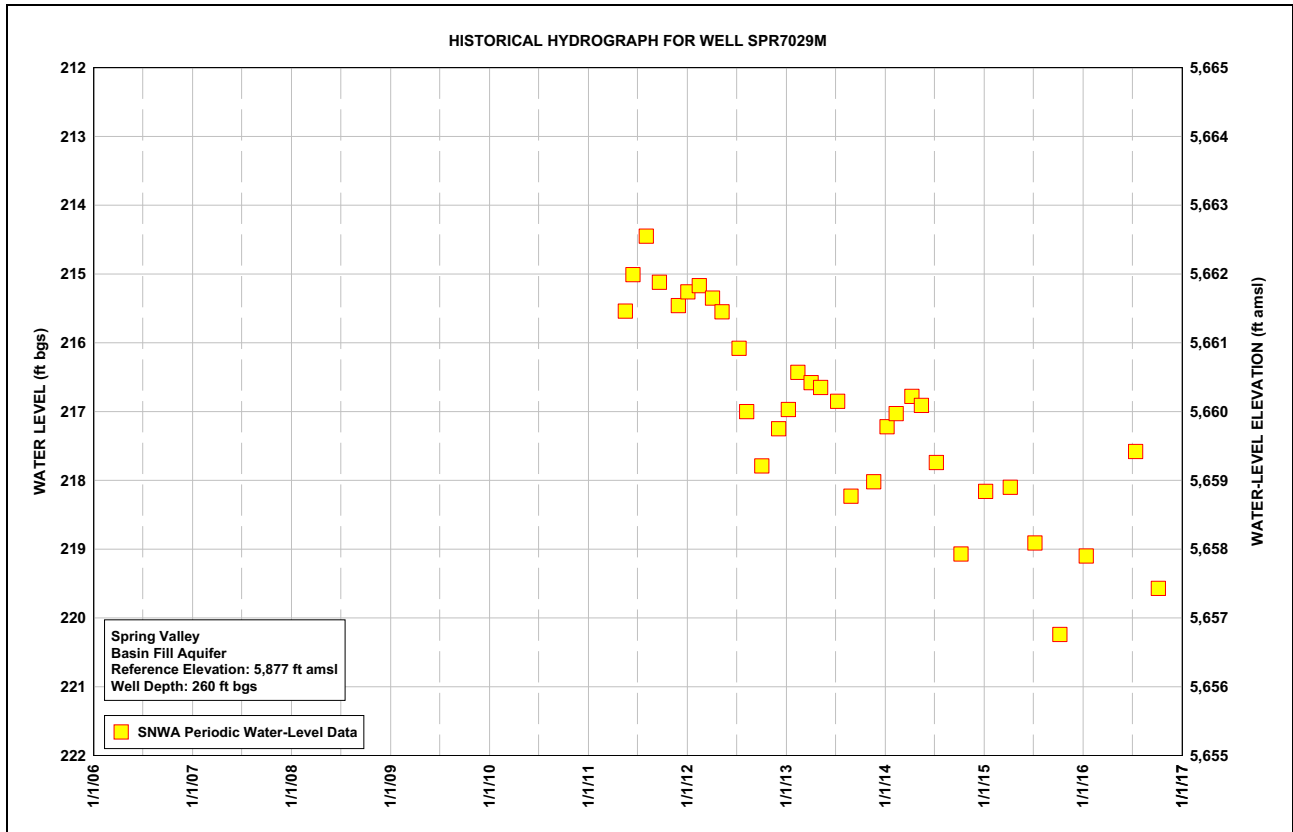
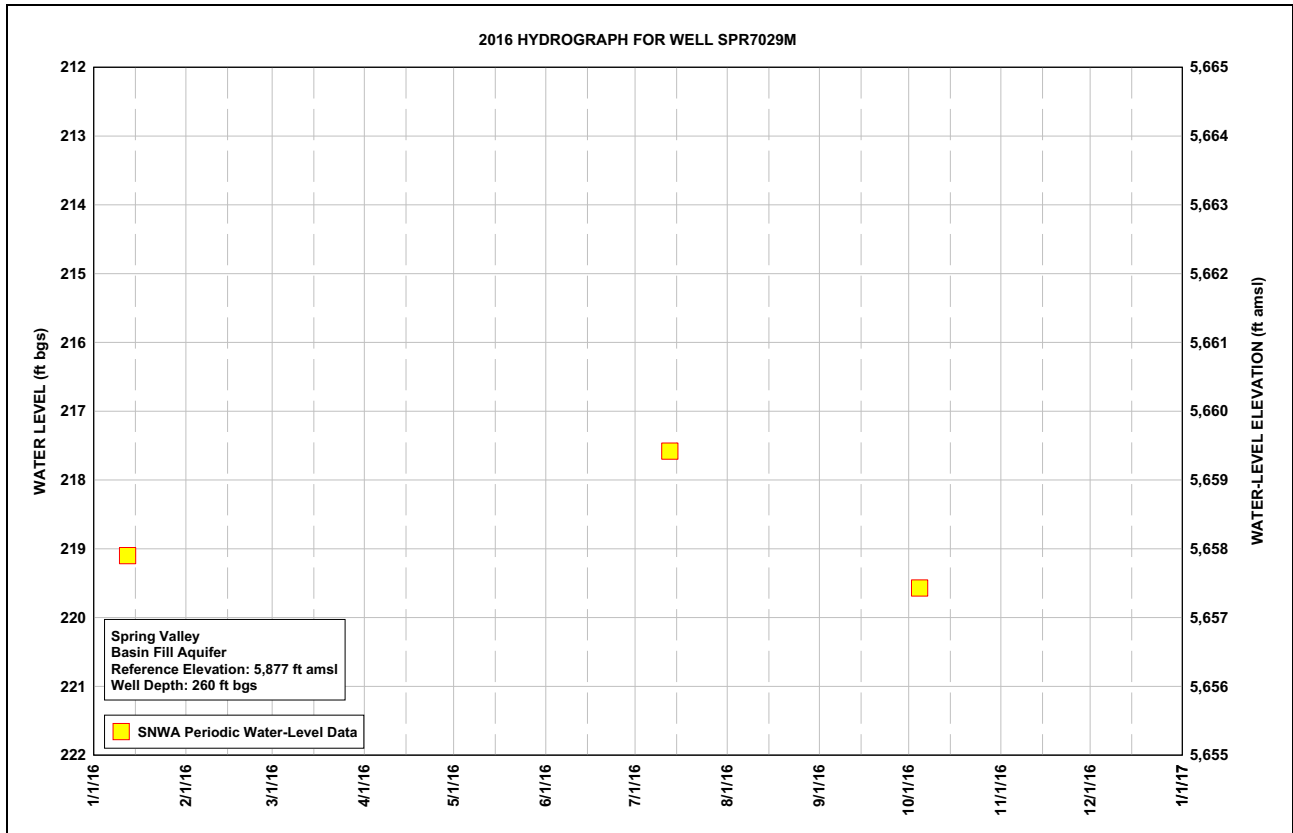


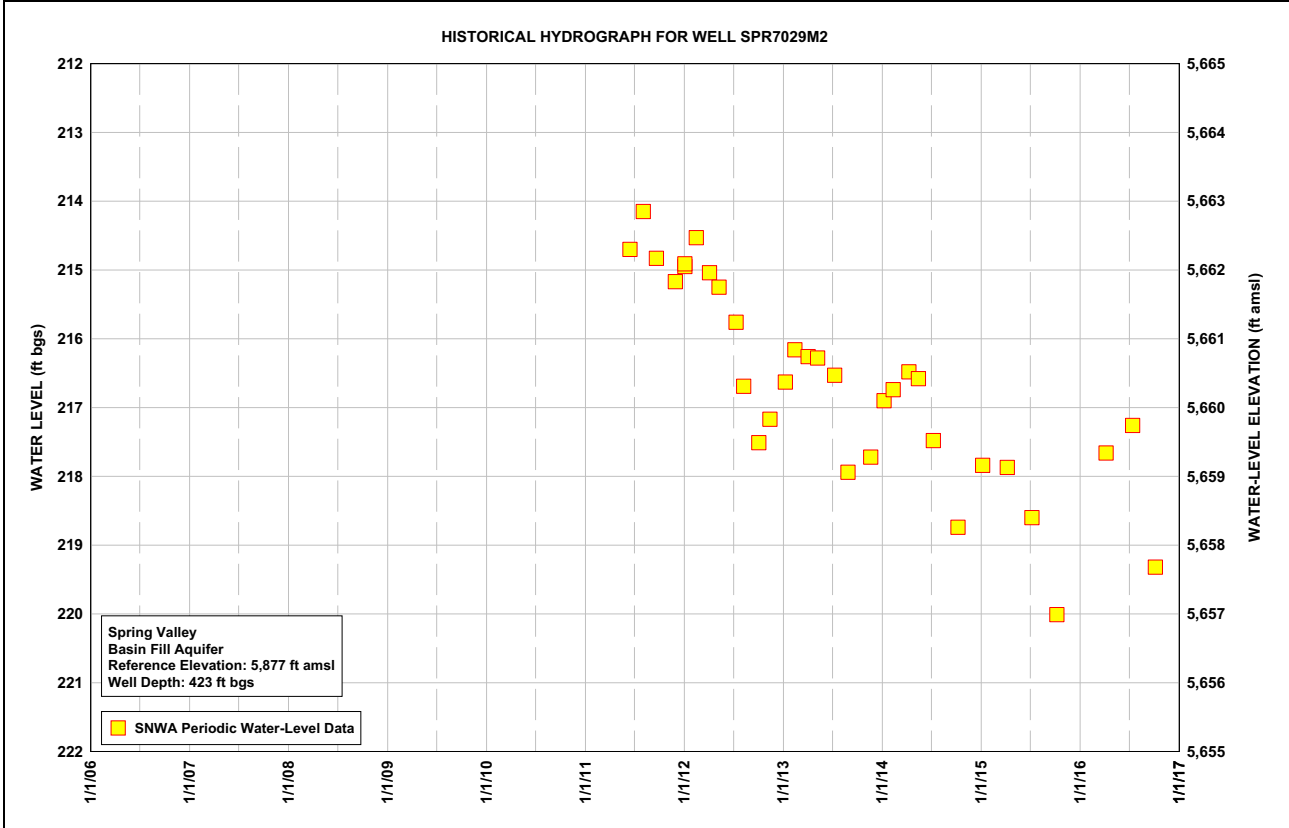
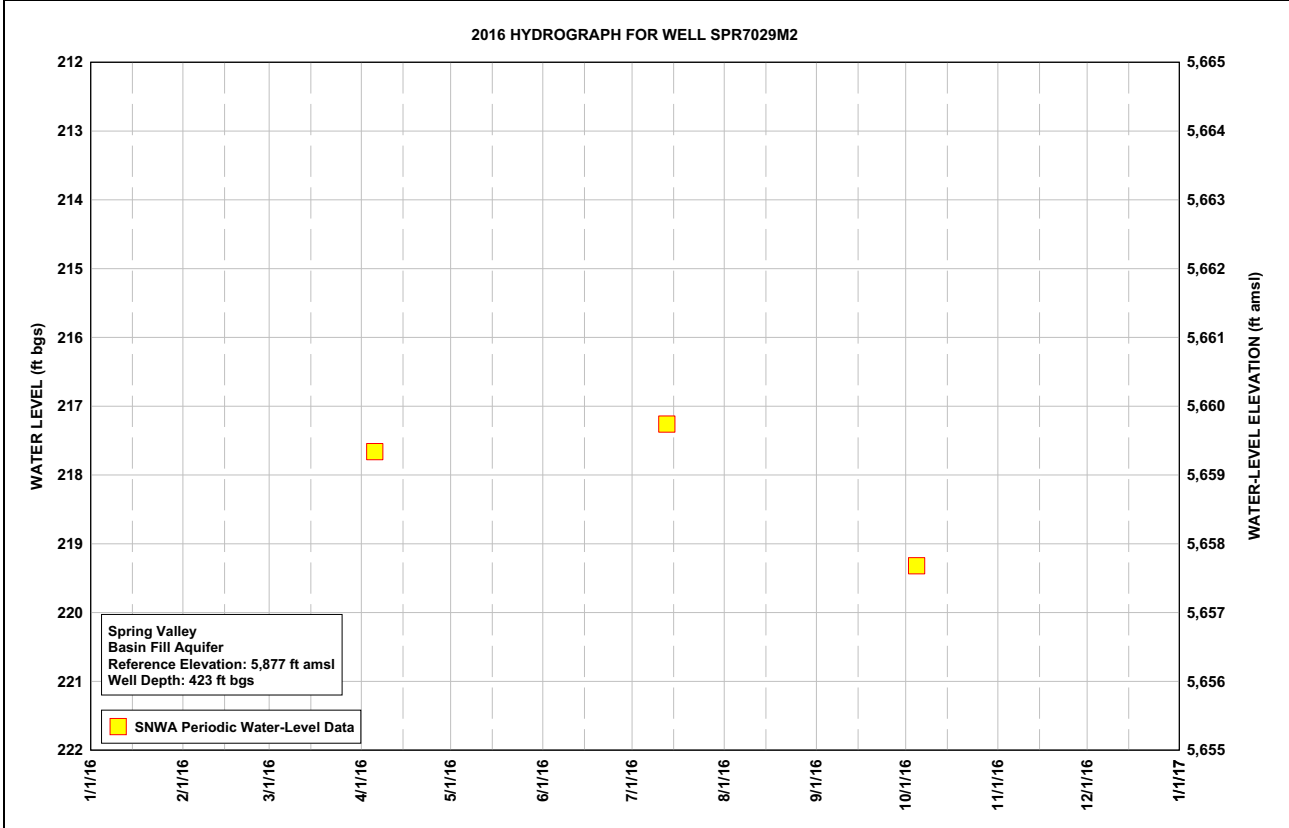


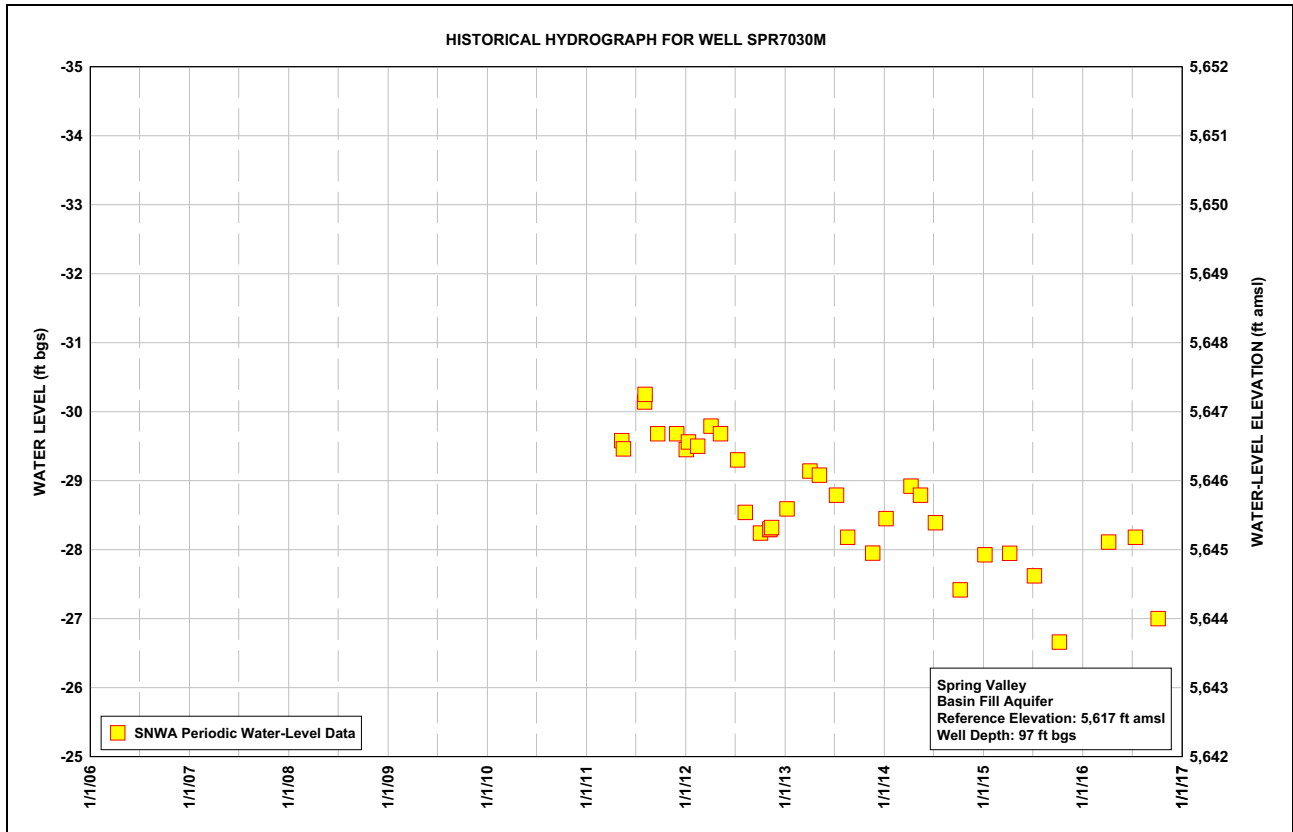
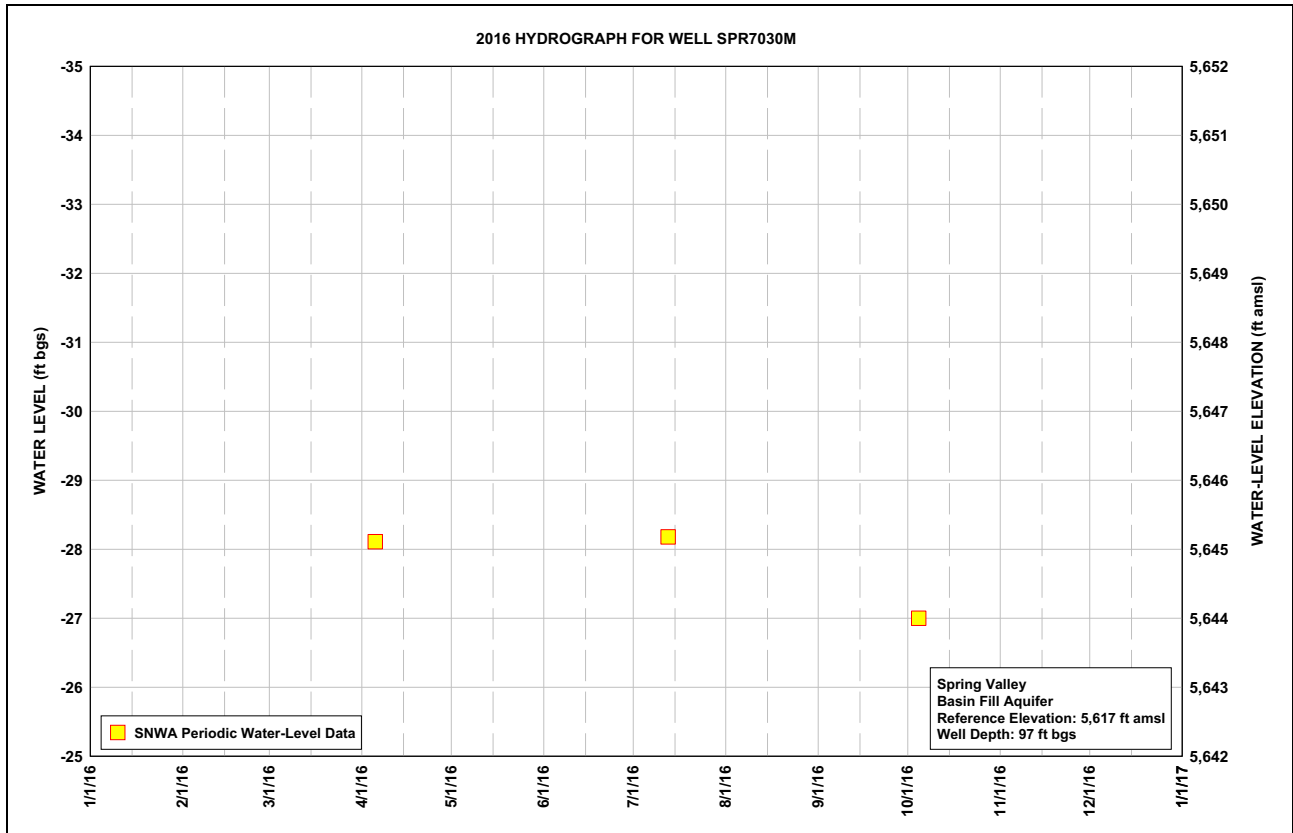


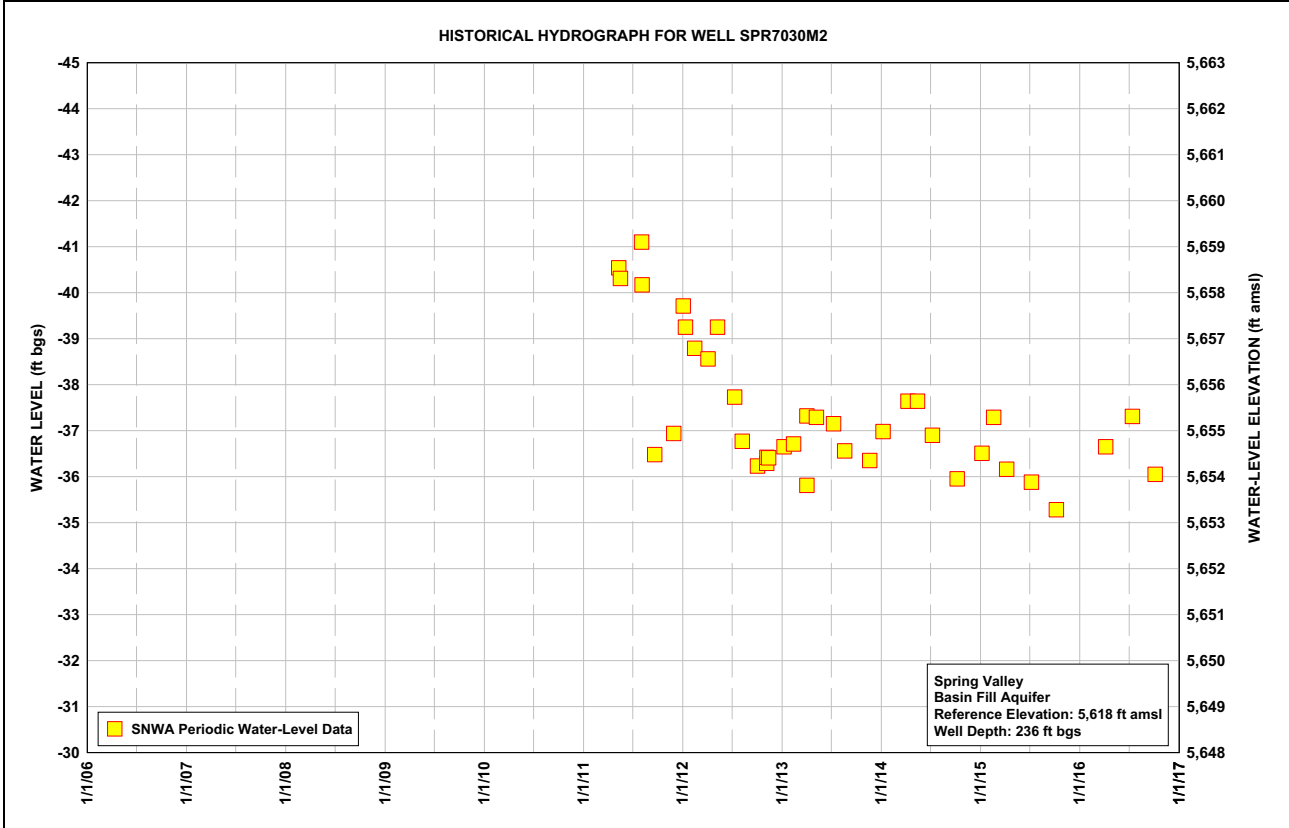
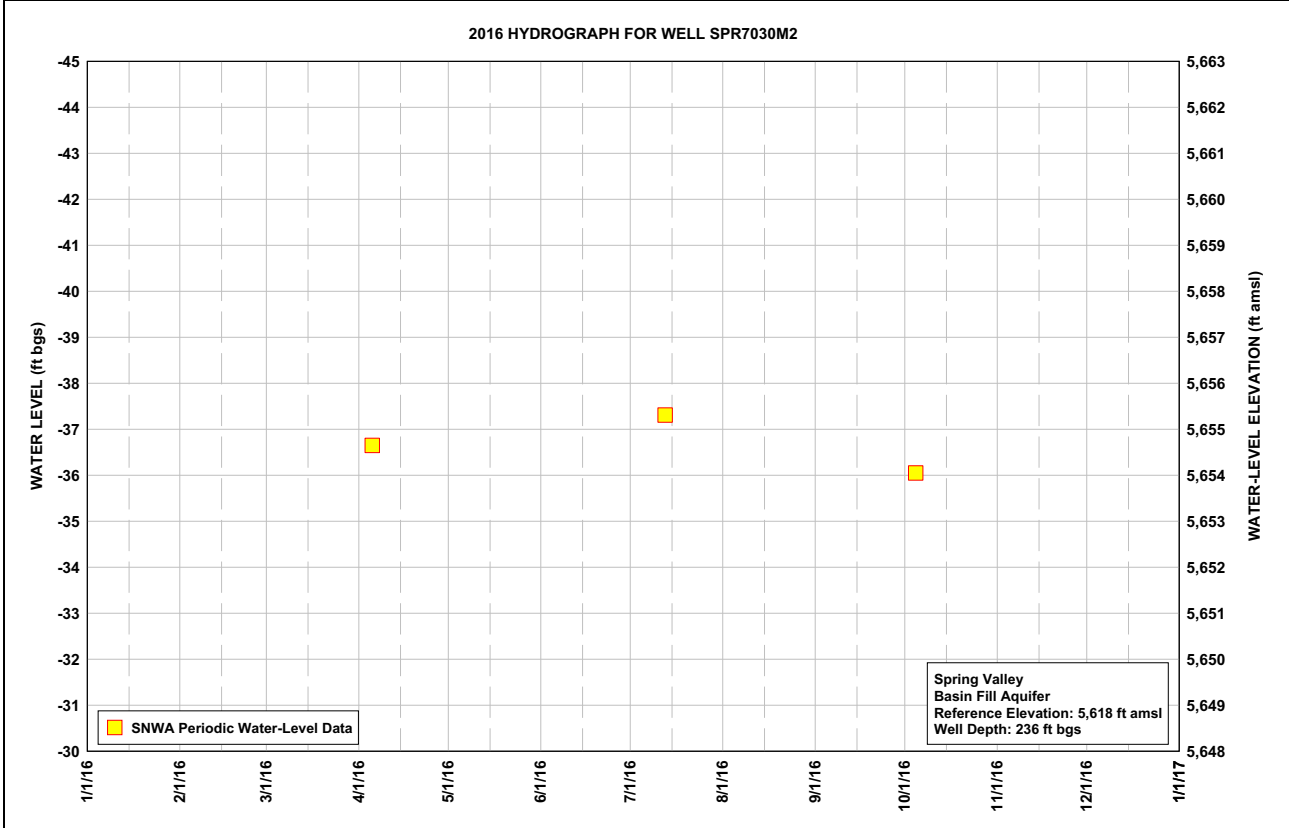


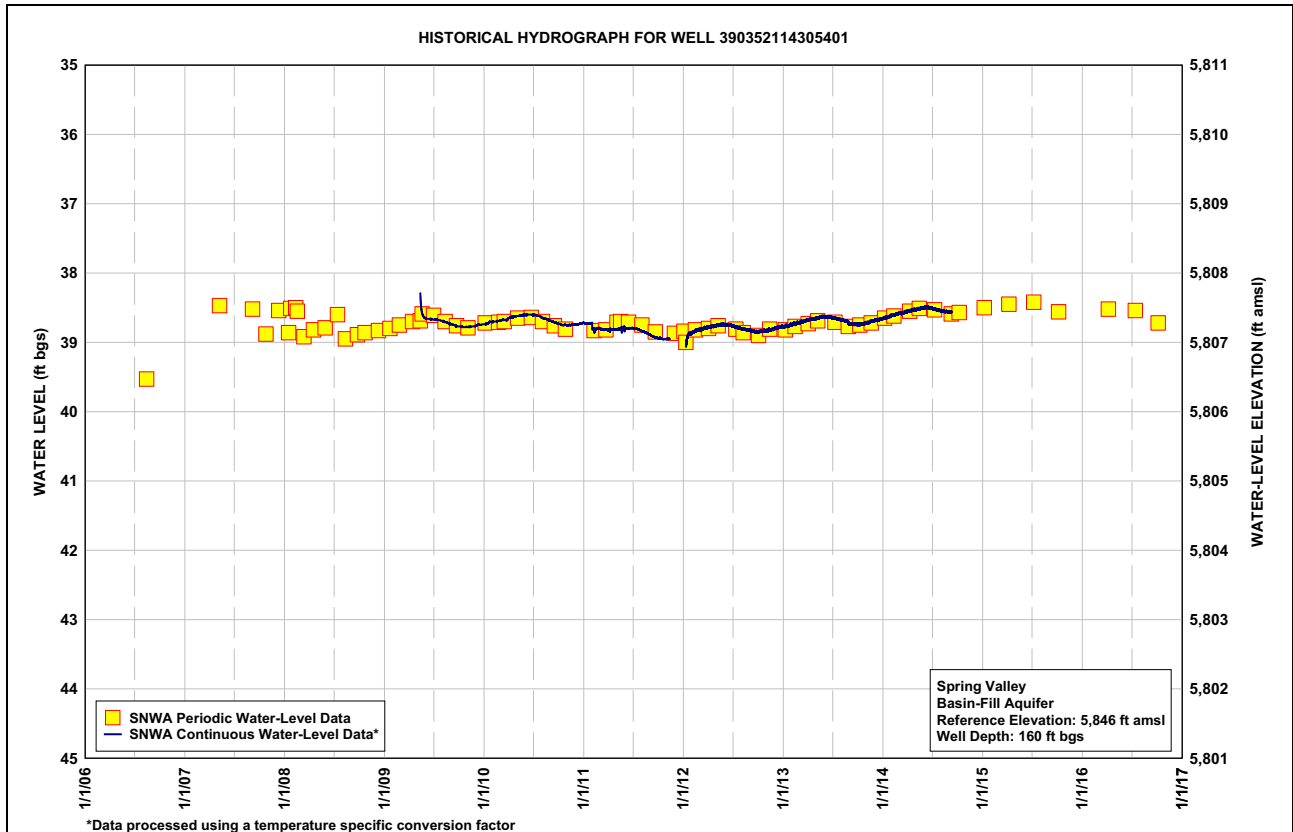
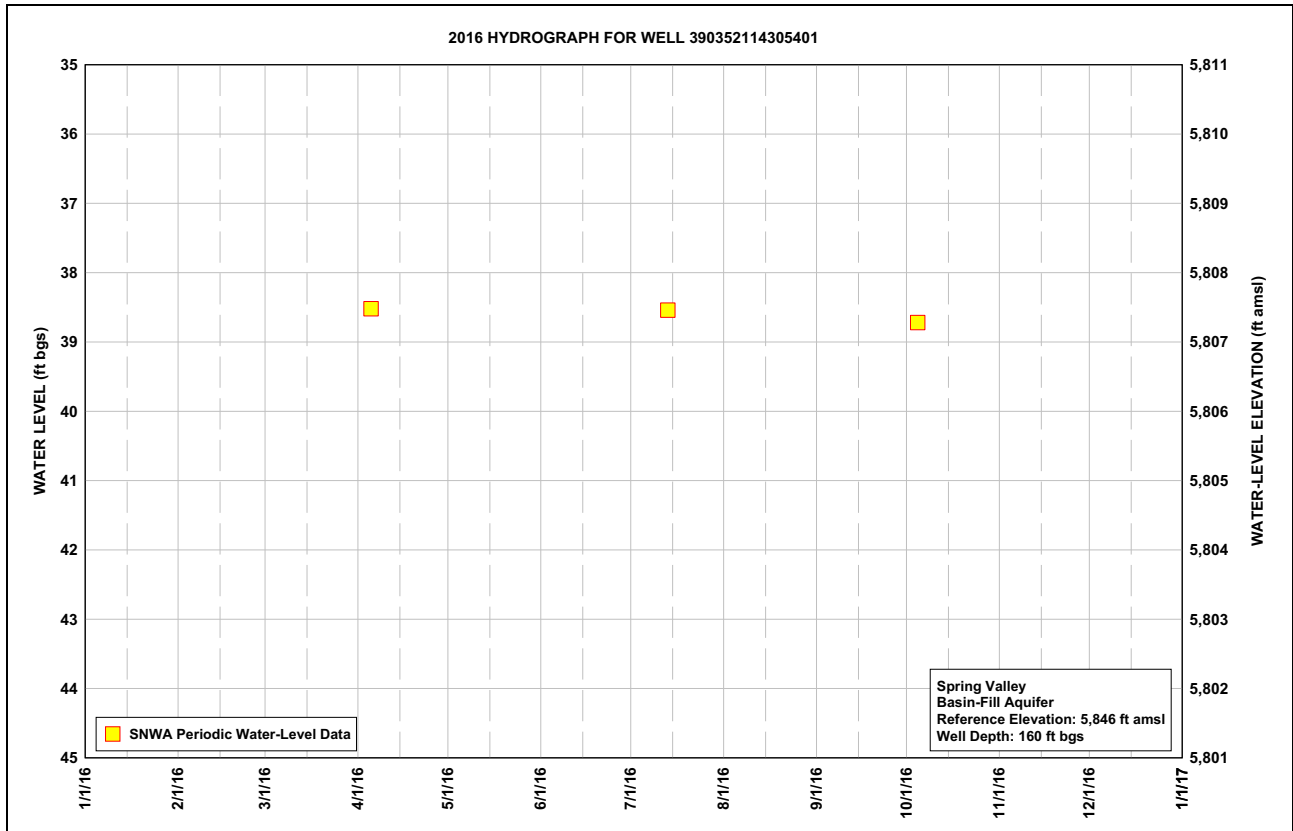




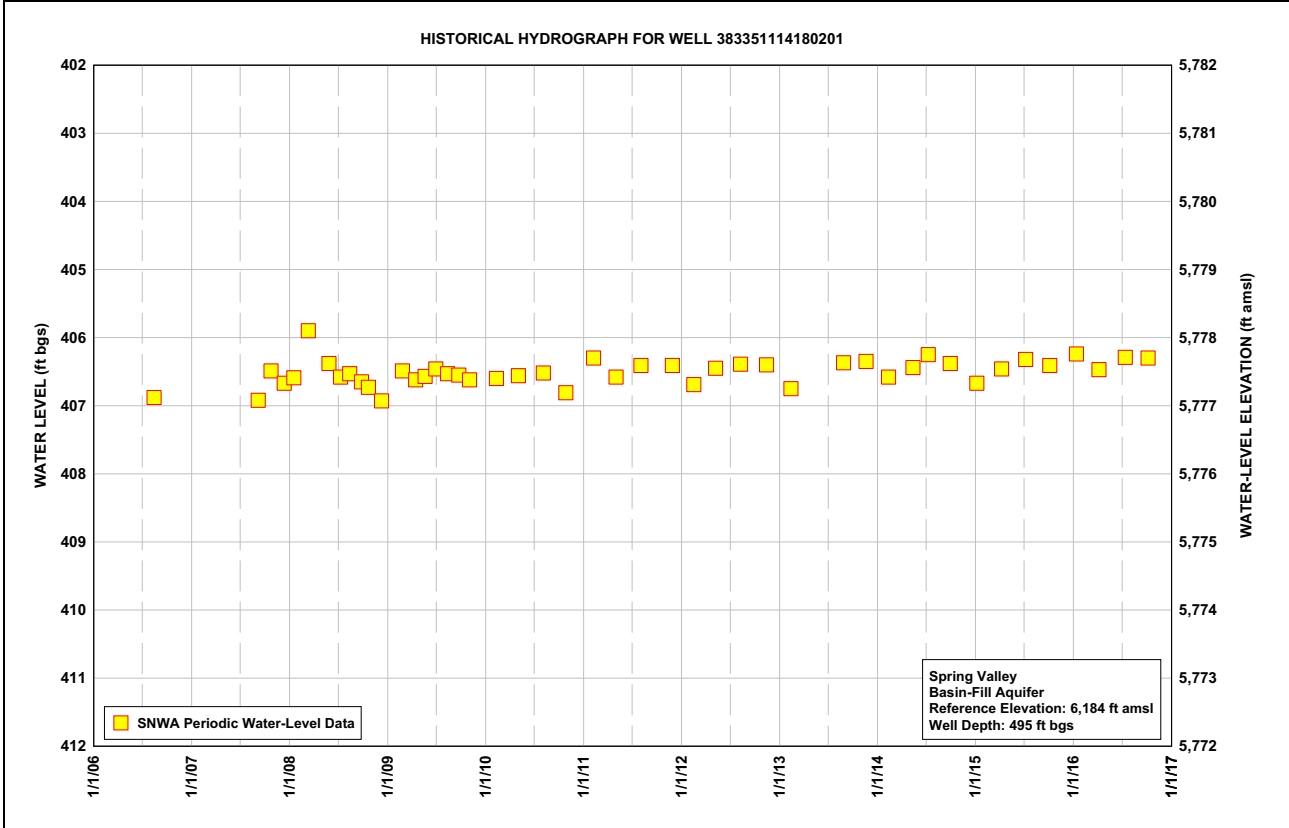
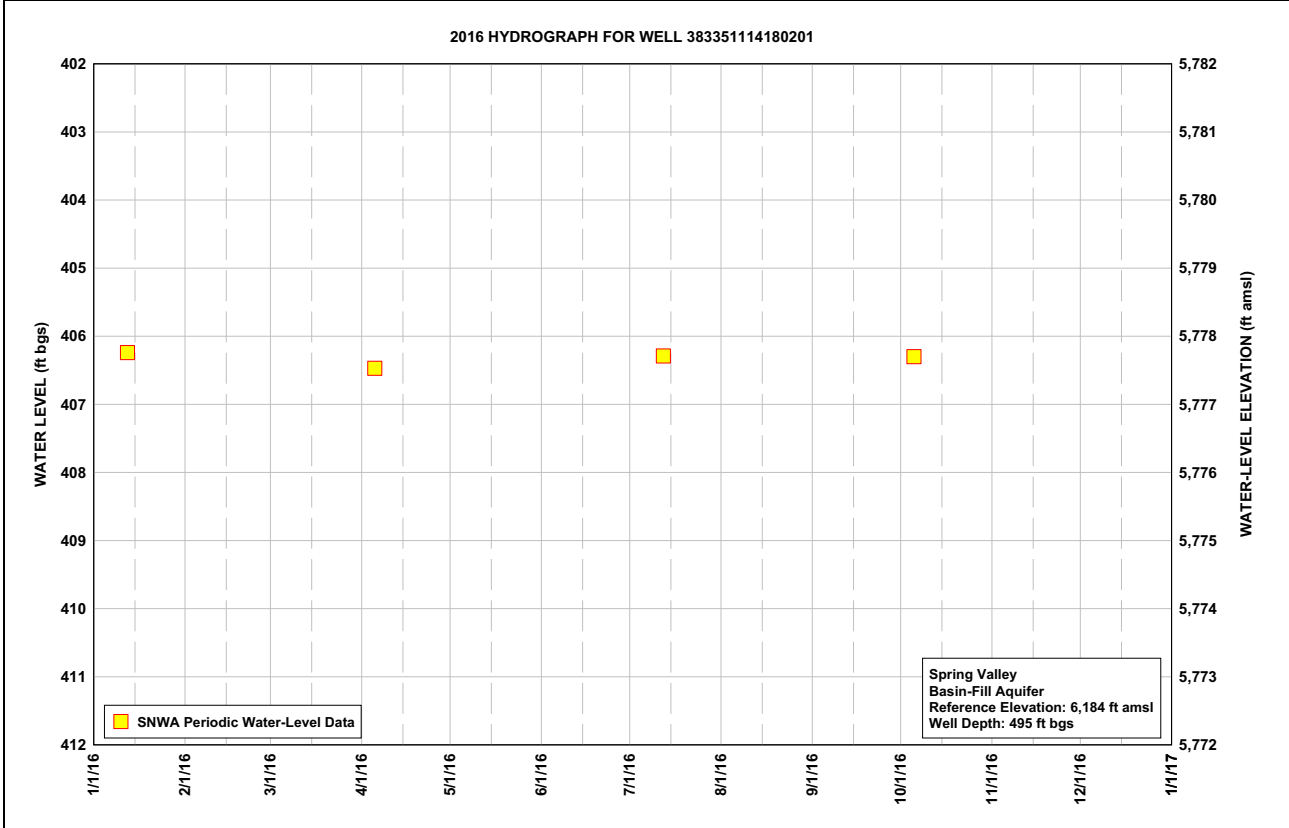


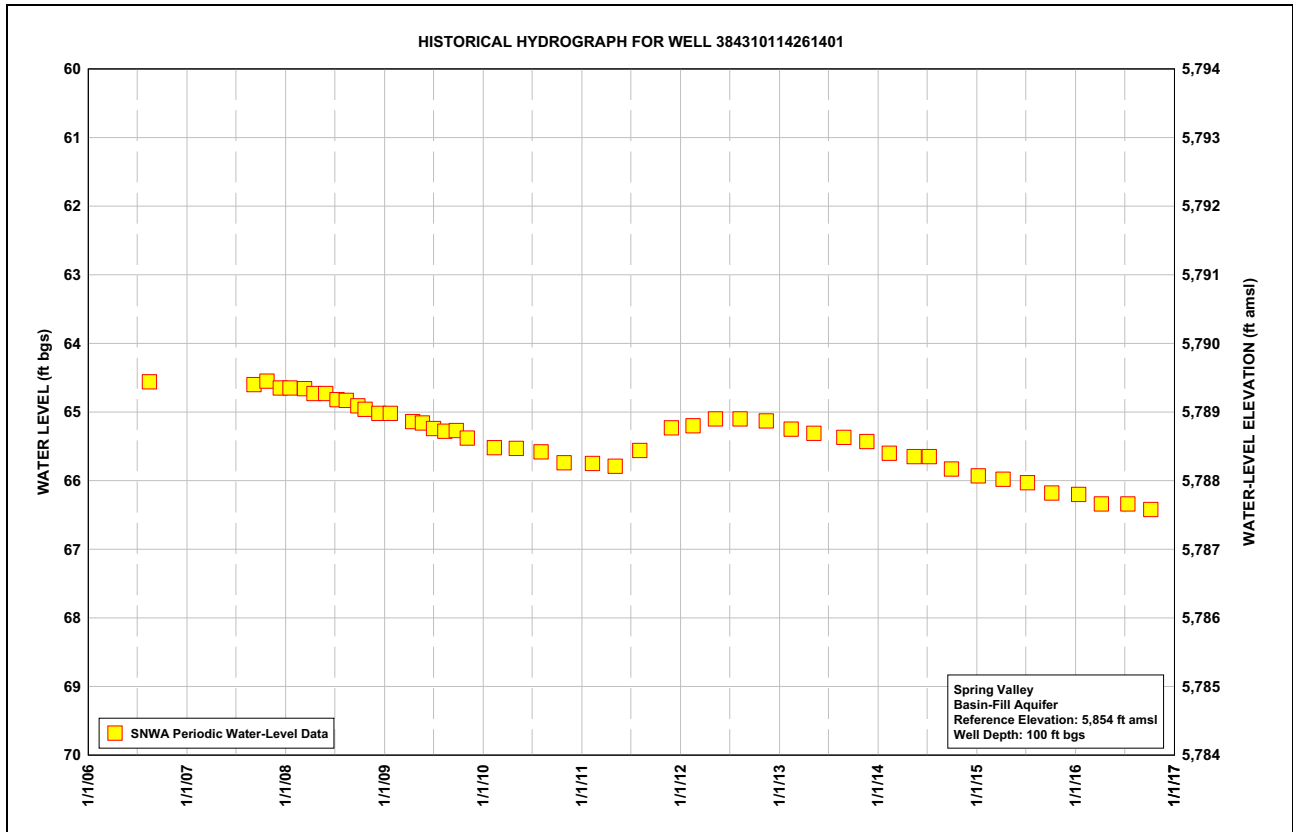
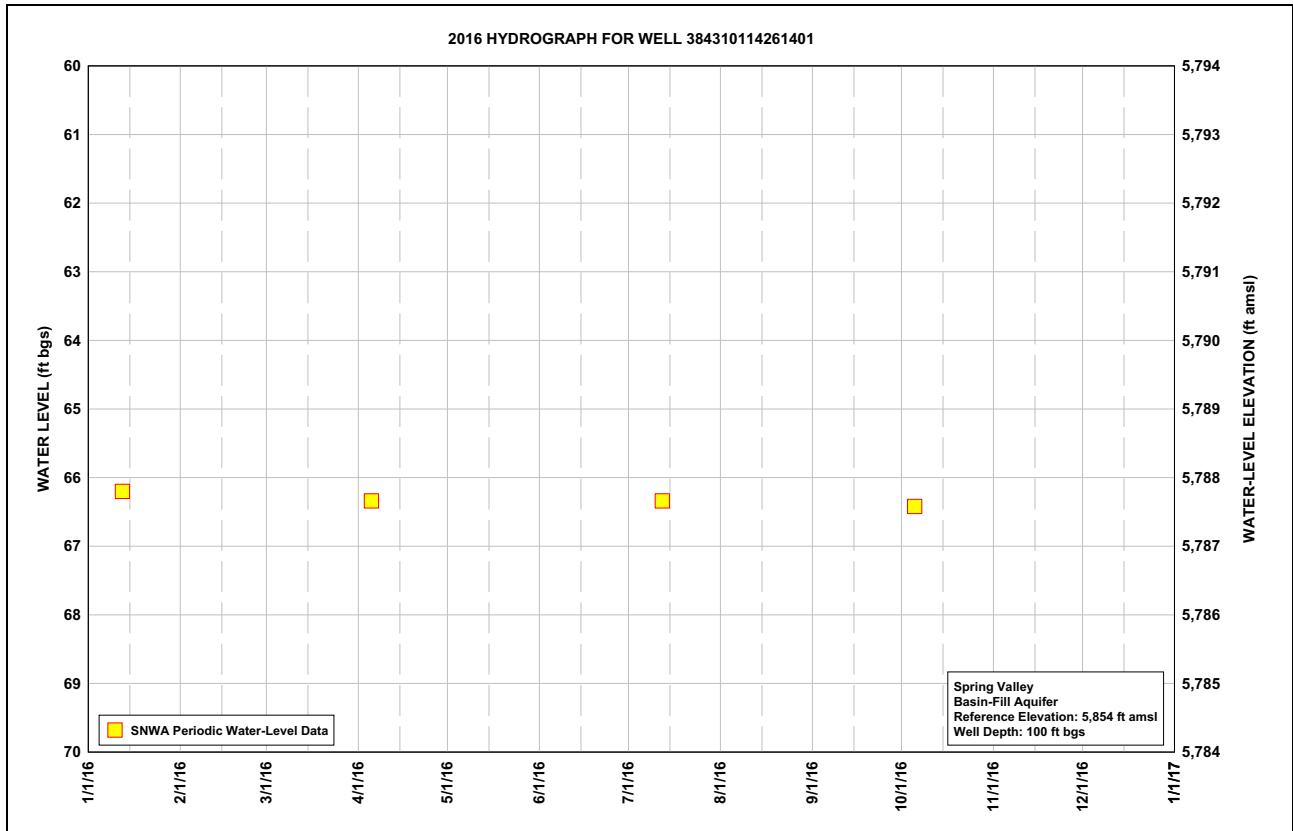


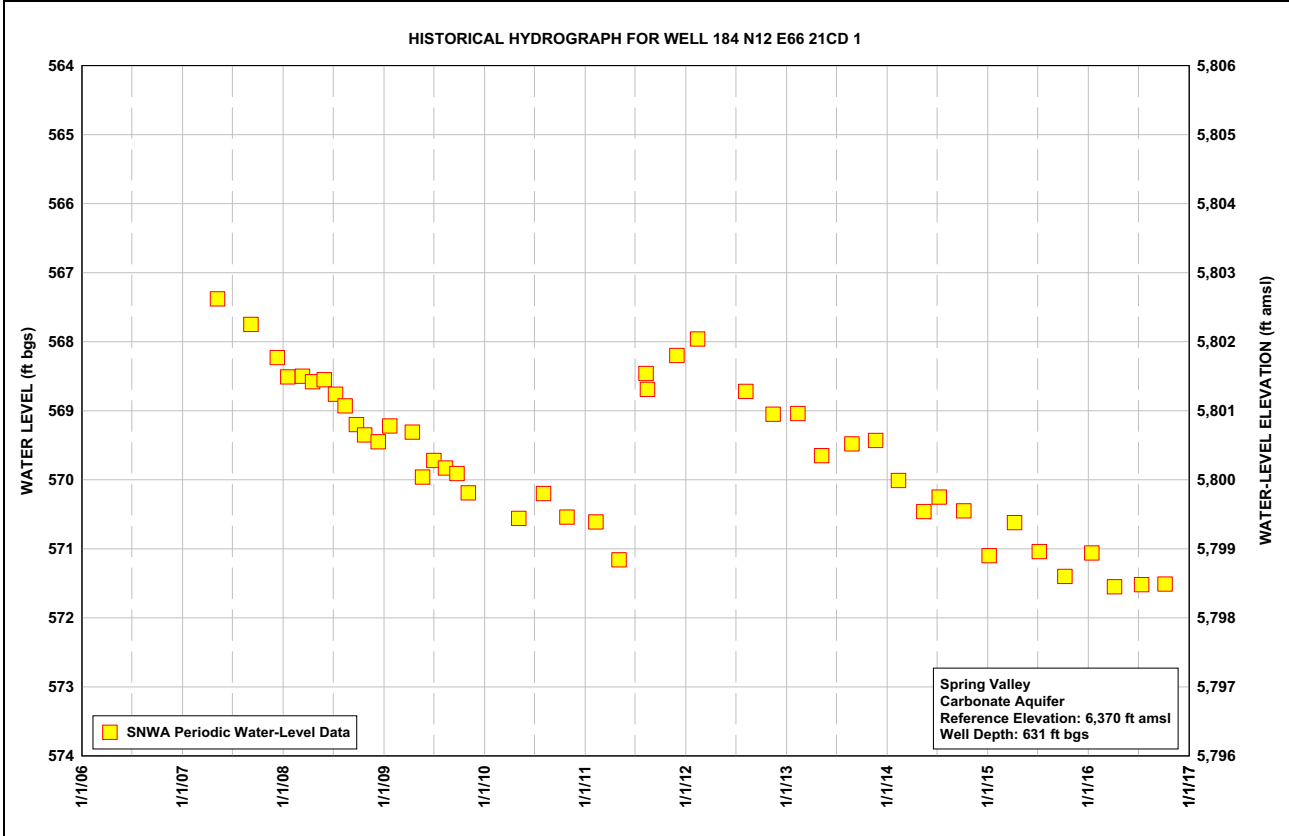
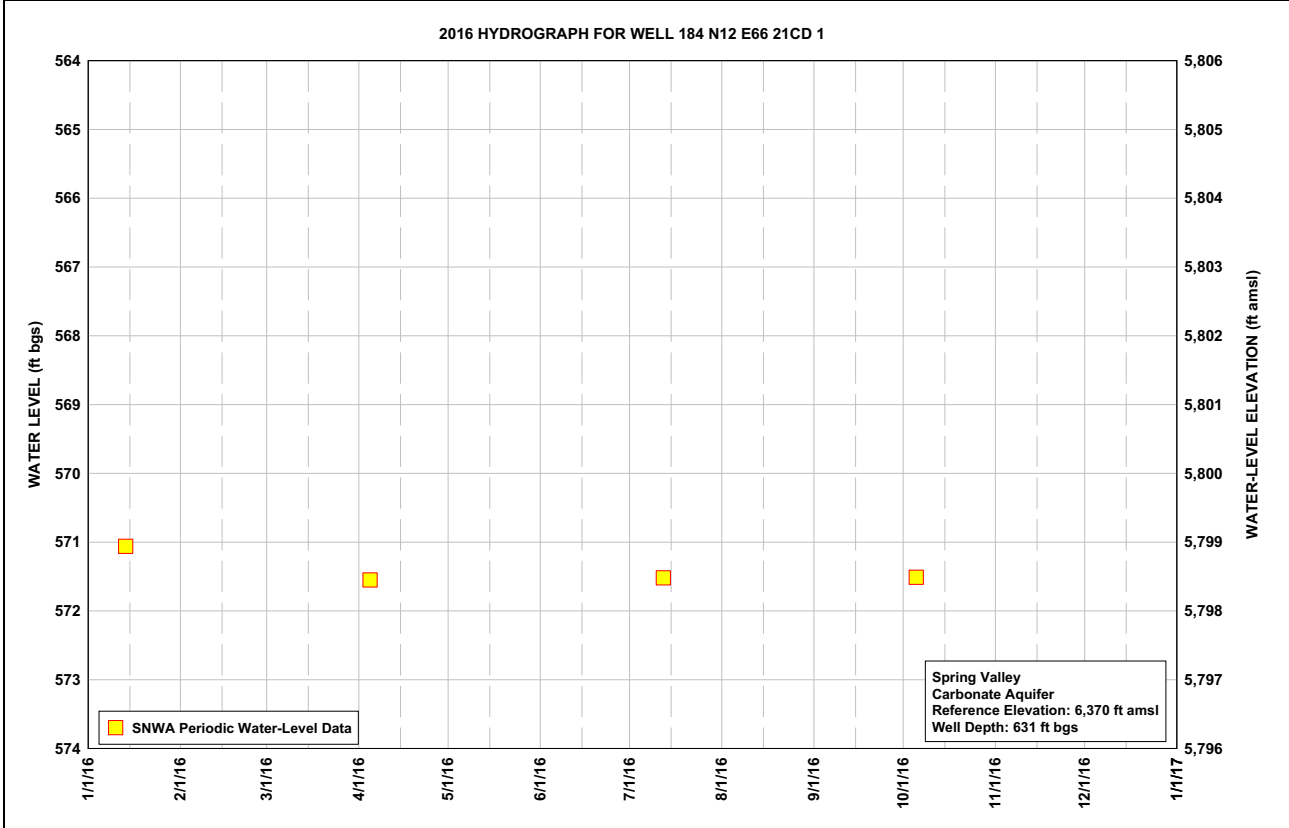


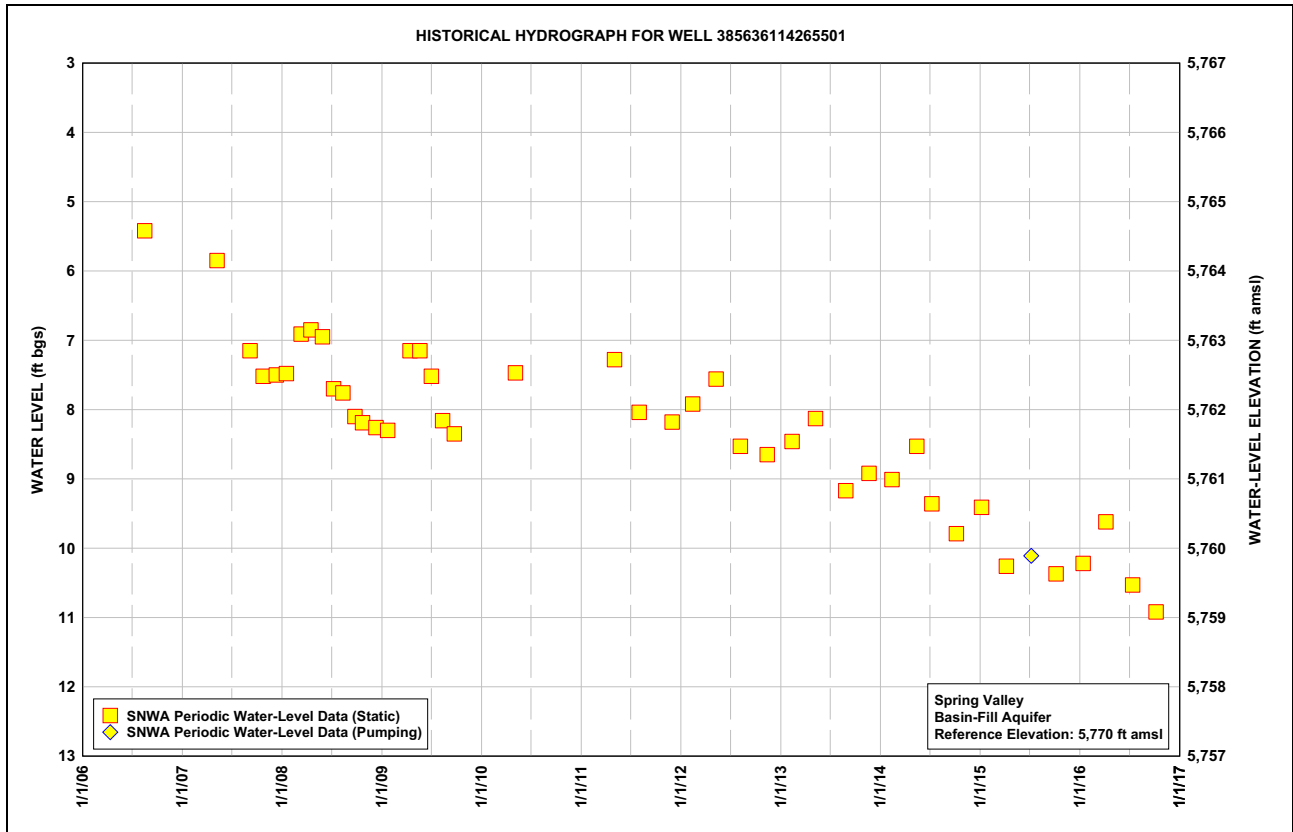
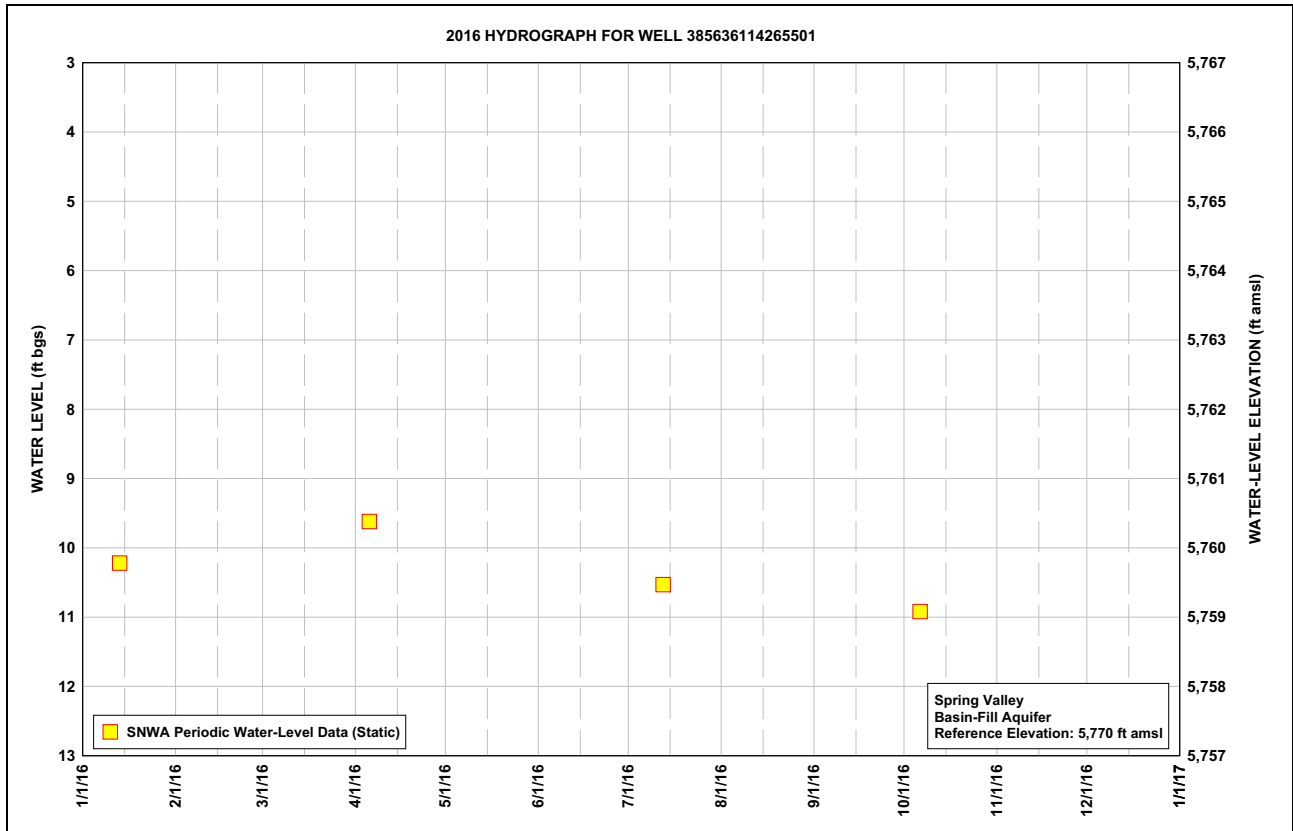


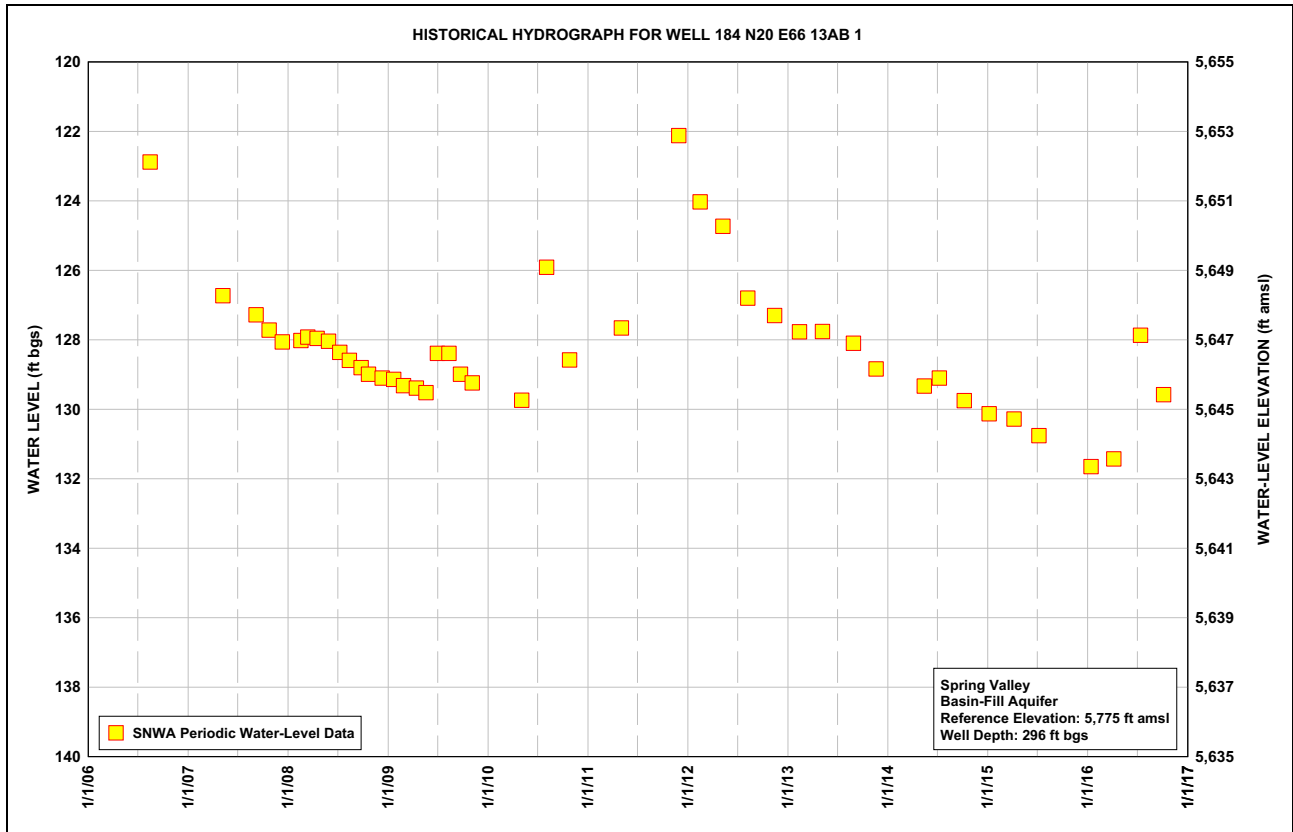
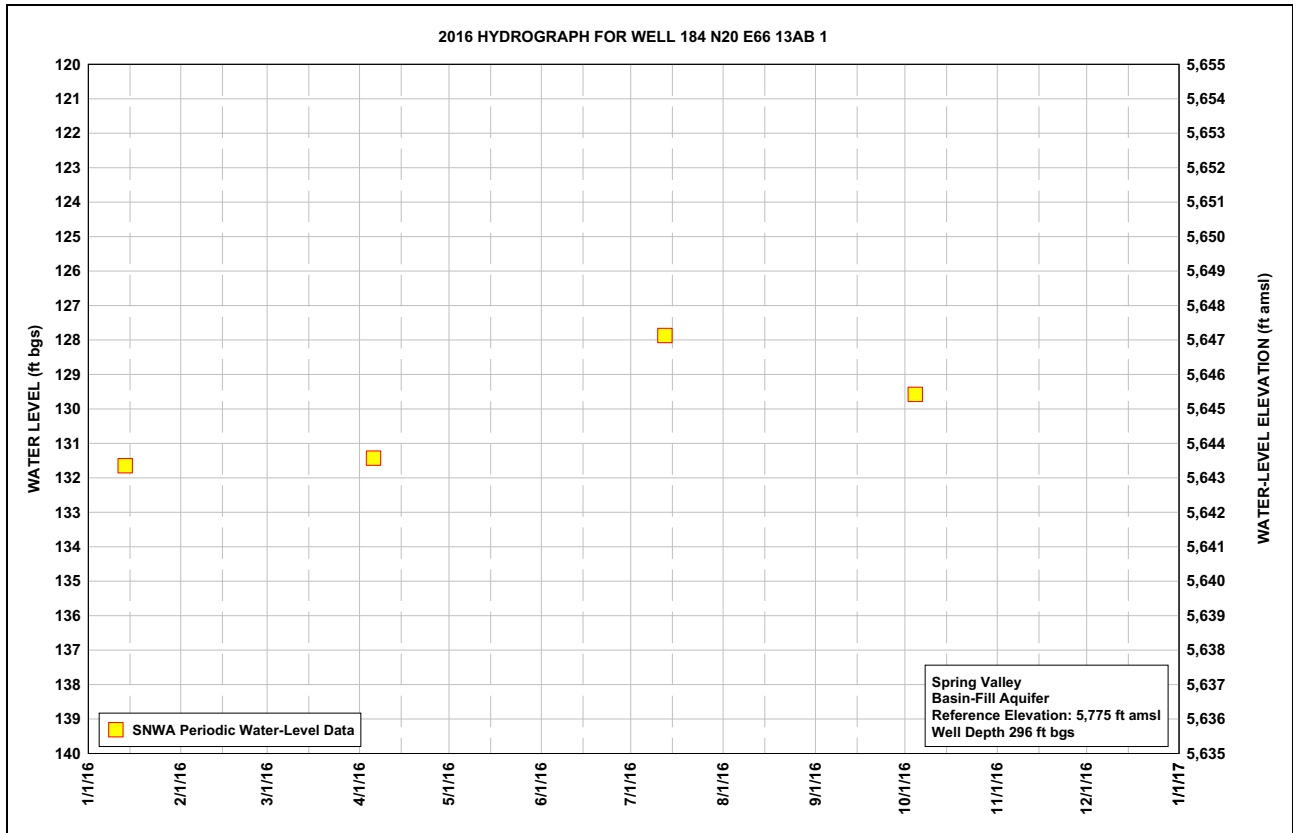
*Data processed using a temperature specific conversion factor

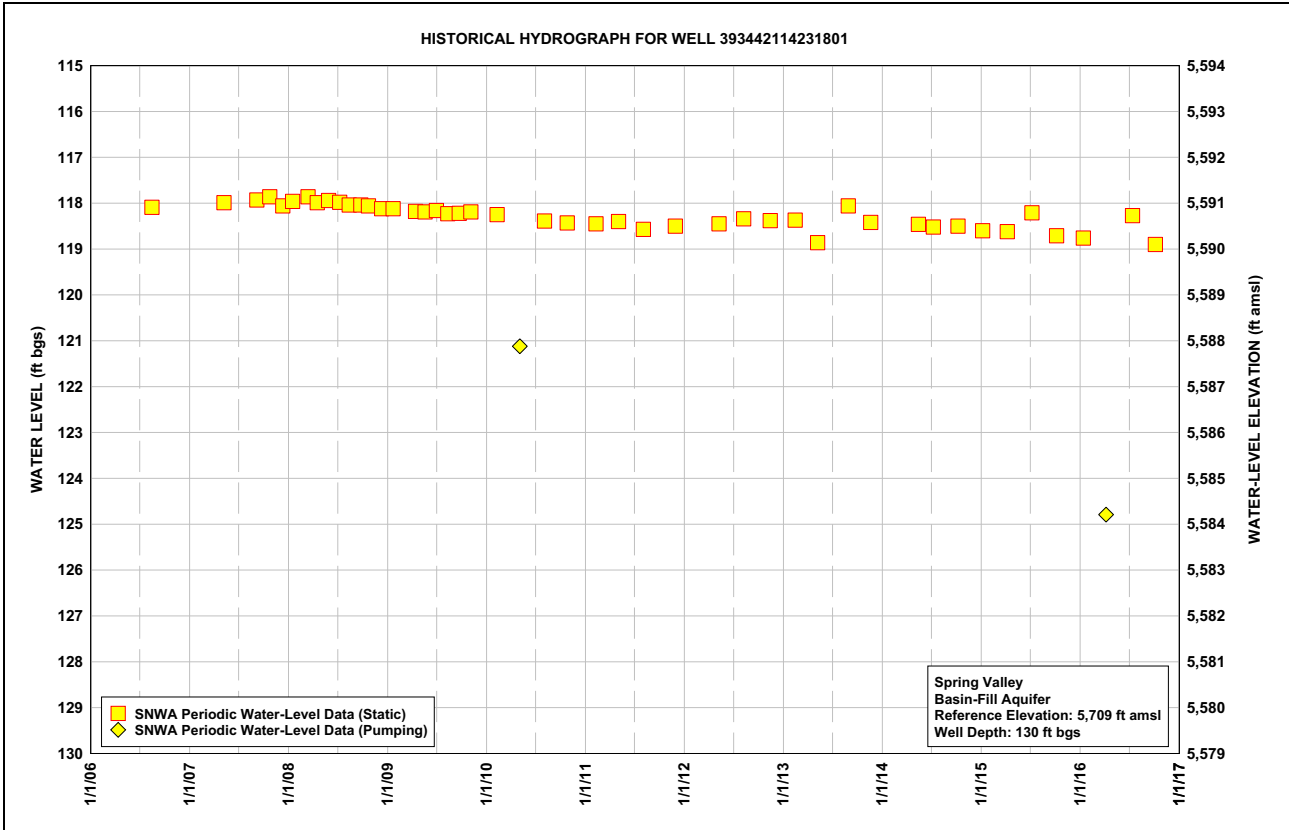
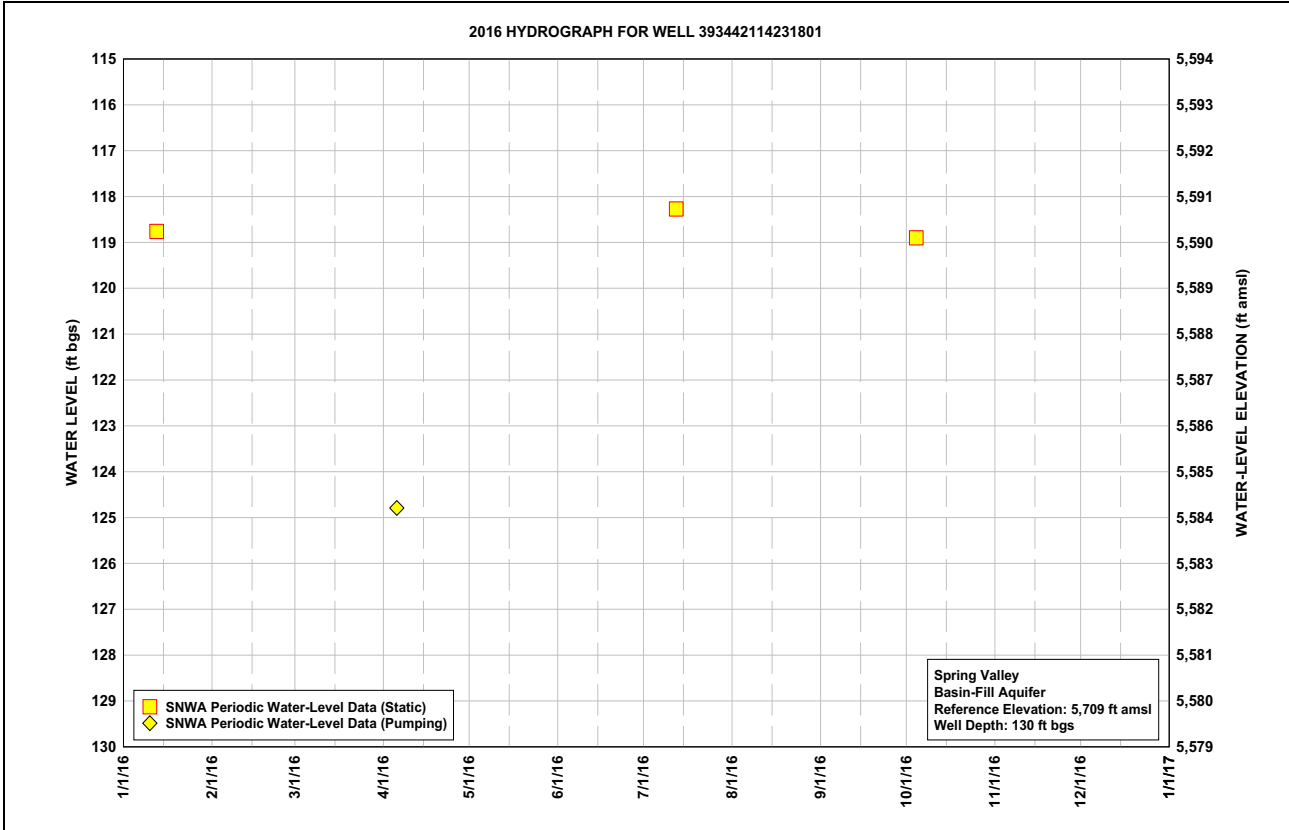


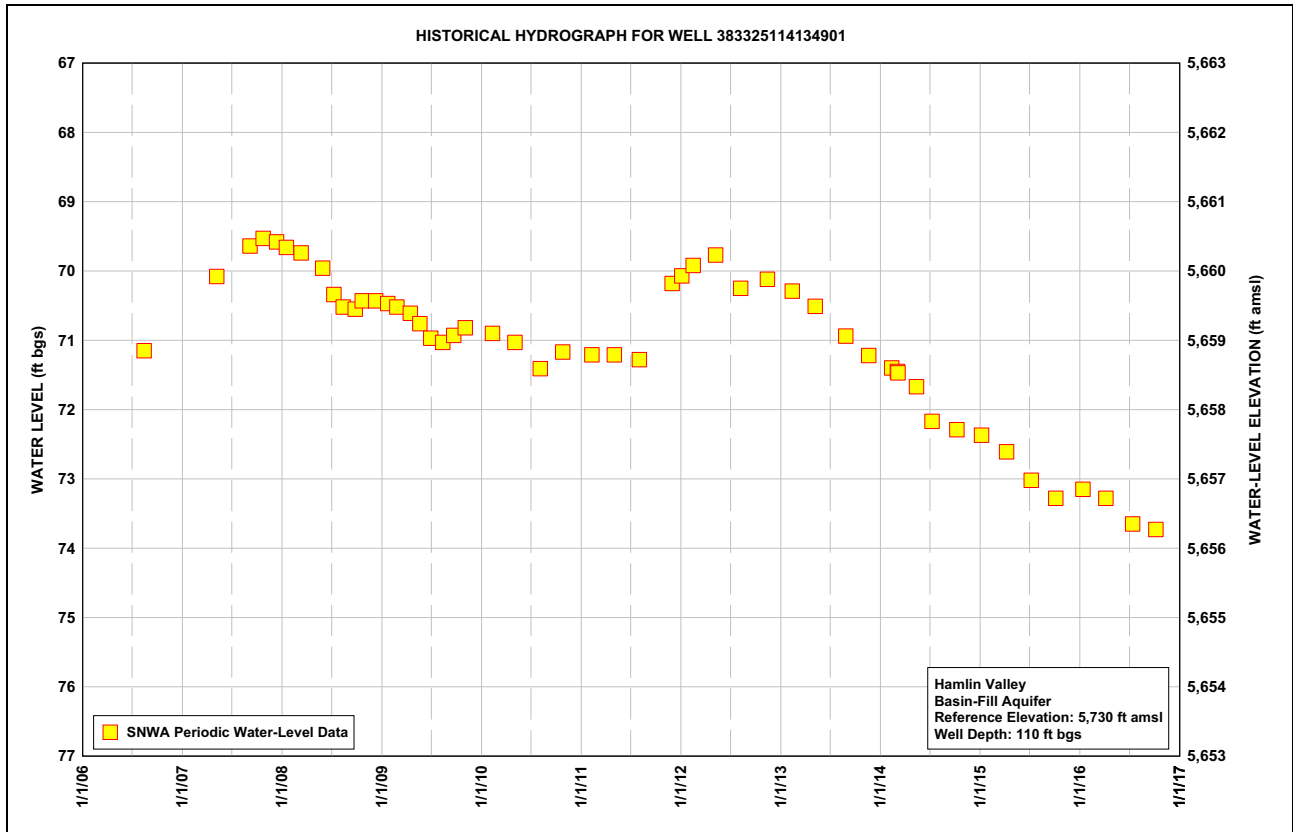
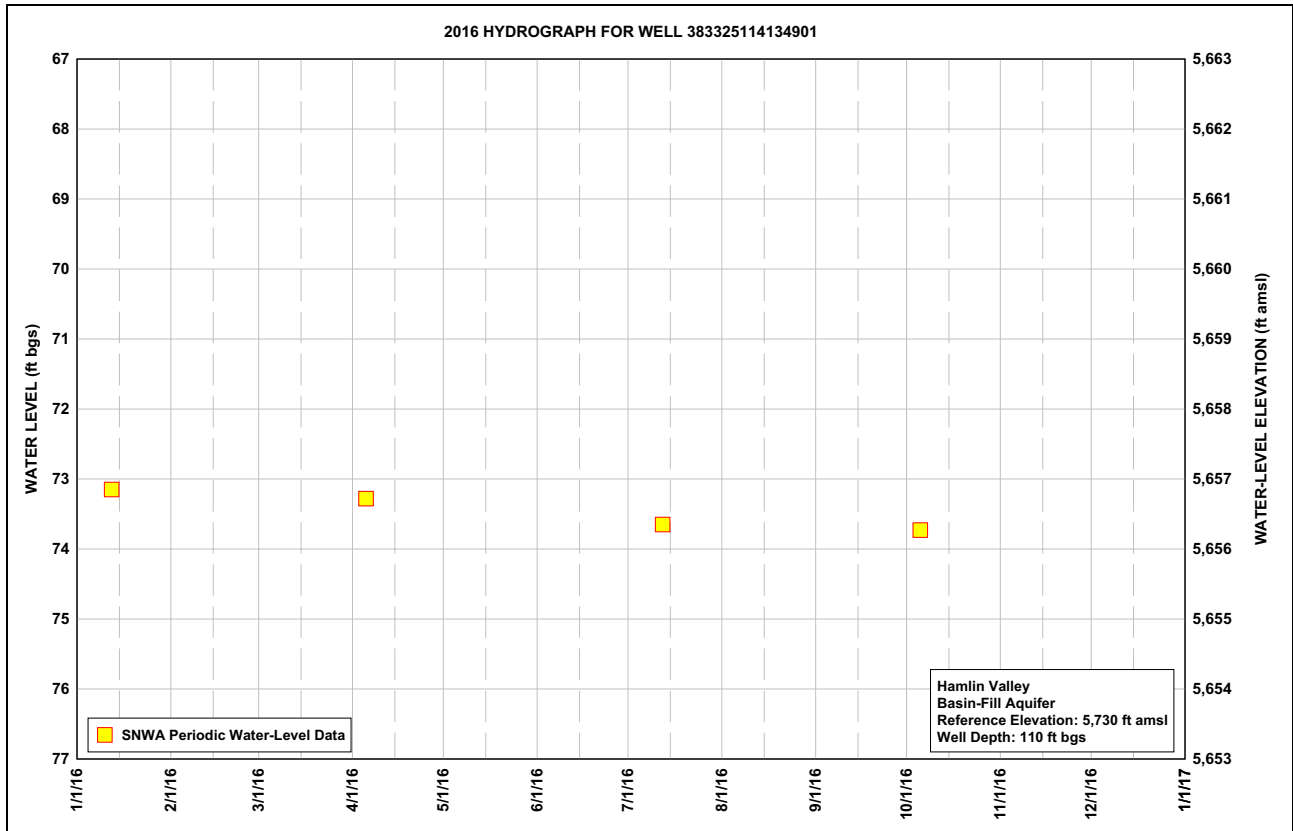


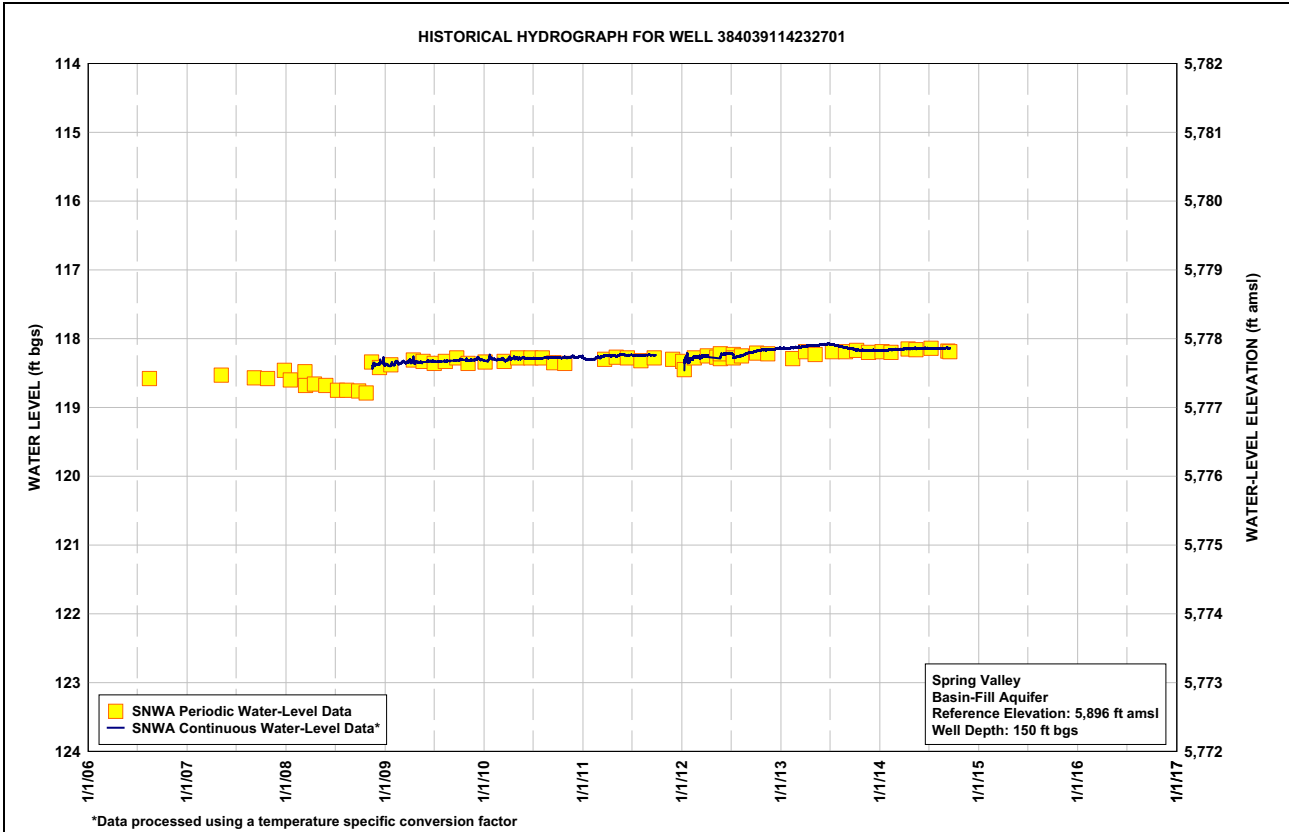
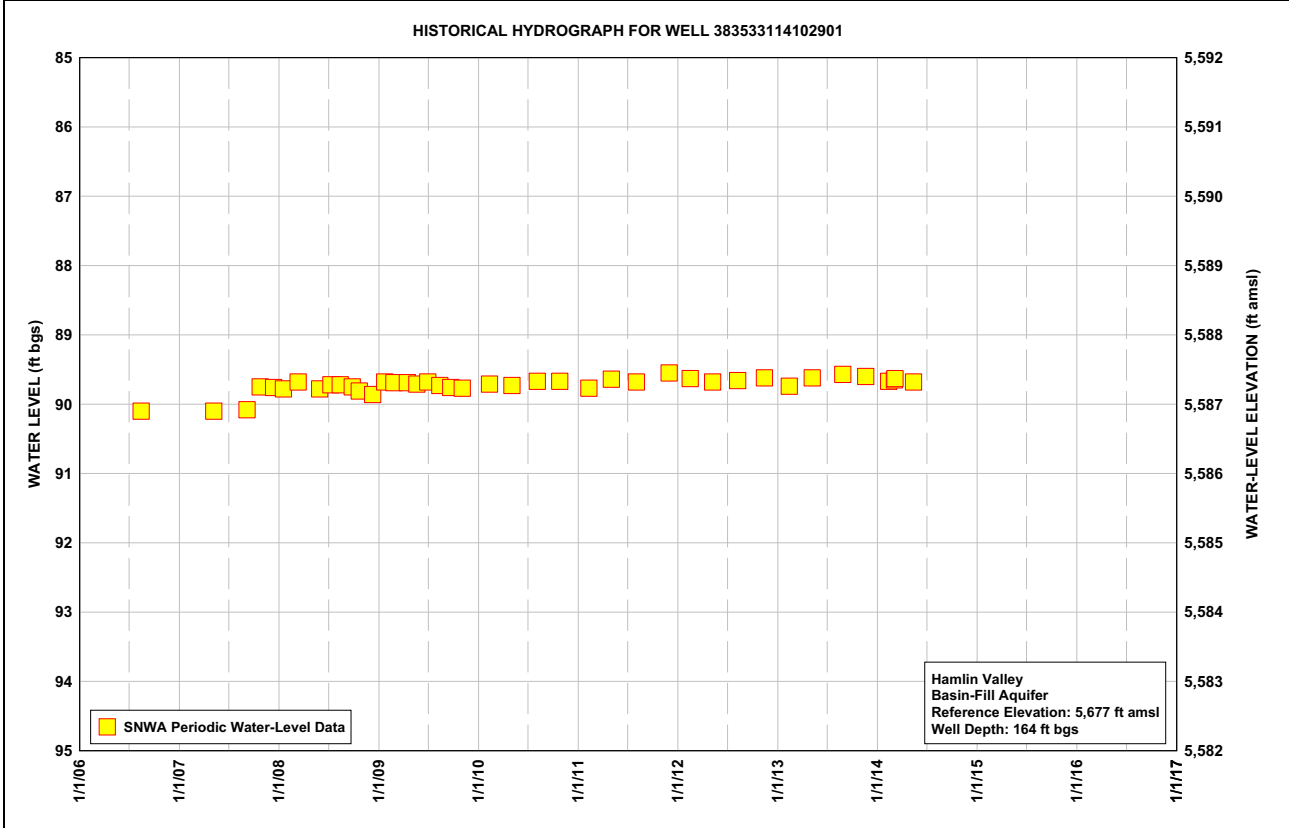


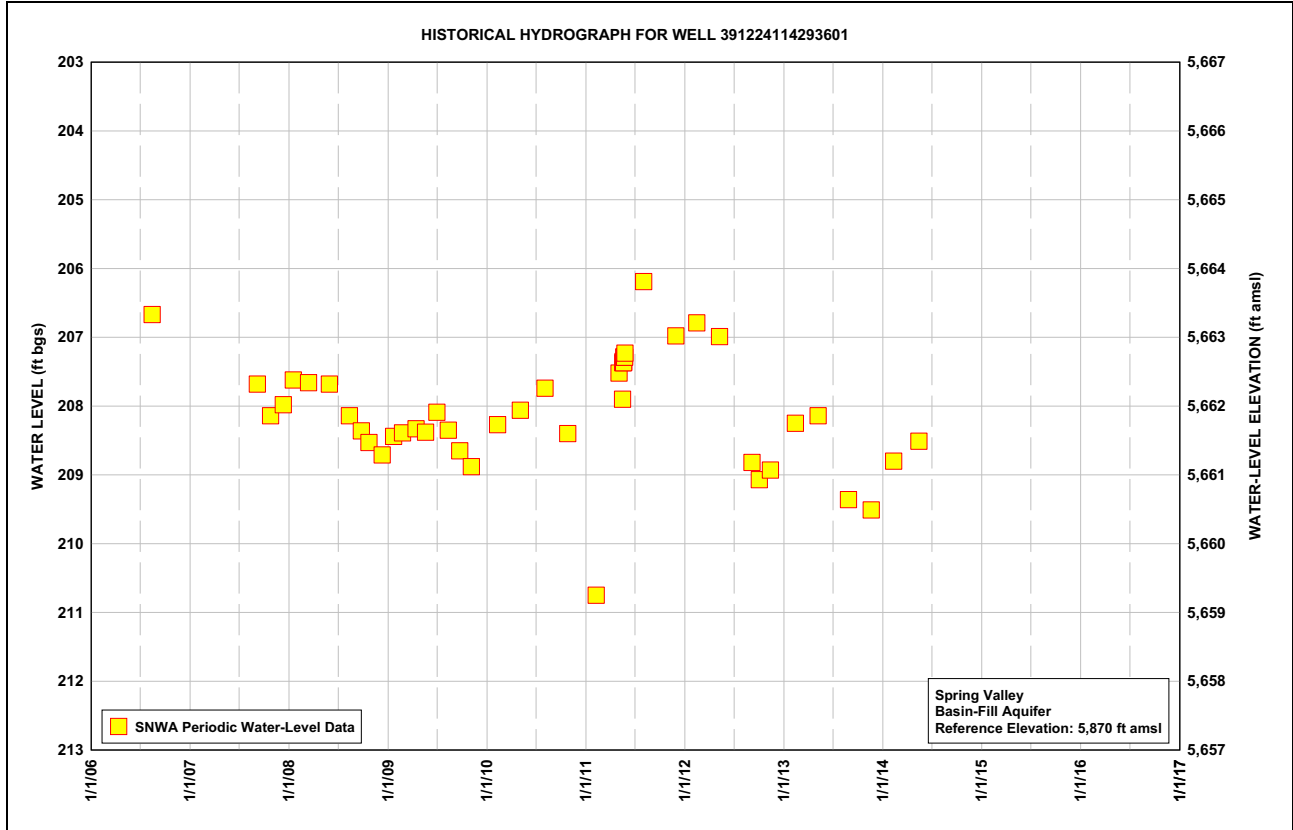












Appendix B

SV3M Plan

Continuous Water-Level Data

B.1.0 MONITORING PROGRAM WELLS WITH CONTINUOUS TRANSDUCER DATA

Continuous data collection was performed in 2016 for the following monitor wells:

- 383704114225001
- 384112114091101
- 384227114082701
- 384831114314301
- 384745114224401
- 390803114251001
- Robison Crooked Well
- 383023114115302
- 184W502M
- 184W504M
- 184W506M
- 184W508M
- SPR7006M
- SPR7007M
- SPR7005M
- SPR7008M
- SPR7024M
- SPR7024M2

For these sites, the graphs are shown below and include historical data and data collected in 2016. Continuous data have been corrected for temperature and line stretch. Additional data processing, including barometric pressure corrections, may be applied in the future.



Table B-1
Spring Valley Well 383704114225001, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|--------|--------|
| 1 | 224.86 | 224.94 | 224.89 | 224.97 | 224.94 | 224.90 | 224.87 | 224.90 | 224.85 | 224.80 | 224.88 | 224.85 |
| 2 | 224.85 | 224.99 | 224.88 | 224.90 | 224.94 | 224.91 | 224.89 | 224.92 | 224.82 | 224.72 | 225.00 | 224.94 |
| 3 | 224.81 | 224.98 | 224.86 | 224.87 | 224.90 | 224.93 | 224.87 | 224.86 | 224.79 | 224.87 | 224.93 | 224.89 |
| 4 | 224.75 | 224.93 | 224.84 | 224.89 | 224.83 | 224.89 | 224.84 | 224.86 | 224.77 | 224.84 | 224.86 | 224.78 |
| 5 | 224.77 | 224.96 | 224.80 | 224.95 | 224.80 | 224.79 | 224.84 | 224.84 | 224.91 | 224.86 | 224.82 | 224.81 |
| 6 | 224.79 | 224.89 | 224.74 | 224.95 | 224.81 | 224.82 | 224.85 | 224.86 | 224.89 | 224.94 | 224.85 | 224.77 |
| 7 | 224.79 | 224.94 | 224.83 | 224.78 | 224.88 | 224.90 | 224.88 | 224.82 | 224.90 | 224.89 | 224.95 | 224.99 |
| 8 | 224.96 | 224.94 | 224.91 | 224.80 | 224.83 | 224.89 | 224.88 | 224.85 | 224.89 | 224.87 | 224.91 | 224.90 |
| 9 | 224.93 | 224.86 | 224.96 | 224.83 | 224.88 | 224.85 | 224.89 | 224.85 | 224.91 | 224.85 | 224.86 | 224.88 |
| 10 | 224.92 | 224.85 | 224.89 | 224.84 | 224.98 | 224.89 | 224.79 | 224.89 | 224.85 | 224.82 | 224.87 | 224.78 |
| 11 | 224.93 | 224.87 | 224.78 | 224.95 | 224.99 | 224.90 | 224.89 | 224.93 | 224.79 | 224.85 | 224.87 | 224.87 |
| 12 | 224.85 | 224.86 | 224.91 | 224.89 | 224.90 | 224.91 | 224.86 | 224.88 | 224.74 | 224.88 | 224.86 | 224.86 |
| 13 | 224.74 | 224.86 | 224.87 | 224.83 | 224.87 | 224.85 | 224.91 | 224.86 | 224.83 | 224.84 | 224.88 | 224.87 |
| 14 | 224.81 | 224.87 | 224.87 | 224.77 | 224.79 | 224.78 | 224.86 | 224.84 | 224.93 | 224.79 | 224.87 | 224.86 |
| 15 | 224.87 | 224.88 | 224.93 | 224.91 | 224.79 | 224.81 | 224.82 | 224.85 | 224.91 | 224.78 | 224.78 | 224.78 |
| 16 | 224.92 | 224.82 | 224.91 | 224.97 | 224.91 | 224.93 | 224.83 | 224.86 | 224.88 | 224.79 | 224.66 | 224.64 |
| 17 | 224.90 | 224.75 | 224.83 | 224.93 | 224.92 | 224.94 | 224.88 | 224.86 | 224.88 | 224.92 | 224.99 | 225.04 |
| 18 | 224.81 | 224.83 | 224.91 | 224.91 | 224.88 | 224.92 | 224.91 | 224.88 | 224.87 | 224.90 | 224.95 | 225.04 |
| 19 | 224.87 | 224.93 | 224.91 | 224.85 | 224.71 | 224.91 | 224.89 | 224.85 | 224.87 | 225.01 | 224.84 | 224.92 |
| 20 | 224.91 | 224.93 | 224.87 | 224.84 | 224.77 | 224.88 | 224.89 | 224.88 | 224.86 | 224.85 | 224.81 | 224.85 |
| 21 | 224.94 | 224.89 | 224.79 | 224.85 | 224.91 | 224.84 | 224.88 | 224.86 | 224.77 | 224.78 | 224.74 | 224.87 |
| 22 | 224.81 | 224.83 | 224.88 | 224.78 | 224.92 | 224.84 | 224.87 | 224.86 | 224.73 | 224.82 | 224.96 | 224.77 |
| 23 | 224.75 | 224.93 | 224.99 | 224.95 | 224.83 | 224.88 | 224.86 | 224.90 | 224.94 | 224.90 | 224.84 | 224.77 |
| 24 | 224.87 | 224.90 | 224.86 | 224.84 | 224.88 | 224.87 | 224.87 | 224.86 | 224.96 | 224.86 | 224.95 | 224.62 |
| 25 | 224.95 | 224.90 | 224.80 | 224.72 | 224.92 | 224.93 | 224.87 | 224.84 | 224.94 | 224.88 | 224.84 | 225.03 |
| 26 | 224.97 | 224.87 | 224.93 | 224.94 | 224.88 | 224.89 | 224.88 | 224.86 | 224.84 | 224.88 | 224.69 | 225.06 |
| 27 | 224.89 | 224.83 | 224.87 | 224.84 | 224.85 | 224.87 | 224.88 | 224.88 | 224.82 | 224.82 | 224.80 | 224.89 |
| 28 | 224.80 | 224.89 | 224.66 | 224.85 | 224.90 | 224.89 | 224.86 | 224.91 | 224.87 | 224.80 | 224.81 | 224.94 |
| 29 | 224.79 | 224.87 | 224.87 | 224.92 | 224.90 | 224.87 | 224.85 | 224.89 | 224.88 | 224.88 | 224.96 | 224.92 |
| 30 | 224.75 | --- | 224.99 | 224.89 | 224.88 | 224.86 | 224.83 | 224.84 | 224.85 | --- ^a | 224.85 | 224.70 |
| 31 | 224.73 | --- | 224.91 | --- | 224.89 | --- | 224.87 | 224.84 | --- | --- ^a | --- | 224.78 |
| Max | 224.97 | 224.99 | 224.99 | 224.97 | 224.99 | 224.94 | 224.91 | 224.93 | 224.96 | 225.01 | 225.00 | 225.06 |
| Min | 224.73 | 224.75 | 224.66 | 224.72 | 224.71 | 224.78 | 224.79 | 224.82 | 224.73 | 224.72 | 224.66 | 224.62 |

Year 2016 Statistics: Year Max 225.06; Year Min 224.62

Note: Water level in ft bgs

^aData logger malfunction. Data currently unavailable.

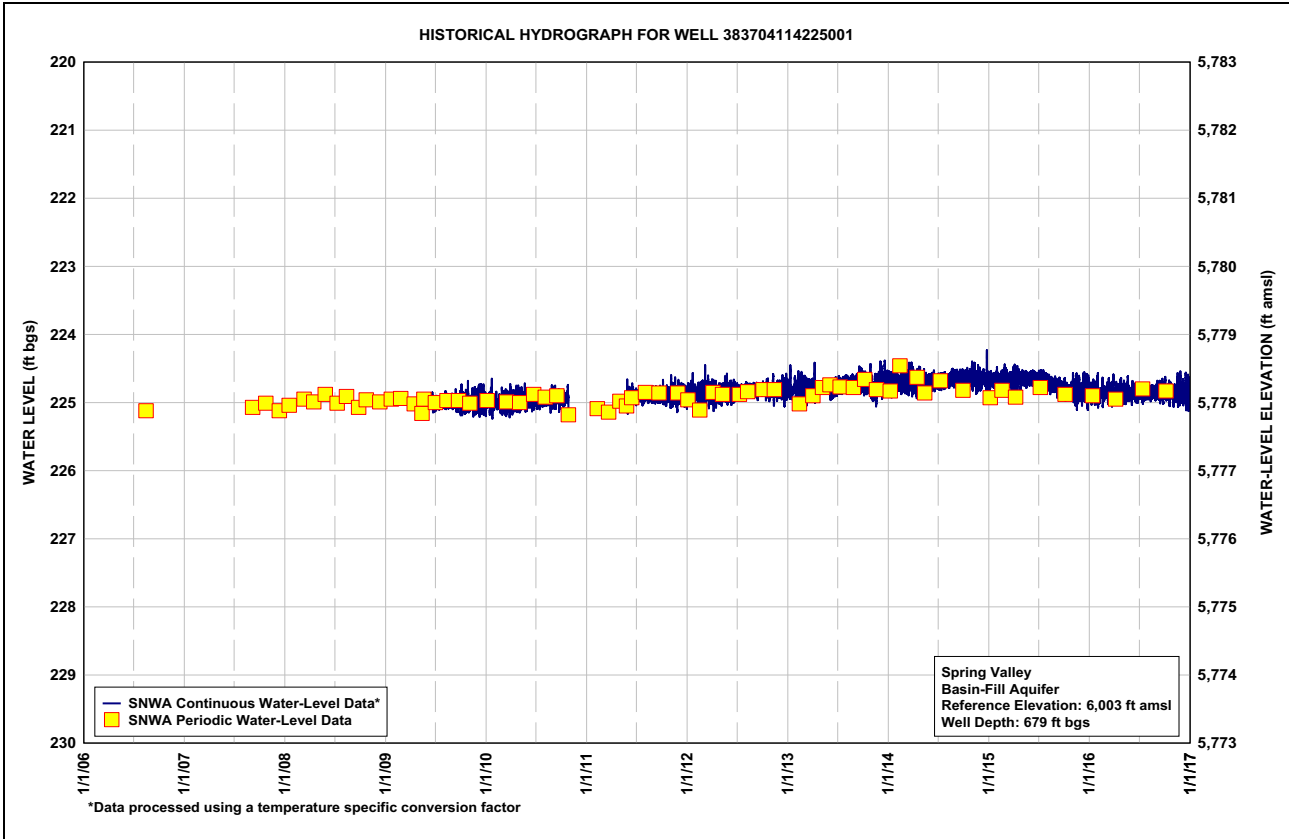
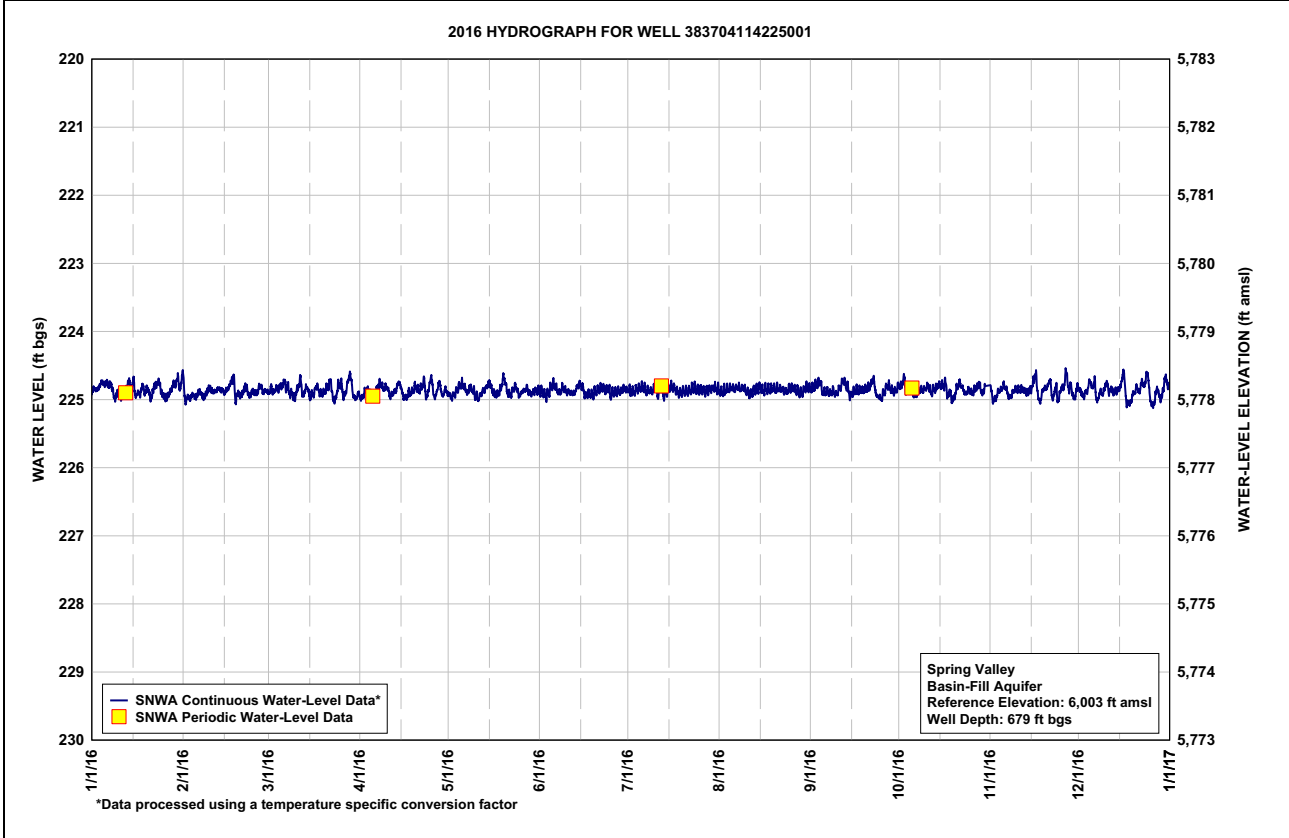




Table B-2
Spring Valley Well 384112114091101, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 360.30 | 360.35 | 360.56 | 360.71 | 360.67 | 360.28 | 359.67 | 359.47 | 359.46 | 359.54 | 359.70 | 359.88 |
| 2 | 360.30 | 360.42 | 360.56 | 360.70 | 360.70 | 360.27 | 359.66 | 359.48 | 359.43 | 359.48 | 359.80 | 359.92 |
| 3 | 360.28 | 360.47 | 360.54 | 360.68 | 360.70 | 360.27 | 359.65 | 359.45 | 359.40 | 359.54 | 359.80 | 359.94 |
| 4 | 360.23 | 360.47 | 360.55 | 360.69 | 360.65 | 360.23 | 359.63 | 359.45 | 359.39 | 359.54 | 359.78 | 359.86 |
| 5 | 360.22 | 360.52 | 360.52 | 360.73 | 360.61 | 360.16 | 359.60 | 359.43 | 359.45 | 359.57 | 359.75 | 359.87 |
| 6 | 360.20 | 360.49 | 360.47 | 360.74 | 360.60 | 360.11 | 359.59 | 359.43 | 359.48 | 359.61 | 359.76 | 359.85 |
| 7 | 360.21 | 360.53 | 360.50 | 360.68 | 360.61 | 360.12 | 359.60 | 359.41 | 359.50 | 359.63 | 359.82 | 359.97 |
| 8 | 360.28 | 360.54 | 360.55 | 360.64 | 360.58 | 360.07 | 359.59 | 359.41 | 359.50 | 359.61 | 359.83 | 359.97 |
| 9 | 360.31 | 360.51 | 360.59 | 360.62 | 360.58 | 360.04 | 359.56 | 359.40 | 359.54 | 359.62 | 359.81 | 359.97 |
| 10 | 360.34 | 360.50 | 360.57 | 360.63 | 360.65 | 360.02 | 359.52 | 359.44 | 359.52 | 359.59 | 359.81 | 359.90 |
| 11 | 360.38 | 360.50 | 360.52 | 360.68 | 360.67 | 360.01 | 359.57 | 359.47 | 359.48 | 359.60 | 359.81 | 359.94 |
| 12 | 360.35 | 360.49 | 360.56 | 360.68 | 360.65 | 360.01 | 359.55 | 359.48 | 359.44 | 359.64 | 359.80 | 359.94 |
| 13 | 360.28 | 360.48 | 360.56 | 360.65 | 360.60 | 359.95 | 359.58 | 359.47 | 359.46 | 359.61 | 359.83 | 359.96 |
| 14 | 360.29 | 360.48 | 360.55 | 360.60 | 360.52 | 359.88 | 359.56 | 359.44 | 359.52 | 359.58 | 359.82 | 359.96 |
| 15 | 360.31 | 360.50 | 360.63 | 360.65 | 360.51 | 359.86 | 359.51 | 359.44 | 359.53 | 359.57 | 359.76 | 359.90 |
| 16 | 360.34 | 360.47 | 360.62 | 360.70 | 360.54 | 359.89 | 359.49 | 359.45 | 359.53 | 359.54 | 359.70 | 359.83 |
| 17 | 360.36 | 360.40 | 360.59 | 360.72 | 360.54 | 359.89 | 359.51 | 359.45 | 359.54 | 359.62 | 359.83 | 360.02 |
| 18 | 360.33 | 360.43 | 360.63 | 360.72 | 360.52 | 359.88 | 359.52 | 359.45 | 359.54 | 359.64 | 359.85 | 360.09 |
| 19 | 360.37 | 360.48 | 360.65 | 360.69 | 360.41 | 359.87 | 359.53 | 359.44 | 359.53 | 359.73 | 359.81 | 360.07 |
| 20 | 360.39 | 360.52 | 360.62 | 360.67 | 360.38 | 359.84 | 359.53 | 359.44 | 359.53 | 359.69 | 359.79 | 360.05 |
| 21 | 360.42 | 360.53 | 360.58 | 360.66 | 360.41 | 359.80 | 359.52 | 359.44 | 359.48 | 359.64 | 359.75 | 360.06 |
| 22 | 360.37 | 360.50 | 360.58 | 360.61 | 360.42 | 359.77 | 359.51 | 359.44 | 359.46 | 359.64 | 359.87 | 360.00 |
| 23 | 360.31 | 360.56 | 360.67 | 360.66 | 360.37 | 359.76 | 359.50 | 359.46 | 359.54 | 359.68 | 359.83 | 359.96 |
| 24 | 360.35 | 360.55 | 360.62 | 360.62 | 360.37 | 359.74 | 359.48 | 359.46 | 359.60 | 359.68 | 359.92 | 359.87 |
| 25 | 360.42 | 360.56 | 360.60 | 360.55 | 360.39 | 359.77 | 359.49 | 359.45 | 359.63 | 359.71 | 359.88 | 360.03 |
| 26 | 360.47 | 360.55 | 360.66 | 360.65 | 360.36 | 359.75 | 359.48 | 359.45 | 359.60 | 359.71 | 359.75 | 360.12 |
| 27 | 360.45 | 360.52 | 360.62 | 360.60 | 360.33 | 359.72 | 359.48 | 359.46 | 359.57 | 359.68 | 359.78 | 360.08 |
| 28 | 360.39 | 360.55 | 360.52 | 360.60 | 360.34 | 359.72 | 359.48 | 359.48 | 359.58 | 359.66 | 359.78 | 360.11 |
| 29 | 360.36 | 360.55 | 360.55 | 360.63 | 360.32 | 359.69 | 359.46 | 359.49 | 359.60 | 359.71 | 359.88 | 360.13 |
| 30 | 360.34 | --- | 360.65 | 360.63 | 360.30 | 359.67 | 359.45 | 359.47 | 359.58 | 359.66 | 359.85 | 360.02 |
| 31 | 360.27 | --- | 360.65 | --- | 360.29 | --- | 359.45 | 359.46 | --- | 359.69 | --- | 360.02 |
| Max | 360.47 | 360.56 | 360.67 | 360.74 | 360.70 | 360.28 | 359.67 | 359.49 | 359.63 | 359.73 | 359.92 | 360.13 |
| Min | 360.20 | 360.35 | 360.47 | 360.55 | 360.29 | 359.67 | 359.45 | 359.40 | 359.39 | 359.48 | 359.70 | 359.83 |

Year 2016 Statistics: Year Max 360.74; Year Min 359.39

Note: Water level in ft bgs

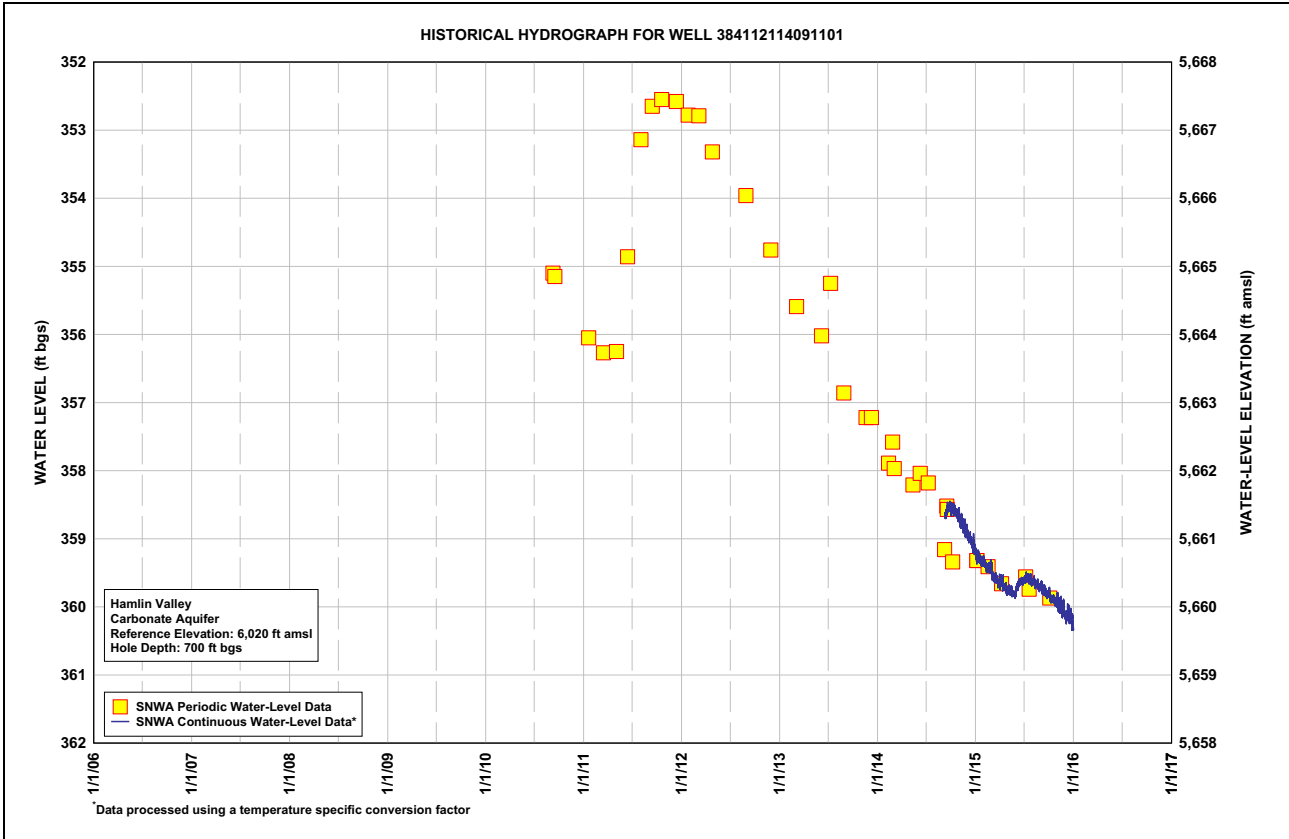
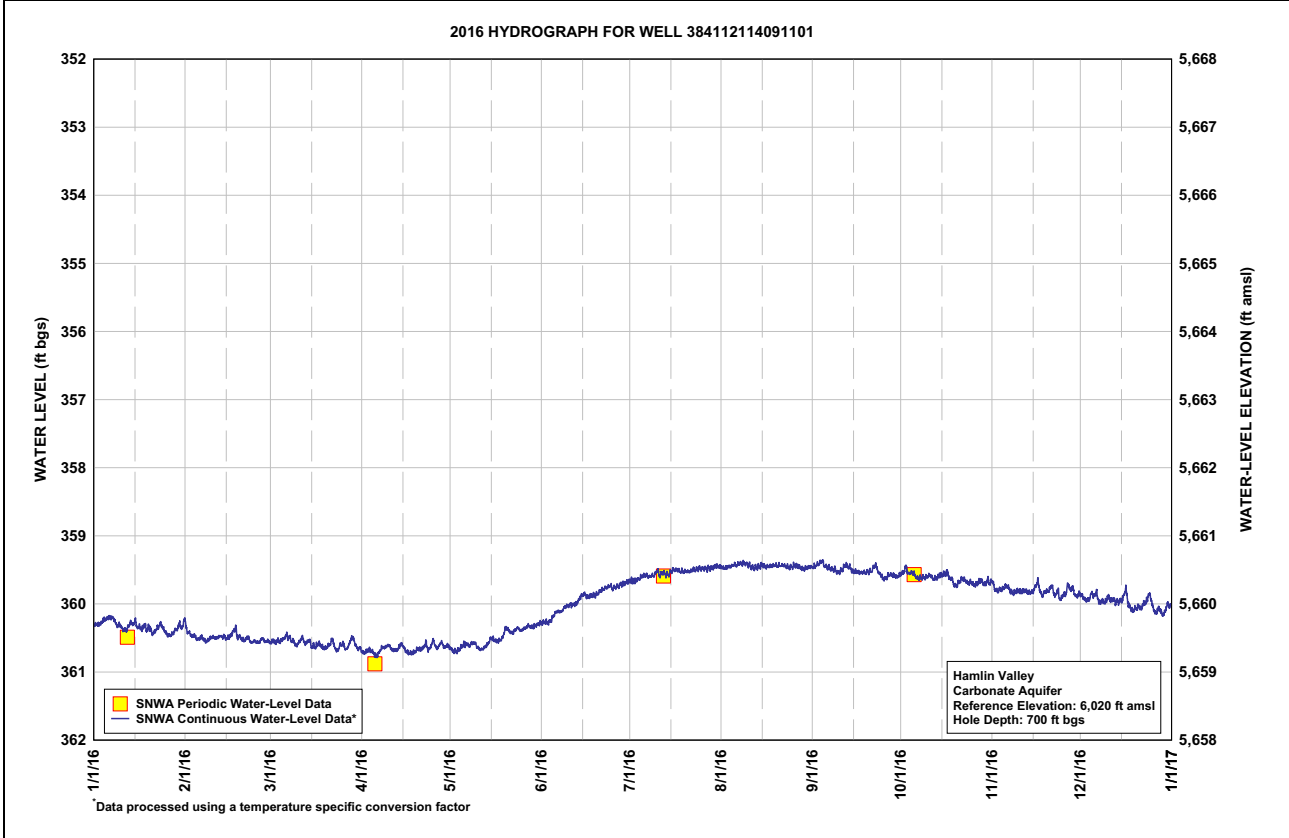


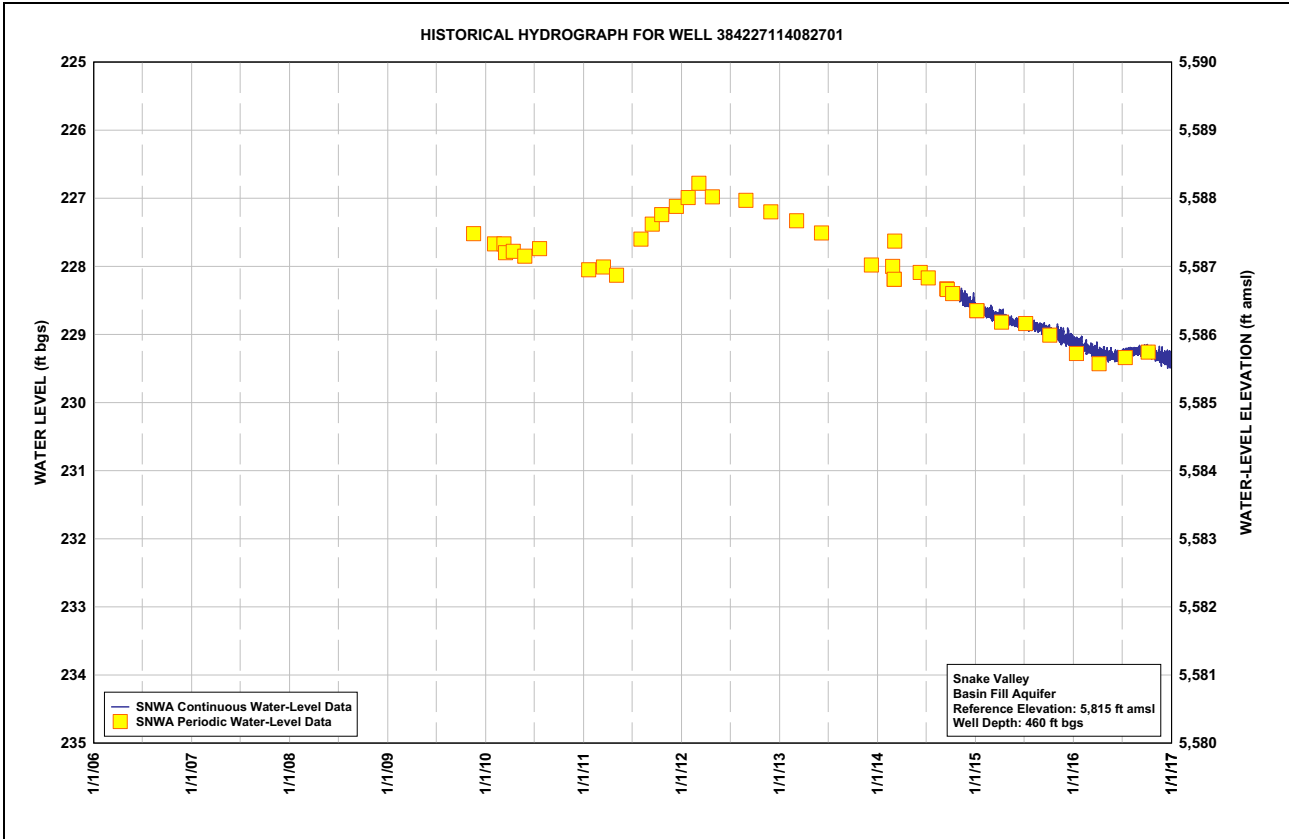
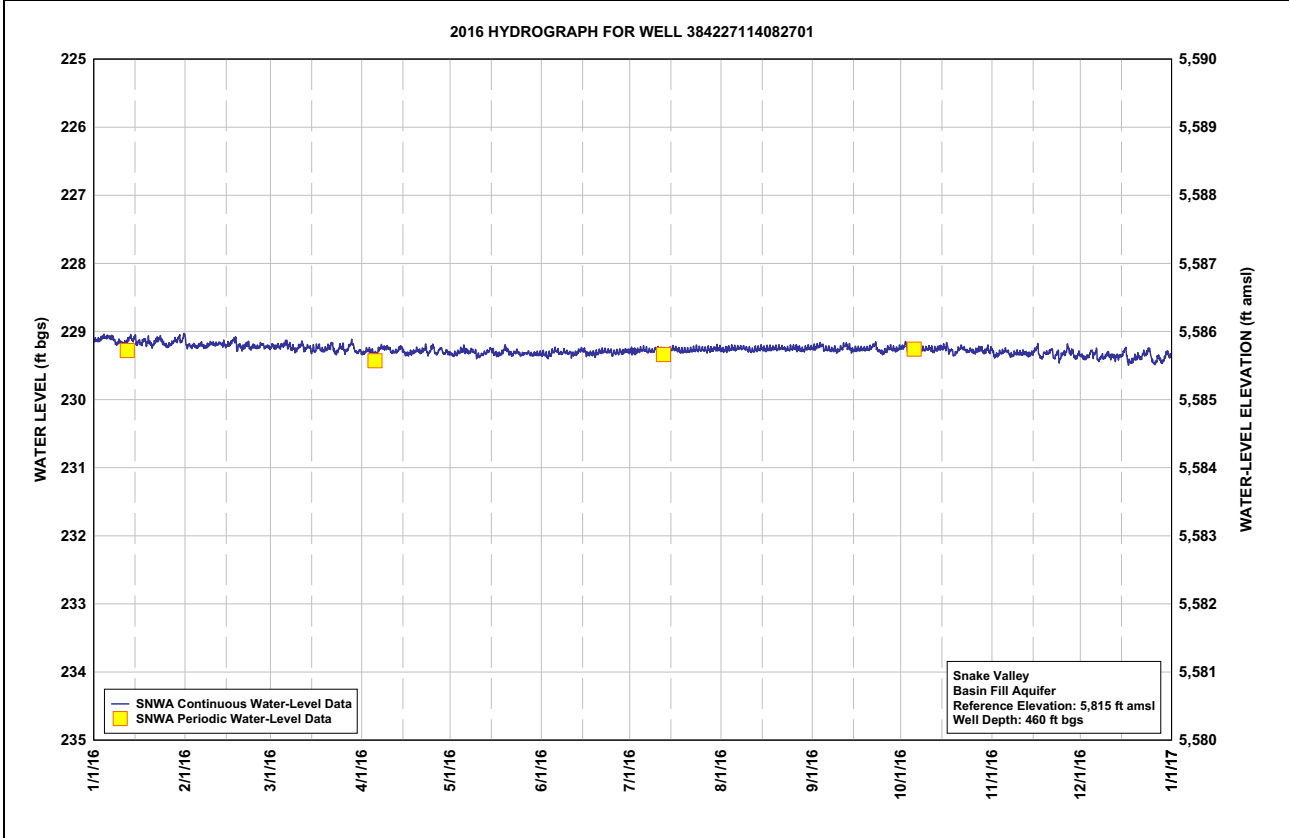


Table B-3
Spring Valley Well 384227114082701, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 229.14 | 229.20 | 229.22 | 229.31 | 229.33 | 229.33 | 229.29 | 229.27 | 229.25 | 229.24 | 229.31 | 229.35 |
| 2 | 229.13 | 229.20 | 229.24 | 229.29 | 229.34 | 229.34 | 229.30 | 229.28 | 229.23 | 229.18 | 229.35 | 229.39 |
| 3 | 229.11 | 229.21 | 229.22 | 229.27 | 229.32 | 229.36 | 229.29 | 229.26 | 229.22 | 229.26 | 229.32 | 229.36 |
| 4 | 229.08 | 229.22 | 229.22 | 229.29 | 229.30 | 229.31 | 229.28 | 229.26 | 229.21 | 229.24 | 229.31 | 229.30 |
| 5 | 229.09 | 229.22 | 229.20 | 229.32 | 229.27 | 229.29 | 229.27 | 229.24 | 229.27 | 229.26 | 229.29 | 229.33 |
| 6 | 229.09 | 229.19 | 229.17 | 229.29 | 229.28 | 229.29 | 229.27 | 229.25 | 229.27 | 229.29 | 229.30 | 229.31 |
| 7 | 229.09 | 229.22 | 229.21 | 229.24 | 229.30 | 229.32 | 229.29 | 229.24 | 229.28 | 229.28 | 229.36 | 229.41 |
| 8 | 229.17 | 229.21 | 229.25 | 229.24 | 229.28 | 229.31 | 229.28 | 229.25 | 229.27 | 229.27 | 229.34 | 229.37 |
| 9 | 229.16 | 229.19 | 229.28 | 229.25 | 229.30 | 229.31 | 229.27 | 229.25 | 229.28 | 229.27 | 229.31 | 229.37 |
| 10 | 229.17 | 229.18 | 229.24 | 229.26 | 229.36 | 229.31 | 229.24 | 229.27 | 229.26 | 229.25 | 229.32 | 229.33 |
| 11 | 229.17 | 229.19 | 229.19 | 229.30 | 229.35 | 229.33 | 229.27 | 229.29 | 229.22 | 229.27 | 229.32 | 229.37 |
| 12 | 229.14 | 229.18 | 229.26 | 229.30 | 229.33 | 229.33 | 229.27 | 229.28 | 229.21 | 229.28 | 229.32 | 229.37 |
| 13 | 229.09 | 229.19 | 229.24 | 229.27 | 229.31 | 229.30 | 229.30 | 229.27 | 229.24 | 229.26 | 229.34 | 229.37 |
| 14 | 229.12 | 229.20 | 229.24 | 229.24 | 229.27 | 229.27 | 229.27 | 229.26 | 229.28 | 229.24 | 229.32 | 229.36 |
| 15 | 229.16 | 229.21 | 229.28 | 229.31 | 229.28 | 229.27 | 229.26 | 229.25 | 229.27 | 229.23 | 229.28 | 229.32 |
| 16 | 229.15 | 229.17 | 229.26 | 229.33 | 229.33 | 229.33 | 229.26 | 229.26 | 229.26 | 229.23 | 229.24 | 229.27 |
| 17 | 229.16 | 229.13 | 229.23 | 229.32 | 229.33 | 229.32 | 229.27 | 229.26 | 229.27 | 229.29 | 229.38 | 229.44 |
| 18 | 229.13 | 229.22 | 229.27 | 229.31 | 229.32 | 229.33 | 229.29 | 229.25 | 229.26 | 229.27 | 229.32 | 229.45 |
| 19 | 229.15 | 229.21 | 229.27 | 229.29 | 229.26 | 229.33 | 229.29 | 229.24 | 229.27 | 229.33 | 229.32 | 229.40 |
| 20 | 229.19 | 229.23 | 229.25 | 229.28 | 229.27 | 229.31 | 229.28 | 229.26 | 229.25 | 229.27 | 229.31 | 229.36 |
| 21 | 229.18 | 229.21 | 229.21 | 229.29 | 229.33 | 229.30 | 229.29 | 229.25 | 229.22 | 229.24 | 229.27 | 229.39 |
| 22 | 229.13 | 229.19 | 229.25 | 229.25 | 229.32 | 229.29 | 229.28 | 229.25 | 229.20 | 229.25 | 229.35 | 229.34 |
| 23 | 229.10 | 229.24 | 229.30 | 229.32 | 229.30 | 229.30 | 229.27 | 229.26 | 229.28 | 229.29 | 229.33 | 229.33 |
| 24 | 229.16 | 229.22 | 229.24 | 229.26 | 229.32 | 229.29 | 229.27 | 229.26 | 229.31 | 229.28 | 229.36 | 229.28 |
| 25 | 229.19 | 229.23 | 229.24 | 229.24 | 229.34 | 229.32 | 229.27 | 229.25 | 229.30 | 229.30 | 229.33 | 229.43 |
| 26 | 229.21 | 229.21 | 229.29 | 229.32 | 229.32 | 229.32 | 229.28 | 229.25 | 229.26 | 229.29 | 229.24 | 229.46 |
| 27 | 229.18 | 229.20 | 229.24 | 229.26 | 229.32 | 229.30 | 229.27 | 229.25 | 229.24 | 229.27 | 229.31 | 229.37 |
| 28 | 229.13 | 229.23 | 229.18 | 229.30 | 229.34 | 229.31 | 229.27 | 229.27 | 229.26 | 229.27 | 229.30 | 229.44 |
| 29 | 229.11 | 229.22 | 229.25 | 229.30 | 229.33 | 229.29 | 229.26 | 229.27 | 229.27 | 229.30 | 229.38 | 229.39 |
| 30 | 229.14 | --- | 229.30 | 229.32 | 229.33 | 229.29 | 229.26 | 229.25 | 229.26 | 229.26 | 229.33 | 229.31 |
| 31 | 229.07 | --- | 229.28 | --- | 229.33 | --- | 229.27 | 229.25 | --- | 229.27 | --- | 229.36 |
| Max | 229.21 | 229.24 | 229.30 | 229.33 | 229.36 | 229.36 | 229.30 | 229.29 | 229.31 | 229.33 | 229.38 | 229.46 |
| Min | 229.07 | 229.13 | 229.17 | 229.24 | 229.26 | 229.27 | 229.24 | 229.24 | 229.20 | 229.18 | 229.24 | 229.27 |

Year 2016 Statistics: Year Max 229.46; Year Min 229.07

Note: Water level in ft bgs



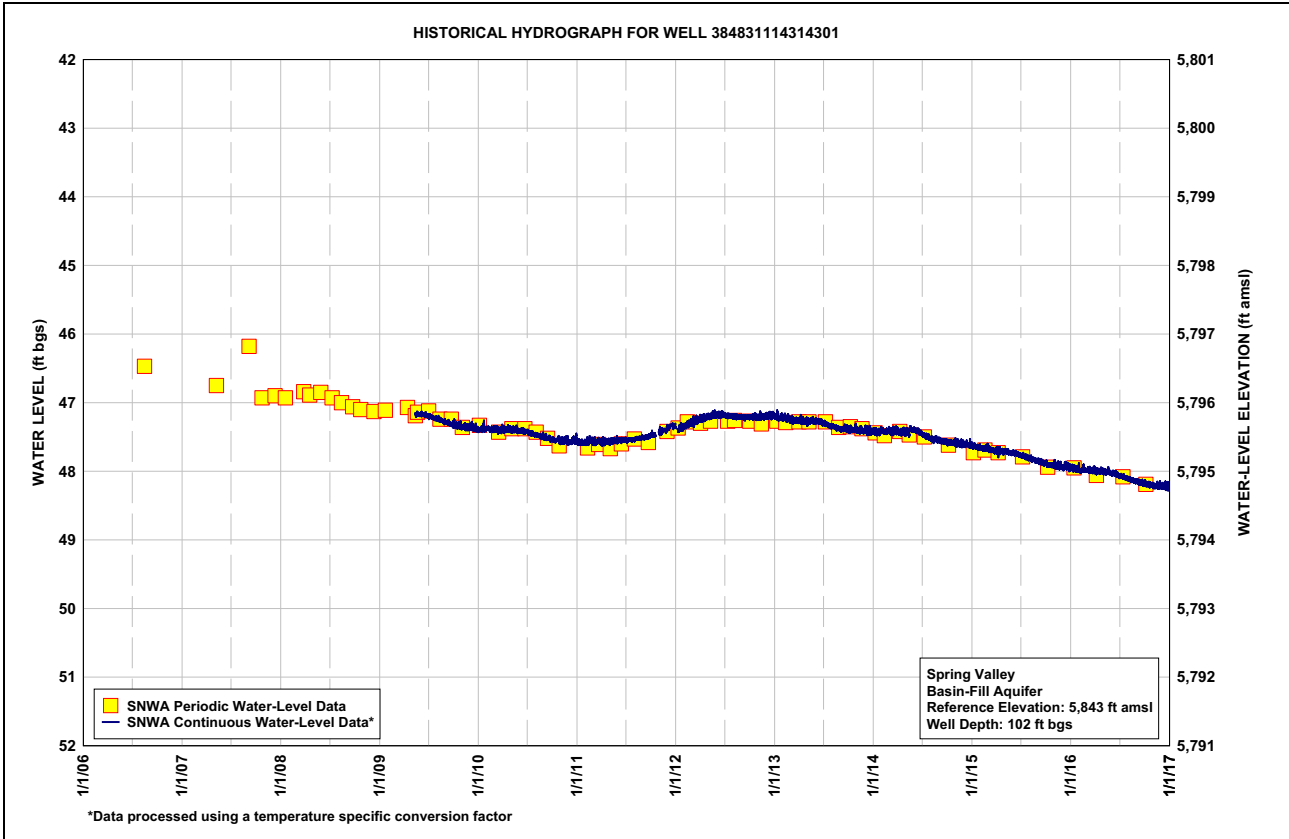
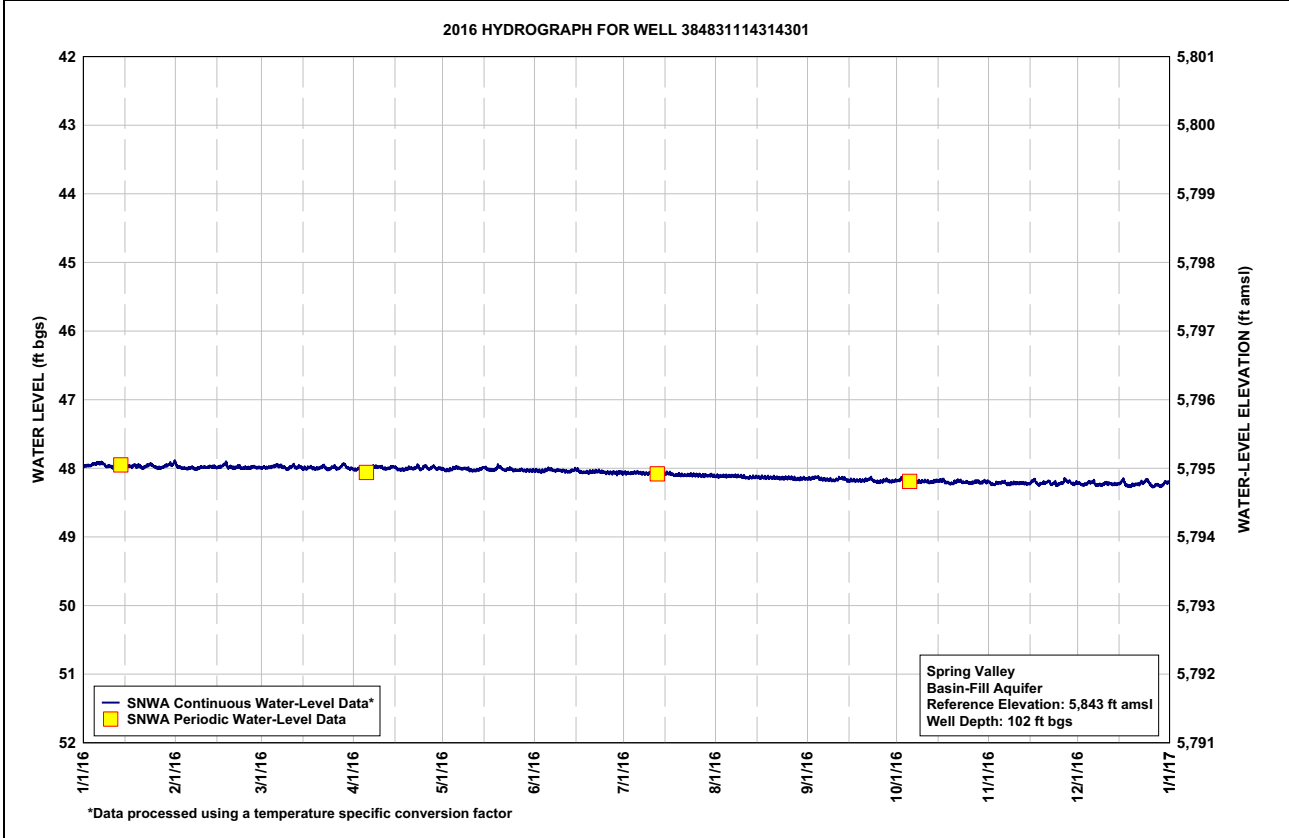


**Table B-4
Spring Valley Well 384831114314301, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 47.97 | 47.97 | 47.99 | 48.02 | 48.02 | 48.03 | 48.07 | 48.12 | 48.15 | 48.18 | 48.21 | 48.22 |
| 2 | 47.96 | 47.98 | 47.99 | 48.01 | 48.03 | 48.04 | 48.07 | 48.12 | 48.14 | 48.15 | 48.23 | 48.24 |
| 3 | 47.95 | 48.00 | 47.99 | 48.01 | 48.03 | 48.05 | 48.08 | 48.11 | 48.14 | 48.18 | 48.23 | 48.24 |
| 4 | 47.94 | 48.00 | 47.98 | 48.01 | 48.01 | 48.04 | 48.06 | 48.12 | 48.14 | 48.18 | 48.21 | 48.21 |
| 5 | 47.93 | 48.01 | 47.97 | 48.02 | 48.00 | 48.02 | 48.07 | 48.12 | 48.17 | 48.19 | 48.20 | 48.21 |
| 6 | 47.93 | 47.99 | 47.96 | 48.02 | 47.99 | 48.02 | 48.07 | 48.11 | 48.17 | 48.21 | 48.21 | 48.20 |
| 7 | 47.93 | 48.01 | 47.97 | 47.99 | 48.01 | 48.04 | 48.08 | 48.12 | 48.17 | 48.20 | 48.23 | 48.24 |
| 8 | 47.96 | 48.01 | 47.99 | 47.99 | 48.00 | 48.03 | 48.08 | 48.11 | 48.17 | 48.20 | 48.22 | 48.24 |
| 9 | 47.98 | 47.99 | 48.01 | 47.98 | 48.01 | 48.03 | 48.07 | 48.12 | 48.18 | 48.19 | 48.22 | 48.24 |
| 10 | 47.98 | 47.99 | 47.99 | 47.98 | 48.03 | 48.04 | 48.06 | 48.13 | 48.17 | 48.19 | 48.21 | 48.21 |
| 11 | 47.99 | 47.99 | 47.96 | 48.01 | 48.03 | 48.05 | 48.08 | 48.13 | 48.15 | 48.20 | 48.22 | 48.22 |
| 12 | 47.97 | 47.98 | 47.99 | 48.00 | 48.03 | 48.05 | 48.08 | 48.14 | 48.14 | 48.20 | 48.22 | 48.23 |
| 13 | 47.95 | 47.99 | 47.98 | 47.99 | 48.02 | 48.04 | 48.09 | 48.13 | 48.15 | 48.20 | 48.23 | 48.24 |
| 14 | 47.95 | 47.98 | 47.99 | 47.98 | 47.99 | 48.02 | 48.09 | 48.13 | 48.18 | 48.19 | 48.22 | 48.23 |
| 15 | 47.96 | 47.99 | 48.01 | 48.00 | 48.00 | 48.02 | 48.08 | 48.13 | 48.18 | 48.18 | 48.20 | 48.21 |
| 16 | 47.97 | 47.97 | 48.00 | 48.02 | 48.02 | 48.05 | 48.08 | 48.14 | 48.18 | 48.18 | 48.18 | 48.19 |
| 17 | 47.97 | 47.95 | 47.99 | 48.02 | 48.03 | 48.06 | 48.10 | 48.14 | 48.18 | 48.20 | 48.23 | 48.25 |
| 18 | 47.96 | 47.96 | 48.00 | 48.02 | 48.03 | 48.06 | 48.10 | 48.14 | 48.18 | 48.21 | 48.23 | 48.26 |
| 19 | 47.97 | 47.98 | 48.01 | 48.01 | 47.99 | 48.07 | 48.10 | 48.14 | 48.18 | 48.23 | 48.22 | 48.25 |
| 20 | 47.98 | 47.99 | 48.00 | 48.01 | 47.99 | 48.06 | 48.10 | 48.14 | 48.18 | 48.21 | 48.20 | 48.23 |
| 21 | 47.99 | 47.99 | 47.97 | 48.00 | 48.02 | 48.05 | 48.11 | 48.14 | 48.16 | 48.19 | 48.19 | 48.24 |
| 22 | 47.96 | 47.98 | 47.99 | 47.98 | 48.02 | 48.04 | 48.10 | 48.15 | 48.16 | 48.19 | 48.23 | 48.22 |
| 23 | 47.95 | 48.00 | 48.02 | 48.01 | 48.01 | 48.05 | 48.09 | 48.15 | 48.19 | 48.21 | 48.22 | 48.20 |
| 24 | 47.96 | 47.99 | 47.99 | 47.99 | 48.02 | 48.06 | 48.10 | 48.14 | 48.20 | 48.20 | 48.23 | 48.17 |
| 25 | 47.99 | 48.00 | 47.99 | 47.97 | 48.04 | 48.07 | 48.10 | 48.14 | 48.20 | 48.21 | 48.23 | 48.24 |
| 26 | 48.00 | 47.99 | 48.01 | 48.01 | 48.03 | 48.07 | 48.11 | 48.15 | 48.19 | 48.21 | 48.18 | 48.27 |
| 27 | 47.99 | 47.98 | 47.99 | 47.99 | 48.02 | 48.06 | 48.11 | 48.15 | 48.18 | 48.20 | 48.19 | 48.24 |
| 28 | 47.97 | 47.99 | 47.95 | 47.99 | 48.04 | 48.07 | 48.11 | 48.16 | 48.19 | 48.20 | 48.20 | 48.26 |
| 29 | 47.95 | 47.99 | 47.98 | 48.00 | 48.03 | 48.06 | 48.11 | 48.16 | 48.20 | 48.22 | 48.23 | 48.25 |
| 30 | 47.95 | --- | 48.00 | 48.01 | 48.04 | 48.07 | 48.10 | 48.15 | 48.19 | 48.19 | 48.21 | 48.21 |
| 31 | 47.92 | --- | 48.01 | --- | 48.04 | --- | 48.12 | 48.16 | --- | 48.20 | --- | 48.21 |
| Max | 48.00 | 48.01 | 48.02 | 48.02 | 48.04 | 48.07 | 48.12 | 48.16 | 48.20 | 48.23 | 48.23 | 48.27 |
| Min | 47.92 | 47.95 | 47.95 | 47.97 | 47.99 | 48.02 | 48.06 | 48.11 | 48.14 | 48.15 | 48.18 | 48.17 |

Year 2016 Statistics: Year Max 48.27; Year Min 47.92

Note: Water level in ft bgs



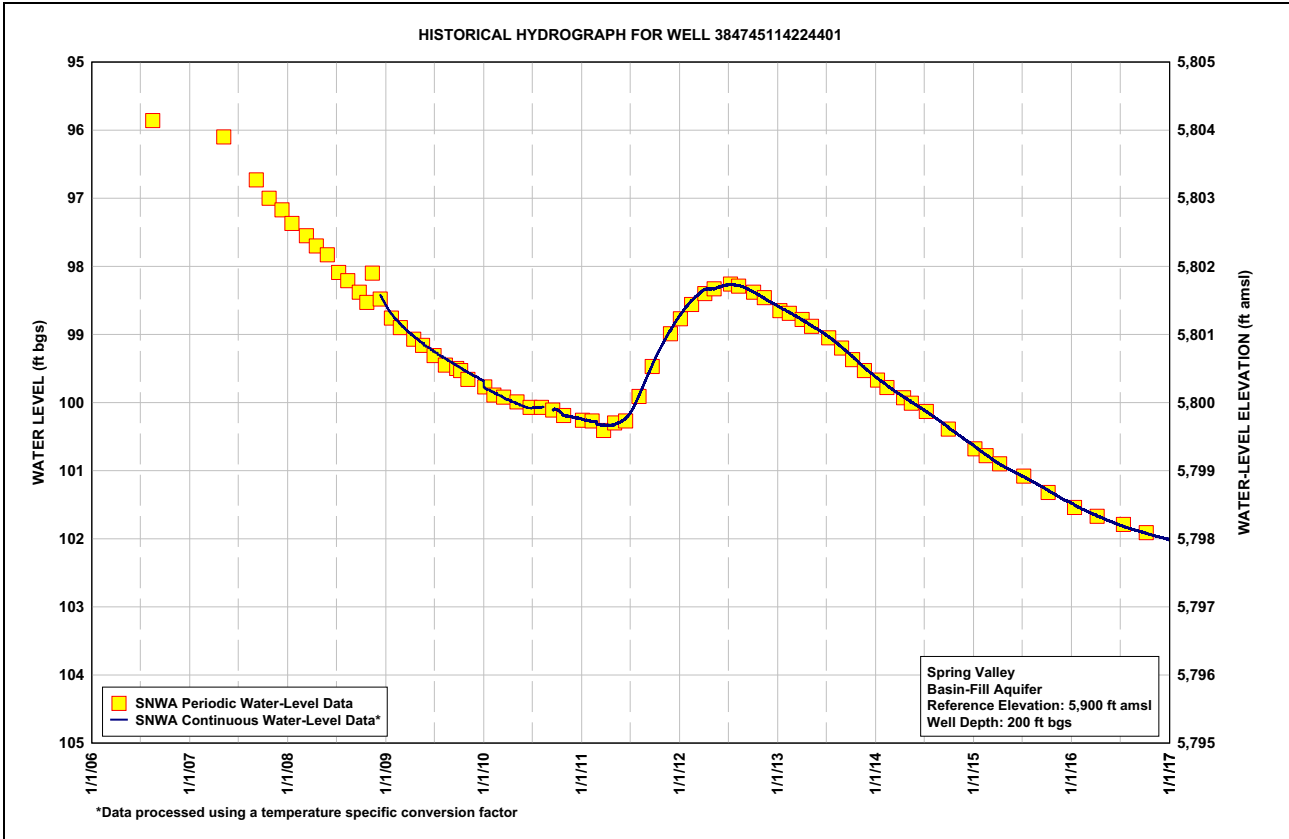
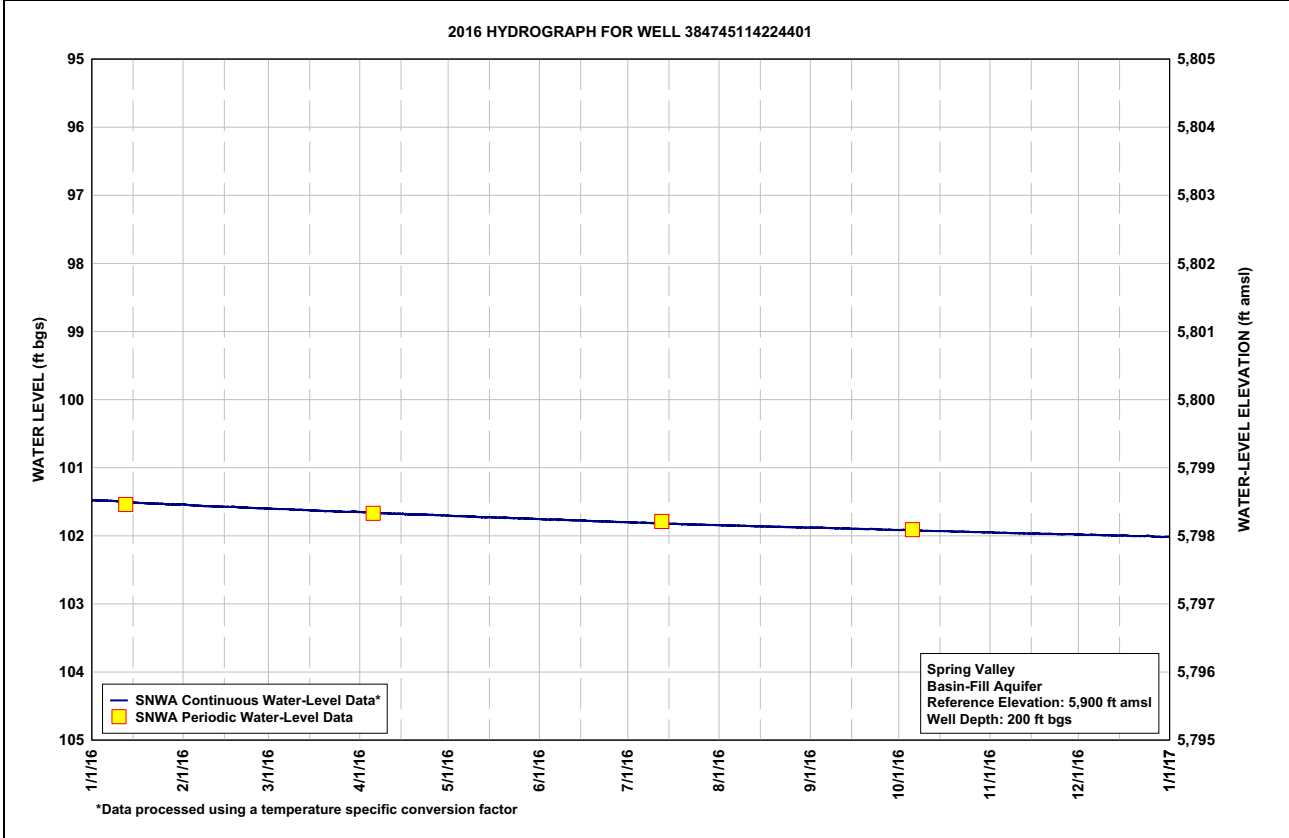


**Table B-5
Spring Valley Well 384745114224401, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 101.48 | 101.54 | 101.60 | 101.65 | 101.71 | 101.76 | 101.80 | 101.85 | 101.88 | 101.91 | 101.95 | 101.98 |
| 2 | 101.48 | 101.55 | 101.60 | 101.65 | 101.71 | 101.76 | 101.80 | 101.85 | 101.88 | 101.91 | 101.95 | 101.98 |
| 3 | 101.48 | 101.55 | 101.61 | 101.66 | 101.71 | 101.76 | 101.81 | 101.85 | 101.88 | 101.91 | 101.95 | 101.99 |
| 4 | 101.48 | 101.55 | 101.61 | 101.66 | 101.71 | 101.76 | 101.81 | 101.85 | 101.88 | 101.92 | 101.96 | 101.99 |
| 5 | 101.48 | 101.56 | 101.61 | 101.67 | 101.71 | 101.76 | 101.81 | 101.85 | 101.88 | 101.92 | 101.96 | 101.98 |
| 6 | 101.49 | 101.56 | 101.61 | 101.67 | 101.71 | 101.76 | 101.81 | 101.85 | 101.88 | 101.92 | 101.96 | 101.99 |
| 7 | 101.49 | 101.56 | 101.61 | 101.67 | 101.71 | 101.76 | 101.81 | 101.85 | 101.89 | 101.92 | 101.96 | 101.99 |
| 8 | 101.49 | 101.56 | 101.61 | 101.67 | 101.72 | 101.76 | 101.81 | 101.85 | 101.89 | 101.93 | 101.96 | 101.99 |
| 9 | 101.49 | 101.56 | 101.61 | 101.67 | 101.72 | 101.77 | 101.81 | 101.85 | 101.89 | 101.93 | 101.96 | 101.99 |
| 10 | 101.50 | 101.57 | 101.62 | 101.67 | 101.72 | 101.77 | 101.81 | 101.85 | 101.89 | 101.93 | 101.96 | 101.99 |
| 11 | 101.50 | 101.57 | 101.62 | 101.67 | 101.73 | 101.77 | 101.82 | 101.86 | 101.89 | 101.93 | 101.96 | 101.99 |
| 12 | 101.51 | 101.57 | 101.62 | 101.67 | 101.73 | 101.77 | 101.82 | 101.86 | 101.89 | 101.93 | 101.97 | 101.99 |
| 13 | 101.51 | 101.57 | 101.62 | 101.68 | 101.73 | 101.77 | 101.82 | 101.86 | 101.89 | 101.93 | 101.97 | 102.00 |
| 14 | 101.51 | 101.57 | 101.62 | 101.68 | 101.73 | 101.77 | 101.82 | 101.86 | 101.89 | 101.93 | 101.97 | 102.00 |
| 15 | 101.51 | 101.58 | 101.63 | 101.68 | 101.73 | 101.77 | 101.82 | 101.86 | 101.90 | 101.93 | 101.97 | 102.00 |
| 16 | 101.52 | 101.58 | 101.63 | 101.68 | 101.73 | 101.78 | 101.82 | 101.86 | 101.90 | 101.93 | 101.96 | 101.99 |
| 17 | 101.52 | 101.58 | 101.63 | 101.68 | 101.73 | 101.78 | 101.82 | 101.86 | 101.90 | 101.93 | 101.97 | 102.00 |
| 18 | 101.52 | 101.58 | 101.63 | 101.69 | 101.73 | 101.78 | 101.83 | 101.87 | 101.90 | 101.94 | 101.97 | 102.00 |
| 19 | 101.52 | 101.58 | 101.64 | 101.69 | 101.73 | 101.79 | 101.83 | 101.87 | 101.90 | 101.94 | 101.97 | 102.00 |
| 20 | 101.52 | 101.58 | 101.64 | 101.69 | 101.73 | 101.79 | 101.83 | 101.87 | 101.90 | 101.94 | 101.97 | 102.00 |
| 21 | 101.53 | 101.58 | 101.64 | 101.69 | 101.74 | 101.79 | 101.83 | 101.87 | 101.90 | 101.94 | 101.97 | 102.00 |
| 22 | 101.53 | 101.58 | 101.64 | 101.69 | 101.74 | 101.79 | 101.83 | 101.87 | 101.90 | 101.94 | 101.97 | 102.00 |
| 23 | 101.53 | 101.59 | 101.64 | 101.69 | 101.74 | 101.79 | 101.83 | 101.87 | 101.90 | 101.94 | 101.97 | 102.00 |
| 24 | 101.53 | 101.59 | 101.64 | 101.69 | 101.74 | 101.79 | 101.83 | 101.87 | 101.91 | 101.94 | 101.98 | 102.00 |
| 25 | 101.53 | 101.59 | 101.64 | 101.69 | 101.74 | 101.79 | 101.84 | 101.87 | 101.91 | 101.94 | 101.98 | 102.00 |
| 26 | 101.54 | 101.59 | 101.65 | 101.70 | 101.74 | 101.79 | 101.84 | 101.87 | 101.91 | 101.94 | 101.98 | 102.01 |
| 27 | 101.54 | 101.60 | 101.65 | 101.70 | 101.74 | 101.80 | 101.84 | 101.88 | 101.91 | 101.95 | 101.97 | 102.01 |
| 28 | 101.54 | 101.60 | 101.65 | 101.70 | 101.75 | 101.80 | 101.84 | 101.88 | 101.91 | 101.94 | 101.97 | 102.02 |
| 29 | 101.54 | 101.60 | 101.64 | 101.70 | 101.75 | 101.80 | 101.84 | 101.88 | 101.91 | 101.95 | 101.98 | 102.02 |
| 30 | 101.54 | --- | 101.64 | 101.70 | 101.75 | 101.80 | 101.84 | 101.88 | 101.91 | 101.95 | 101.98 | 102.02 |
| 31 | 101.54 | --- | 101.65 | --- | 101.75 | --- | 101.84 | 101.88 | --- | 101.95 | --- | 102.01 |
| Max | 101.54 | 101.60 | 101.65 | 101.70 | 101.75 | 101.80 | 101.84 | 101.88 | 101.91 | 101.95 | 101.98 | 102.02 |
| Min | 101.48 | 101.54 | 101.60 | 101.65 | 101.71 | 101.76 | 101.80 | 101.85 | 101.88 | 101.91 | 101.95 | 101.98 |

Year 2016 Statistics: Year Max 102.02; Year Min 101.48

Note: Water level in ft bgs





**Table B-6
Spring Valley Well 390803114251001, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 40.70 | 40.73 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.84 | 40.87 | 40.90 | 40.94 | 40.98 |
| 2 | 40.69 | 40.73 | 40.75 | 40.77 | 40.78 | 40.79 | 40.81 | 40.84 | 40.87 | 40.90 | 40.94 | 40.98 |
| 3 | 40.70 | 40.73 | 40.75 | 40.76 | 40.78 | 40.80 | 40.81 | 40.84 | 40.87 | 40.91 | 40.95 | 40.98 |
| 4 | 40.70 | 40.73 | 40.75 | 40.77 | 40.79 | 40.80 | 40.81 | 40.84 | 40.87 | 40.91 | 40.95 | 40.98 |
| 5 | 40.70 | 40.73 | 40.75 | 40.77 | 40.79 | 40.80 | 40.81 | 40.84 | 40.87 | 40.91 | 40.95 | 40.99 |
| 6 | 40.70 | 40.73 | 40.75 | 40.77 | 40.78 | 40.80 | 40.82 | 40.84 | 40.88 | 40.91 | 40.95 | 40.98 |
| 7 | 40.70 | 40.73 | 40.75 | 40.77 | 40.78 | 40.80 | 40.82 | 40.85 | 40.87 | 40.91 | 40.95 | 40.98 |
| 8 | 40.70 | 40.73 | 40.75 | 40.77 | 40.78 | 40.80 | 40.80 | 40.85 | 40.87 | 40.92 | 40.95 | 40.99 |
| 9 | 40.70 | 40.73 | 40.75 | 40.77 | 40.78 | 40.80 | 40.81 | 40.85 | 40.88 | 40.91 | 40.95 | 40.99 |
| 10 | 40.71 | 40.74 | 40.75 | 40.77 | 40.79 | 40.80 | 40.82 | 40.85 | 40.88 | 40.92 | 40.95 | 40.99 |
| 11 | 40.71 | 40.73 | 40.75 | 40.77 | 40.79 | 40.80 | 40.82 | 40.85 | 40.88 | 40.91 | 40.95 | 40.99 |
| 12 | 40.70 | 40.74 | 40.75 | 40.77 | 40.78 | 40.80 | 40.82 | 40.85 | 40.88 | 40.92 | 40.95 | 40.99 |
| 13 | 40.71 | 40.74 | 40.75 | 40.78 | 40.79 | 40.80 | 40.82 | 40.85 | 40.88 | 40.92 | 40.96 | 40.99 |
| 14 | 40.71 | 40.74 | 40.75 | 40.77 | 40.79 | 40.80 | 40.82 | 40.85 | 40.89 | 40.92 | 40.96 | 40.99 |
| 15 | 40.71 | 40.74 | 40.75 | 40.77 | 40.79 | 40.80 | 40.83 | 40.85 | 40.89 | 40.92 | 40.96 | 40.99 |
| 16 | 40.71 | 40.74 | 40.76 | 40.78 | 40.79 | 40.80 | 40.82 | 40.85 | 40.89 | 40.92 | 40.96 | 40.99 |
| 17 | 40.71 | 40.74 | 40.76 | 40.77 | 40.79 | 40.80 | 40.82 | 40.86 | 40.89 | 40.92 | 40.96 | 40.99 |
| 18 | 40.71 | 40.74 | 40.76 | 40.78 | 40.79 | 40.80 | 40.83 | 40.85 | 40.89 | 40.93 | 40.96 | 41.00 |
| 19 | 40.71 | 40.74 | 40.76 | 40.78 | 40.79 | 40.80 | 40.83 | 40.86 | 40.89 | 40.93 | 40.96 | 41.00 |
| 20 | 40.71 | 40.74 | 40.76 | 40.78 | 40.77 | 40.81 | 40.83 | 40.86 | 40.89 | 40.93 | 40.96 | 41.00 |
| 21 | 40.71 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.83 | 40.86 | 40.89 | 40.93 | 40.96 | 41.00 |
| 22 | 40.71 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.83 | 40.86 | 40.89 | 40.93 | 40.97 | 41.00 |
| 23 | 40.71 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.83 | 40.86 | 40.90 | 40.93 | 40.97 | 41.00 |
| 24 | 40.71 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.83 | 40.86 | 40.90 | 40.93 | 40.97 | 41.00 |
| 25 | 40.72 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.83 | 40.86 | 40.90 | 40.93 | 40.97 | 41.00 |
| 26 | 40.72 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.83 | 40.87 | 40.90 | 40.93 | 40.96 | 41.01 |
| 27 | 40.72 | 40.75 | 40.75 | 40.78 | 40.79 | 40.81 | 40.84 | 40.87 | 40.90 | 40.94 | 40.97 | 41.01 |
| 28 | 40.72 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.84 | 40.87 | 40.90 | 40.94 | 40.97 | 41.01 |
| 29 | 40.72 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.83 | 40.87 | 40.90 | 40.94 | 40.98 | 41.01 |
| 30 | 40.72 | --- | 40.76 | 40.78 | 40.79 | 40.81 | 40.84 | 40.87 | 40.90 | 40.94 | 40.98 | 41.01 |
| 31 | 40.72 | --- | 40.76 | --- | 40.79 | --- | 40.84 | 40.87 | --- | 40.94 | --- | 41.01 |
| Max | 40.72 | 40.75 | 40.76 | 40.78 | 40.79 | 40.81 | 40.84 | 40.87 | 40.90 | 40.94 | 40.98 | 41.01 |
| Min | 40.69 | 40.73 | 40.75 | 40.76 | 40.77 | 40.79 | 40.80 | 40.84 | 40.87 | 40.90 | 40.94 | 40.98 |

Year 2016 Statistics: Year Max 41.01; Year Min 40.69

Note: Water level in ft bgs

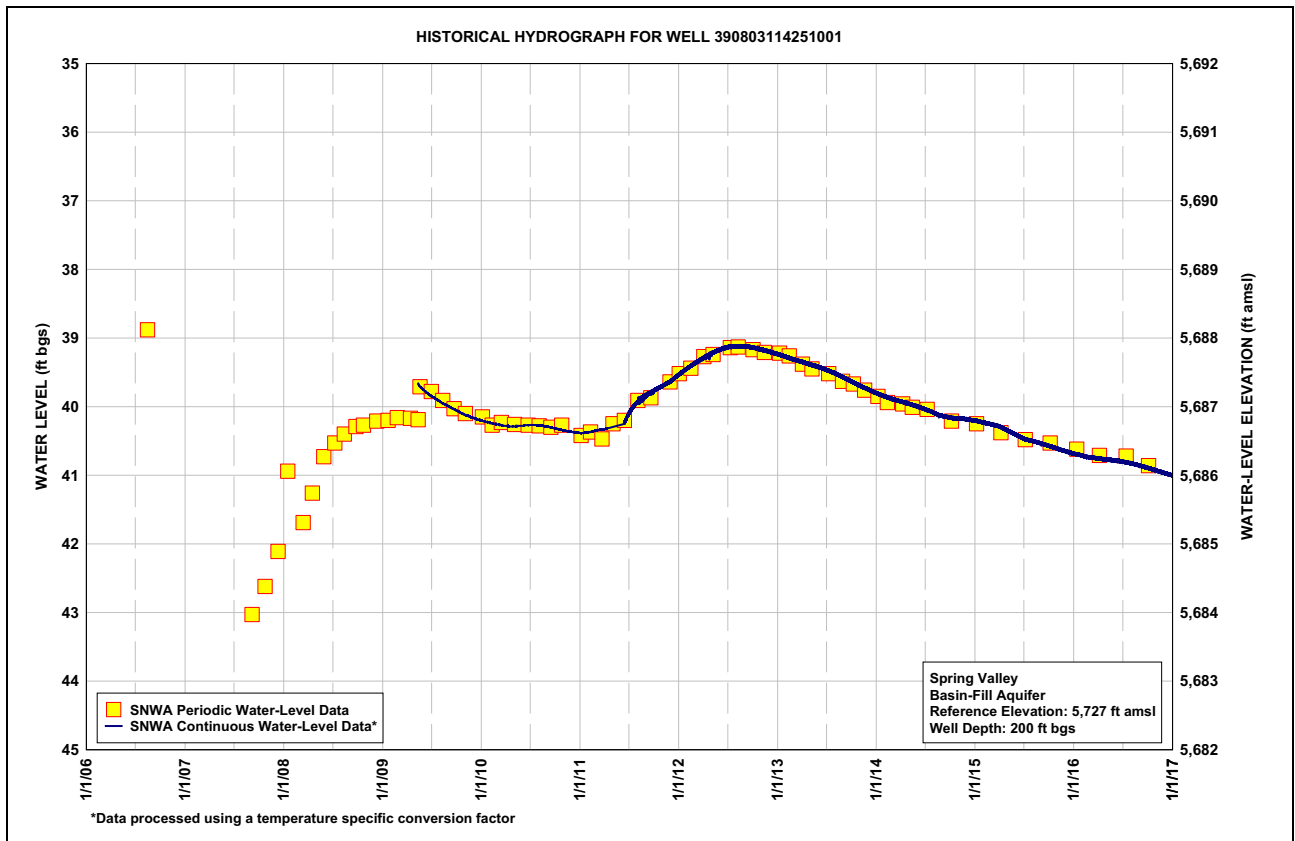
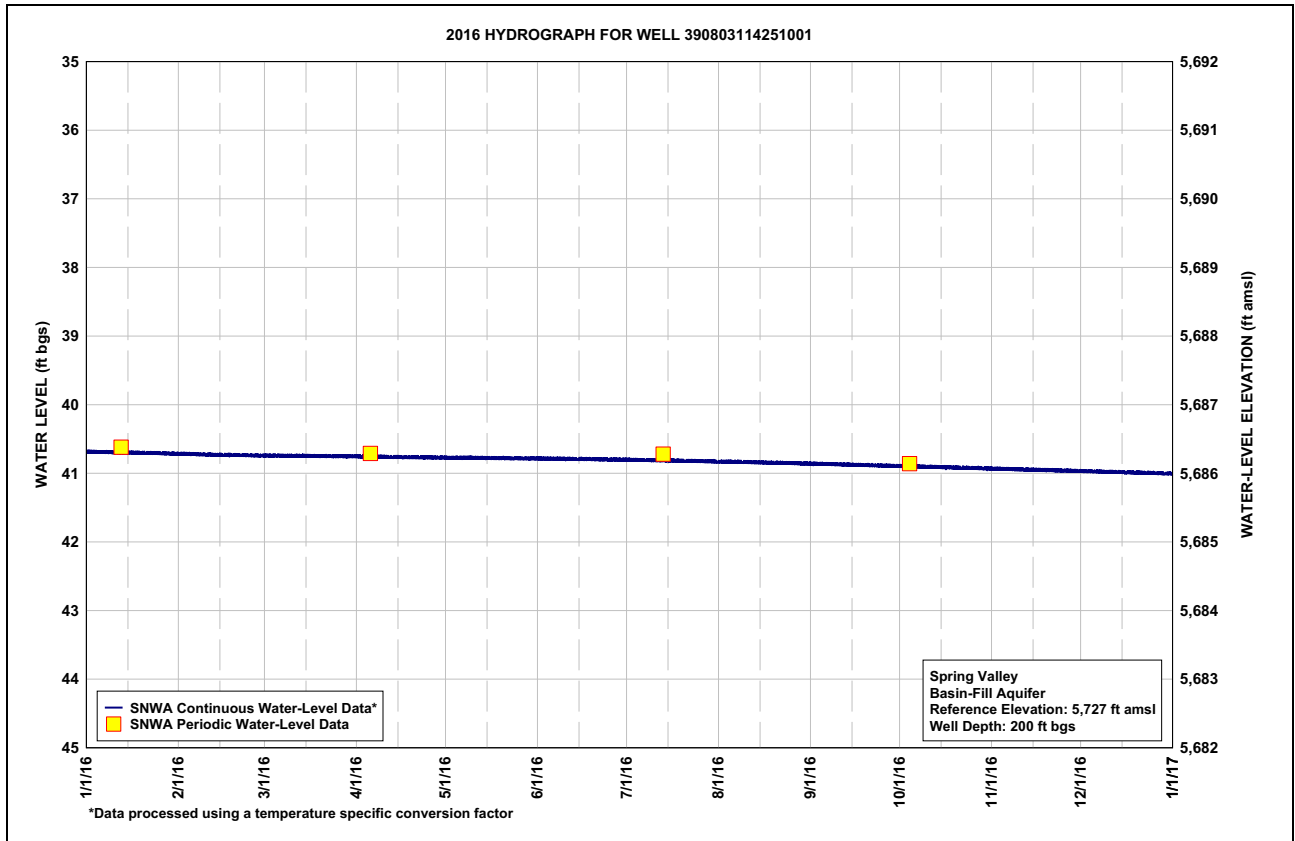


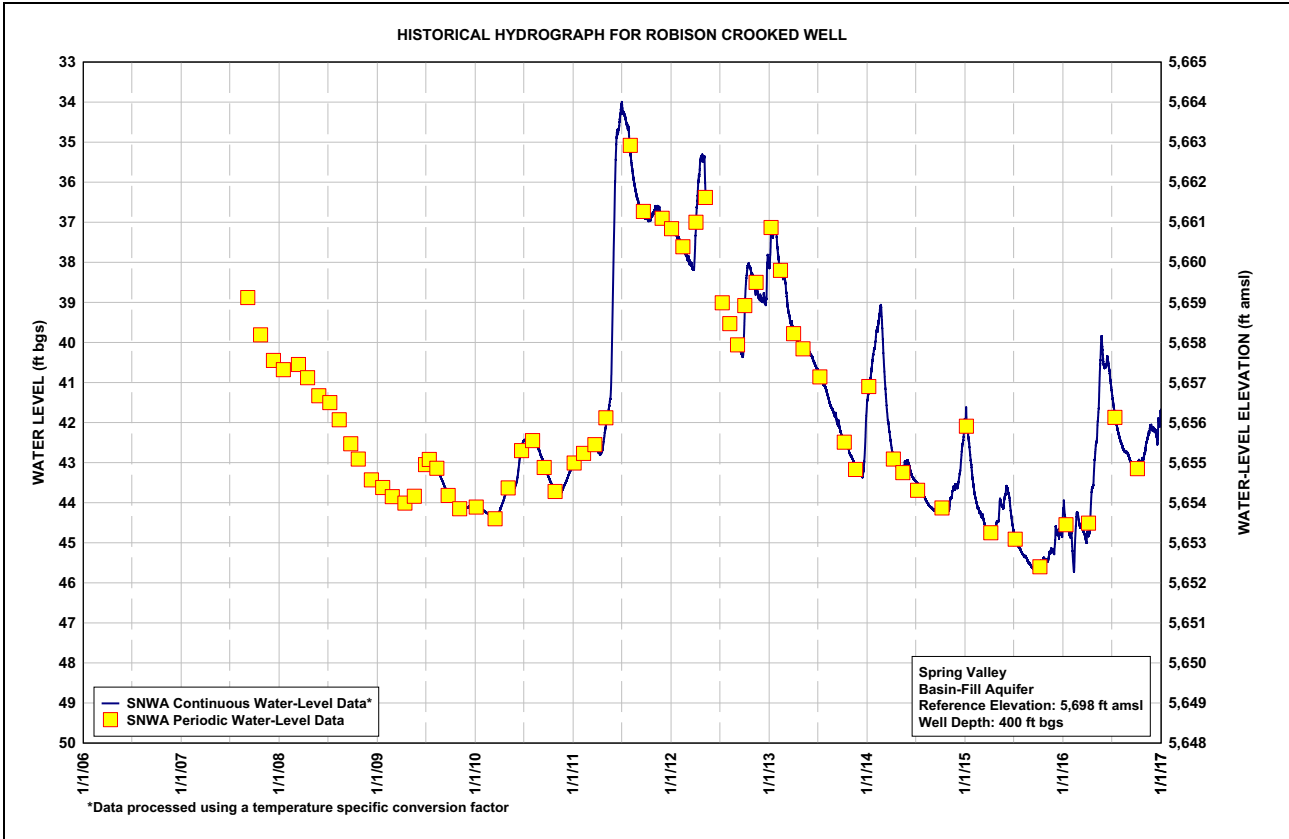
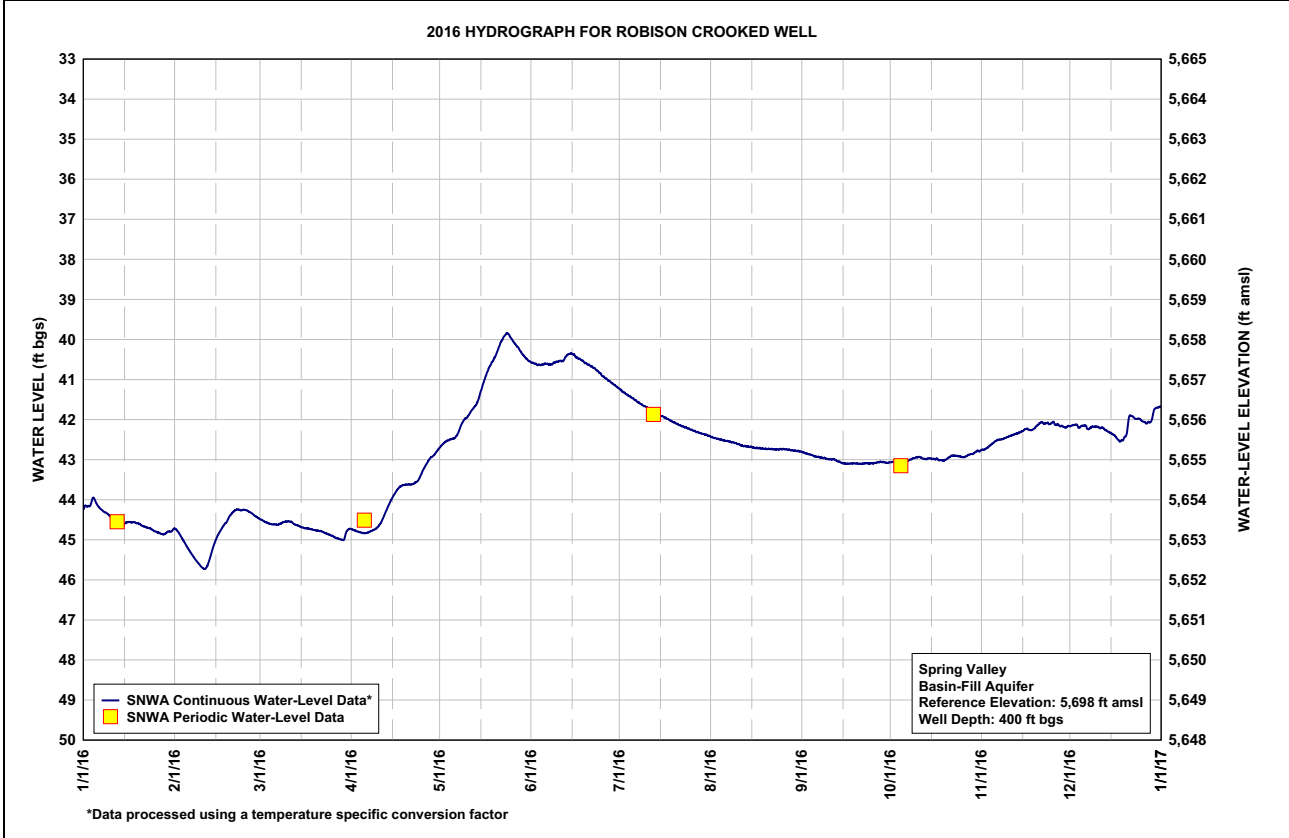


Table B-7
Spring Valley Robison Crooked Well, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 44.16 | 44.74 | 44.50 | 44.74 | 42.66 | 40.58 | 41.25 | 42.44 | 42.82 | 43.06 | 42.75 | 42.15 |
| 2 | 44.17 | 44.83 | 44.54 | 44.77 | 42.58 | 40.61 | 41.32 | 42.46 | 42.84 | 43.04 | 42.72 | 42.13 |
| 3 | 44.13 | 44.95 | 44.57 | 44.80 | 42.53 | 40.63 | 41.37 | 42.48 | 42.86 | 43.07 | 42.67 | 42.13 |
| 4 | 43.96 | 45.08 | 44.60 | 44.82 | 42.50 | 40.63 | 41.42 | 42.50 | 42.89 | 43.07 | 42.61 | 42.19 |
| 5 | 44.09 | 45.20 | 44.61 | 44.83 | 42.47 | 40.62 | 41.46 | 42.52 | 42.92 | 43.05 | 42.55 | 42.15 |
| 6 | 44.20 | 45.32 | 44.62 | 44.82 | 42.43 | 40.61 | 41.51 | 42.53 | 42.93 | 43.03 | 42.50 | 42.15 |
| 7 | 44.27 | 45.43 | 44.61 | 44.79 | 42.30 | 40.62 | 41.57 | 42.55 | 42.95 | 43.01 | 42.50 | 42.23 |
| 8 | 44.32 | 45.53 | 44.58 | 44.76 | 42.11 | 40.60 | 41.62 | 42.57 | 42.96 | 42.98 | 42.47 | 42.18 |
| 9 | 44.37 | 45.62 | 44.55 | 44.71 | 41.99 | 40.56 | 41.66 | 42.59 | 42.98 | 42.95 | 42.44 | 42.18 |
| 10 | 44.46 | 45.70 | 44.54 | 44.64 | 41.92 | 40.54 | 41.70 | 42.61 | 42.99 | 42.93 | 42.41 | 42.18 |
| 11 | 44.51 | 45.72 | 44.55 | 44.51 | 41.81 | 40.54 | 41.76 | 42.64 | 42.99 | 42.95 | 42.38 | 42.21 |
| 12 | 44.56 | 45.58 | 44.60 | 44.33 | 41.71 | 40.47 | 41.79 | 42.66 | 43.01 | 42.98 | 42.35 | 42.22 |
| 13 | 44.64 | 45.34 | 44.63 | 44.17 | 41.62 | 40.38 | 41.85 | 42.67 | 43.05 | 42.98 | 42.34 | 42.28 |
| 14 | 44.66 | 45.10 | 44.66 | 44.01 | 41.42 | 40.35 | 41.89 | 42.68 | 43.08 | 42.96 | 42.30 | 42.32 |
| 15 | 44.57 | 44.92 | 44.69 | 43.88 | 41.17 | 40.37 | 41.91 | 42.70 | 43.10 | 42.98 | 42.26 | 42.37 |
| 16 | 44.56 | 44.79 | 44.71 | 43.76 | 40.95 | 40.45 | 41.94 | 42.71 | 43.10 | 42.99 | 42.23 | 42.42 |
| 17 | 44.56 | 44.66 | 44.72 | 43.67 | 40.76 | 40.48 | 41.99 | 42.71 | 43.10 | 43.01 | 42.26 | 42.51 |
| 18 | 44.56 | 44.58 | 44.74 | 43.64 | 40.61 | 40.53 | 42.03 | 42.72 | 43.09 | 43.01 | 42.24 | 42.53 |
| 19 | 44.59 | 44.44 | 44.76 | 43.63 | 40.47 | 40.59 | 42.06 | 42.73 | 43.10 | 43.01 | 42.17 | 42.44 |
| 20 | 44.62 | 44.34 | 44.77 | 43.62 | 40.31 | 40.63 | 42.10 | 42.74 | 43.10 | 42.97 | 42.10 | 42.27 |
| 21 | 44.66 | 44.27 | 44.78 | 43.62 | 40.12 | 40.67 | 42.14 | 42.74 | 43.10 | 42.92 | 42.07 | 41.90 |
| 22 | 44.69 | 44.24 | 44.81 | 43.58 | 39.98 | 40.71 | 42.17 | 42.74 | 43.09 | 42.90 | 42.10 | 41.93 |
| 23 | 44.71 | 44.26 | 44.84 | 43.54 | 39.87 | 40.78 | 42.20 | 42.75 | 43.09 | 42.91 | 42.09 | 41.98 |
| 24 | 44.75 | 44.25 | 44.87 | 43.41 | 39.87 | 40.84 | 42.22 | 42.74 | 43.09 | 42.92 | 42.10 | 41.98 |
| 25 | 44.79 | 44.26 | 44.90 | 43.24 | 39.99 | 40.92 | 42.25 | 42.74 | 43.09 | 42.94 | 42.07 | 42.03 |
| 26 | 44.82 | 44.31 | 44.94 | 43.11 | 40.10 | 40.97 | 42.28 | 42.74 | 43.07 | 42.93 | 42.12 | 42.07 |
| 27 | 44.85 | 44.35 | 44.97 | 42.99 | 40.19 | 41.03 | 42.31 | 42.75 | 43.06 | 42.88 | 42.16 | 42.07 |
| 28 | 44.86 | 44.41 | 44.99 | 42.93 | 40.29 | 41.09 | 42.34 | 42.77 | 43.06 | 42.86 | 42.17 | 42.05 |
| 29 | 44.81 | 44.46 | 45.00 | 42.85 | 40.40 | 41.14 | 42.36 | 42.78 | 43.07 | 42.83 | 42.19 | 41.78 |
| 30 | 44.80 | --- | 44.78 | 42.75 | 40.48 | 41.19 | 42.38 | 42.78 | 43.07 | 42.79 | 42.16 | 41.70 |
| 31 | 44.74 | --- | 44.73 | --- | 40.54 | --- | 42.41 | 42.80 | --- | 42.79 | --- | 41.69 |
| Max | 44.86 | 45.72 | 45.00 | 44.83 | 42.66 | 41.19 | 42.41 | 42.80 | 43.10 | 43.07 | 42.75 | 42.53 |
| Min | 43.96 | 44.24 | 44.50 | 42.75 | 39.87 | 40.35 | 41.25 | 42.44 | 42.82 | 42.79 | 42.07 | 41.69 |

Year 2016 Statistics: Year Max 45.72; Year Min 39.87

Note: Water level in ft bgs





**Table B-8
Hamlin Valley Well 383023114115302, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 178.55 | 178.67 | 178.95 | 179.11 | 179.21 | 179.01 | 178.81 | 178.61 | 178.48 | 178.45 | 178.52 | 178.87 |
| 2 | 178.55 | 178.66 | 178.99 | 178.96 | 179.21 | 179.02 | 178.81 | 178.60 | 178.47 | 178.39 | 178.56 | 178.92 |
| 3 | 178.53 | 178.66 | 178.98 | 178.94 | 179.07 | 179.03 | 178.80 | 178.58 | 178.45 | 178.46 | 178.53 | 178.92 |
| 4 | 178.59 | 178.66 | 179.01 | 179.12 | 179.05 | 179.00 | 178.78 | 178.58 | 178.44 | 178.45 | 178.53 | 178.88 |
| 5 | 178.55 | 178.67 | 179.01 | 179.17 | 179.20 | 178.97 | 178.77 | 178.57 | 178.49 | 178.46 | 178.51 | 178.92 |
| 6 | 178.53 | 178.65 | 179.00 | 179.17 | 179.04 | 178.97 | 178.77 | 178.57 | 178.48 | 178.49 | 178.52 | 178.90 |
| 7 | 178.53 | 178.68 | 178.86 | 179.13 | 179.04 | 178.99 | 178.77 | 178.55 | 178.49 | 178.49 | 178.57 | 179.00 |
| 8 | 178.59 | 178.67 | 178.84 | 179.15 | 179.01 | 178.97 | 178.76 | 178.55 | 178.49 | 178.48 | 178.56 | 178.97 |
| 9 | 178.58 | 178.65 | 179.08 | 179.16 | 179.02 | 178.96 | 178.73 | 178.55 | 178.49 | 178.47 | 178.54 | 178.98 |
| 10 | 178.59 | 178.66 | 179.05 | 179.18 | 179.06 | 178.96 | 178.71 | 178.56 | 178.47 | 178.46 | 178.55 | 178.95 |
| 11 | 178.59 | 178.67 | 179.03 | 179.21 | 179.06 | 178.97 | 178.73 | 178.57 | 178.44 | 178.47 | 178.55 | 178.99 |
| 12 | 178.57 | 178.66 | 179.10 | 179.20 | 179.04 | 178.96 | 178.72 | 178.56 | 178.43 | 178.49 | 178.55 | 178.99 |
| 13 | 178.53 | 178.67 | 178.86 | 179.19 | 179.20 | 178.93 | 178.74 | 178.55 | 178.46 | 178.47 | 178.56 | 178.99 |
| 14 | 178.55 | 178.68 | 178.85 | 179.18 | 179.20 | 178.91 | 178.70 | 178.53 | 178.48 | 178.45 | 178.55 | 179.00 |
| 15 | 178.59 | 178.68 | 179.03 | 179.24 | 179.24 | 178.91 | 178.69 | 178.53 | 178.48 | 178.44 | 178.52 | 178.95 |
| 16 | 178.59 | 178.66 | 179.09 | 179.25 | 179.28 | 178.94 | 178.69 | 178.53 | 178.47 | 178.43 | 178.48 | 178.91 |
| 17 | 178.58 | 178.63 | 179.08 | 179.24 | 179.28 | 178.93 | 178.69 | 178.53 | 178.47 | 178.49 | 178.61 | 179.07 |
| 18 | 178.56 | 178.73 | 179.13 | 179.24 | 179.08 | 178.93 | 178.69 | 178.53 | 178.47 | 178.47 | 178.77 | 179.09 |
| 19 | 178.59 | 178.69 | 179.14 | 179.24 | 179.00 | 178.92 | 178.69 | 178.51 | 178.47 | 178.53 | 178.79 | 179.06 |
| 20 | 178.61 | 178.71 | 179.13 | 179.24 | 179.01 | 178.90 | 178.68 | 178.52 | 178.47 | 178.49 | 178.79 | 179.05 |
| 21 | 178.61 | 178.69 | 179.10 | 179.24 | 179.04 | 178.89 | 178.68 | 178.51 | 178.43 | 178.47 | 178.79 | 179.06 |
| 22 | 178.57 | 178.68 | 179.13 | 179.22 | 179.03 | 178.88 | 178.66 | 178.51 | 178.41 | 178.47 | 178.87 | 179.02 |
| 23 | 178.63 | 178.73 | 179.15 | 179.29 | 179.01 | 178.87 | 178.65 | 178.52 | 178.48 | 178.50 | 178.86 | 179.01 |
| 24 | 178.68 | 178.70 | 179.11 | 179.23 | 179.02 | 178.87 | 178.64 | 178.51 | 178.50 | 178.49 | 178.91 | 178.97 |
| 25 | 178.65 | 178.74 | 179.11 | 179.22 | 179.03 | 178.88 | 178.64 | 178.50 | 178.50 | 178.51 | 178.89 | 179.11 |
| 26 | 178.65 | 178.89 | 179.16 | 179.14 | 179.01 | 178.87 | 178.64 | 178.49 | 178.47 | 178.51 | 178.84 | 179.12 |
| 27 | 178.63 | 178.90 | 179.11 | 179.01 | 179.01 | 178.84 | 178.63 | 178.49 | 178.46 | 178.49 | 178.78 | 179.08 |
| 28 | 178.60 | 178.94 | 179.08 | 179.03 | 179.03 | 178.85 | 178.62 | 178.51 | 178.48 | 178.48 | 178.67 | 179.12 |
| 29 | 178.57 | 178.95 | 179.12 | 179.01 | 179.01 | 178.82 | 178.61 | 178.50 | 178.48 | 178.51 | 178.70 | 179.10 |
| 30 | 178.61 | --- | 179.12 | 179.18 | 179.01 | 178.82 | 178.61 | 178.49 | 178.46 | 178.47 | 178.67 | 179.04 |
| 31 | 178.54 | --- | 179.10 | --- | 179.02 | --- | 178.61 | 178.48 | --- | 178.48 | --- | 179.07 |
| Max | 178.68 | 178.95 | 179.16 | 179.29 | 179.28 | 179.03 | 178.81 | 178.61 | 178.50 | 178.53 | 178.91 | 179.12 |
| Min | 178.53 | 178.63 | 178.84 | 178.94 | 179.00 | 178.82 | 178.61 | 178.48 | 178.41 | 178.39 | 178.48 | 178.87 |

Year 2016 Statistics: Year Max 179.29; Year Min 178.39

Note: Water level in ft bgs

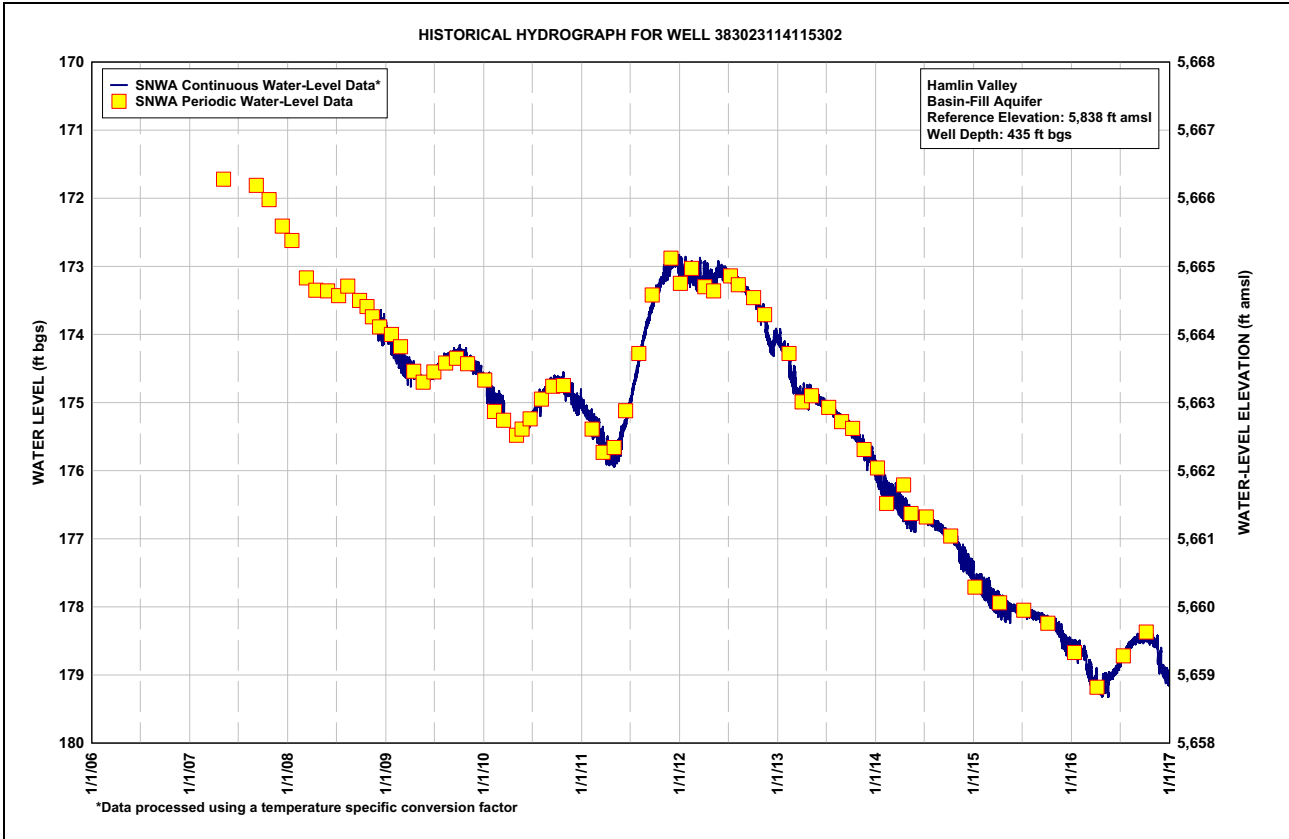
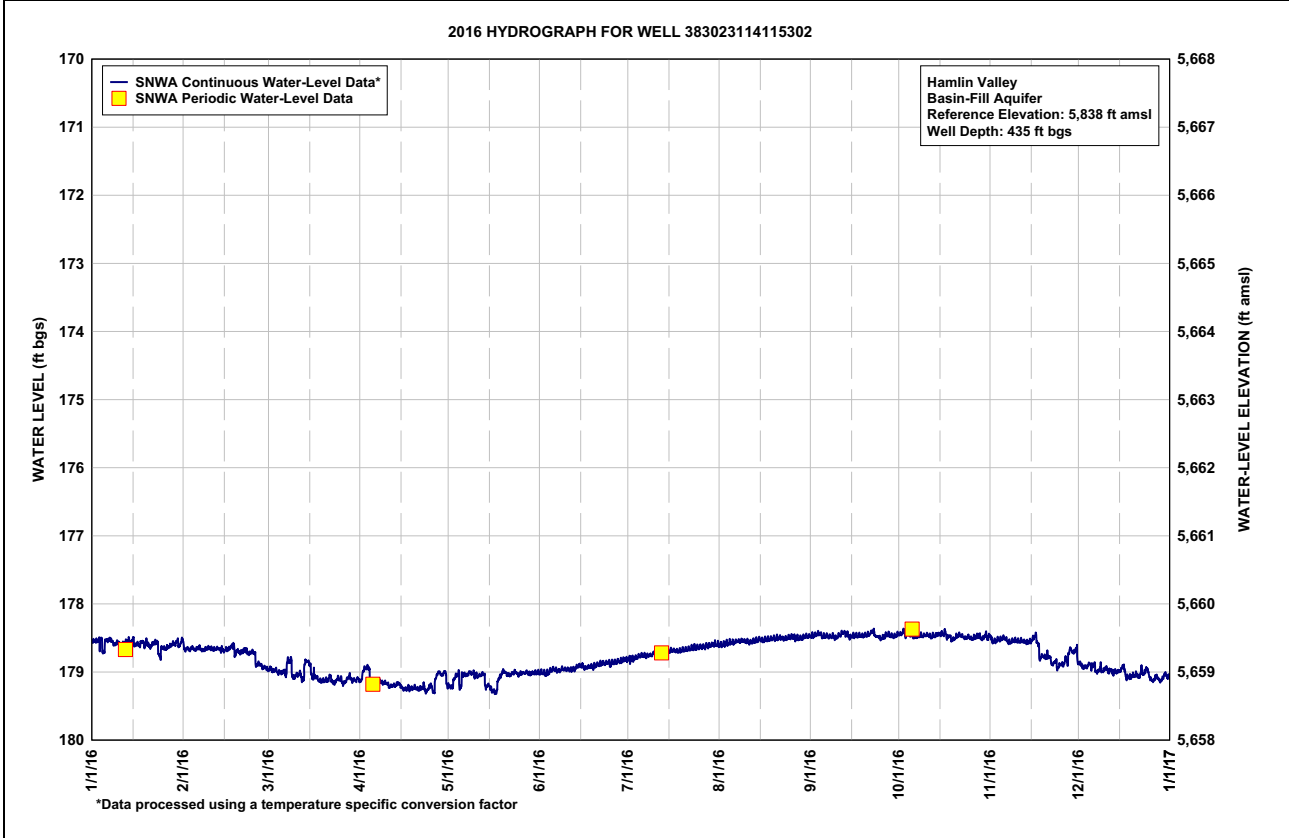




Table B-9
Spring Valley Well 184W502M Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 487.37 | 487.18 | 487.43 | 487.70 | 487.69 | 487.53 | 487.46 | 487.41 | 487.31 | 487.25 | 487.30 | 487.39 |
| 2 | 487.34 | 487.44 | 487.44 | 487.67 | 487.75 | 487.55 | 487.48 | 487.43 | 487.25 | 487.13 | 487.50 | 487.50 |
| 3 | 487.28 | 487.56 | 487.42 | 487.60 | 487.70 | 487.61 | 487.47 | 487.37 | 487.19 | 487.21 | 487.51 | 487.50 |
| 4 | 487.16 | 487.55 | 487.38 | 487.59 | 487.60 | 487.56 | 487.43 | 487.35 | 487.15 | 487.23 | 487.42 | 487.36 |
| 5 | 487.12 | 487.61 | 487.32 | 487.67 | 487.46 | 487.45 | 487.40 | 487.32 | 487.29 | 487.28 | 487.32 | 487.31 |
| 6 | 487.09 | 487.53 | 487.19 | 487.70 | 487.47 | 487.39 | 487.39 | 487.33 | 487.36 | 487.41 | 487.33 | 487.27 |
| 7 | 487.09 | 487.55 | 487.26 | 487.52 | 487.50 | 487.46 | 487.44 | 487.31 | 487.40 | 487.42 | 487.48 | 487.54 |
| 8 | 487.30 | 487.59 | 487.40 | 487.43 | 487.48 | 487.50 | 487.47 | 487.31 | 487.40 | 487.37 | 487.50 | 487.54 |
| 9 | 487.39 | 487.49 | 487.52 | 487.41 | 487.51 | 487.46 | 487.46 | 487.30 | 487.44 | 487.34 | 487.44 | 487.53 |
| 10 | 487.42 | 487.42 | 487.53 | 487.44 | 487.65 | 487.52 | 487.34 | 487.37 | 487.40 | 487.30 | 487.41 | 487.39 |
| 11 | 487.48 | 487.43 | 487.37 | 487.60 | 487.74 | 487.54 | 487.46 | 487.44 | 487.29 | 487.32 | 487.38 | 487.41 |
| 12 | 487.41 | 487.40 | 487.44 | 487.62 | 487.69 | 487.55 | 487.41 | 487.43 | 487.17 | 487.35 | 487.38 | 487.40 |
| 13 | 487.22 | 487.41 | 487.44 | 487.56 | 487.59 | 487.51 | 487.50 | 487.40 | 487.20 | 487.31 | 487.41 | 487.45 |
| 14 | 487.24 | 487.41 | 487.43 | 487.42 | 487.41 | 487.38 | 487.48 | 487.35 | 487.35 | 487.25 | 487.39 | 487.43 |
| 15 | 487.19 | 487.44 | 487.56 | 487.50 | 487.37 | 487.38 | 487.39 | 487.37 | 487.39 | 487.21 | 487.30 | 487.32 |
| 16 | 487.37 | 487.37 | 487.55 | 487.67 | 487.50 | 487.53 | 487.37 | 487.36 | 487.35 | 487.17 | 487.05 | 487.10 |
| 17 | 487.42 | 487.22 | 487.46 | 487.70 | 487.58 | 487.57 | 487.42 | 487.31 | 487.38 | 487.27 | 487.35 | 487.53 |
| 18 | 487.30 | 487.20 | 487.49 | 487.67 | 487.55 | 487.59 | 487.46 | 487.34 | 487.36 | 487.35 | 487.47 | 487.72 |
| 19 | 487.37 | 487.40 | 487.55 | 487.59 | 487.39 | 487.58 | 487.46 | 487.32 | 487.35 | 487.54 | 487.38 | 487.68 |
| 20 | 487.38 | 487.47 | 487.52 | 487.54 | 487.29 | 487.55 | 487.46 | 487.33 | 487.31 | 487.42 | 487.31 | 487.55 |
| 21 | 487.50 | 487.45 | 487.39 | 487.54 | 487.46 | 487.47 | 487.47 | 487.33 | 487.22 | 487.27 | 487.21 | 487.53 |
| 22 | 487.33 | 487.36 | 487.37 | 487.45 | 487.51 | 487.45 | 487.44 | 487.34 | 487.12 | 487.27 | 487.45 | 487.39 |
| 23 | 487.20 | 487.47 | 487.60 | 487.57 | 487.46 | 487.47 | 487.42 | 487.36 | 487.31 | 487.37 | 487.40 | 487.33 |
| 24 | 487.25 | 487.47 | 487.55 | 487.54 | 487.49 | 487.47 | 487.42 | 487.33 | 487.46 | 487.37 | 487.56 | 487.07 |
| 25 | 487.43 | 487.48 | 487.41 | 487.37 | 487.57 | 487.57 | 487.41 | 487.30 | 487.52 | 487.39 | 487.44 | 487.42 |
| 26 | 487.54 | 487.45 | 487.51 | 487.58 | 487.55 | 487.55 | 487.38 | 487.32 | 487.45 | 487.41 | 487.20 | 487.72 |
| 27 | 487.49 | 487.36 | 487.53 | 487.54 | 487.51 | 487.52 | 487.39 | 487.34 | 487.33 | 487.34 | 487.15 | 487.63 |
| 28 | 487.34 | 487.43 | 487.21 | 487.51 | 487.54 | 487.53 | 487.39 | 487.40 | 487.33 | 487.25 | 487.19 | 487.63 |
| 29 | 487.27 | 487.43 | 487.31 | 487.62 | 487.58 | 487.48 | 487.37 | 487.38 | 487.36 | 487.35 | 487.44 | 487.66 |
| 30 | 487.16 | --- | 487.58 | 487.60 | 487.55 | 487.46 | 487.32 | 487.33 | 487.32 | 487.26 | 487.42 | 487.36 |
| 31 | 487.08 | --- | 487.60 | --- | 487.53 | --- | 487.37 | 487.30 | --- | 487.26 | --- | 487.33 |
| Max | 487.54 | 487.61 | 487.60 | 487.70 | 487.75 | 487.61 | 487.50 | 487.44 | 487.52 | 487.54 | 487.56 | 487.72 |
| Min | 487.08 | 487.18 | 487.19 | 487.37 | 487.29 | 487.38 | 487.32 | 487.30 | 487.12 | 487.13 | 487.05 | 487.07 |

Year 2016 Statistics: Year Max 487.75; Year Min 487.05

Note: Water level in ft bgs

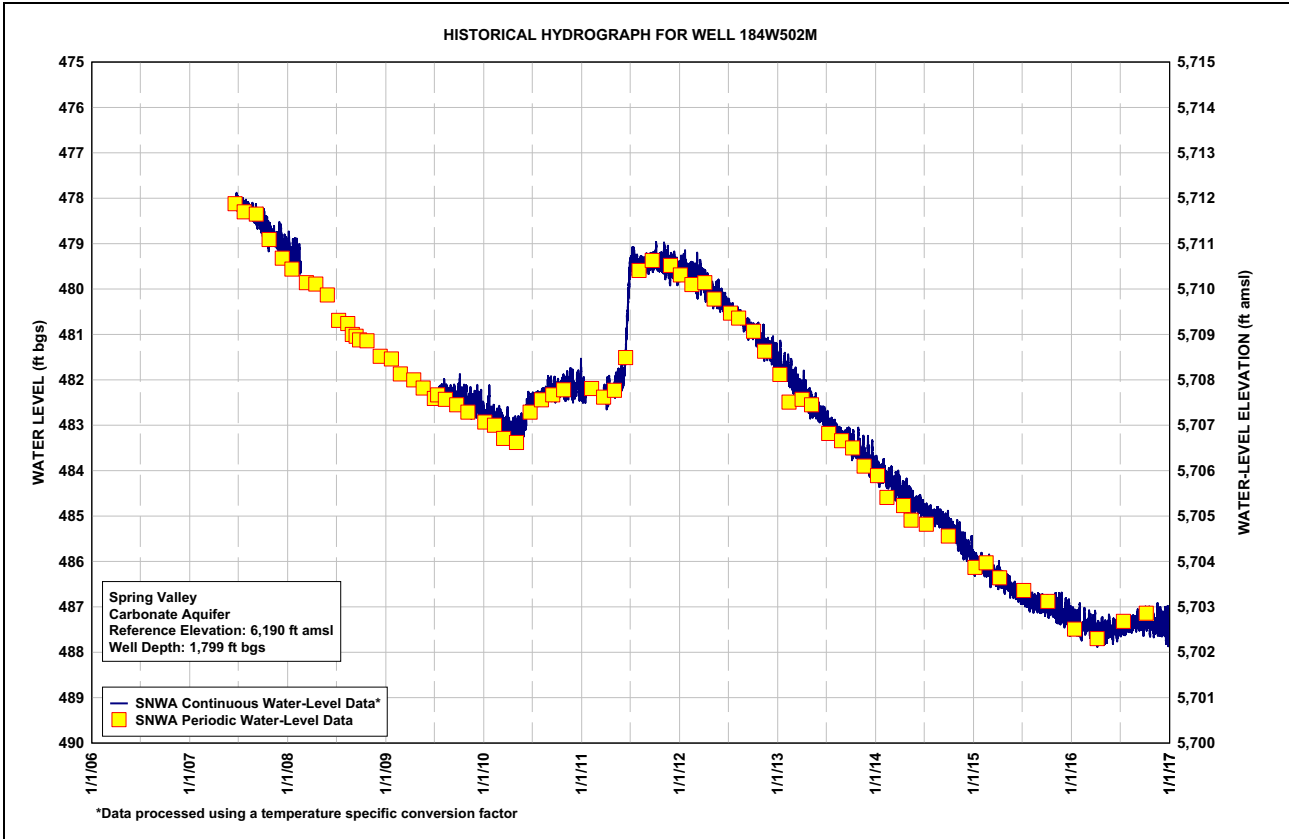
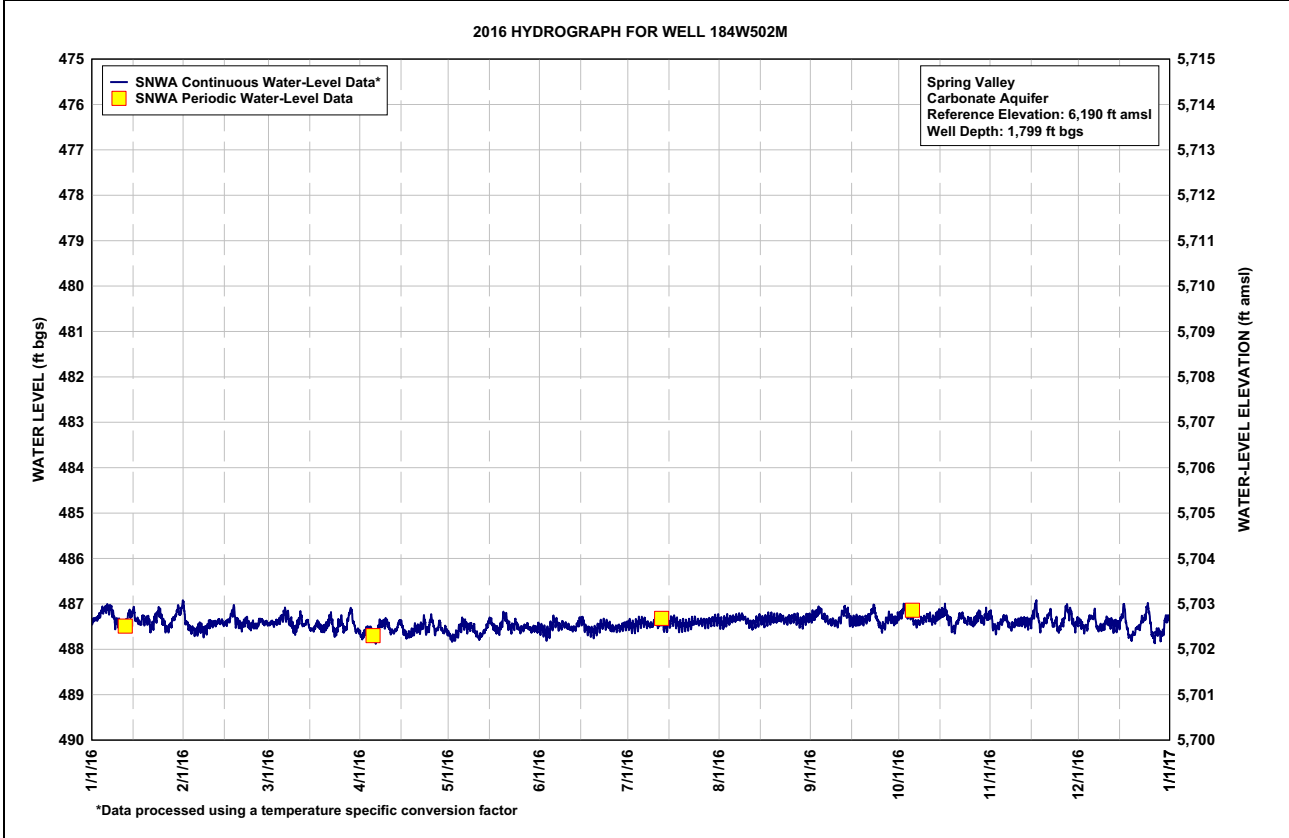




Table B-10
Spring Valley Well 184W504M, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 101.07 | 101.08 | 101.07 | 101.13 | 101.12 | 101.14 | 101.16 | 101.24 | 101.29 | 101.33 | 101.41 | 101.42 |
| 2 | 101.06 | 101.07 | 101.07 | 101.11 | 101.13 | 101.14 | 101.18 | 101.25 | 101.27 | 101.29 | 101.45 | 101.46 |
| 3 | 101.05 | 101.10 | 101.05 | 101.09 | 101.12 | 101.16 | 101.17 | 101.23 | 101.26 | 101.35 | 101.43 | 101.44 |
| 4 | 101.01 | 101.10 | 101.06 | 101.11 | 101.10 | 101.14 | 101.17 | 101.23 | 101.25 | 101.33 | 101.42 | 101.39 |
| 5 | 101.00 | 101.11 | 101.03 | 101.13 | 101.07 | 101.10 | 101.16 | 101.22 | 101.30 | 101.35 | 101.39 | 101.41 |
| 6 | 100.99 | 101.08 | 101.00 | 101.13 | 101.07 | 101.10 | 101.17 | 101.23 | 101.31 | 101.39 | 101.42 | 101.40 |
| 7 | 100.99 | 101.11 | 101.02 | 101.07 | 101.09 | 101.13 | 101.19 | 101.23 | 101.33 | 101.39 | 101.46 | 101.49 |
| 8 | 101.05 | 101.11 | 101.07 | 101.06 | 101.08 | 101.13 | 101.19 | 101.22 | 101.32 | 101.39 | 101.46 | 101.47 |
| 9 | 101.05 | 101.07 | 101.10 | 101.05 | 101.09 | 101.12 | 101.17 | 101.24 | 101.35 | 101.38 | 101.43 | 101.50 |
| 10 | 101.07 | 101.07 | 101.07 | 101.07 | 101.14 | 101.13 | 101.15 | 101.26 | 101.33 | 101.37 | 101.43 | 101.44 |
| 11 | 101.09 | 101.07 | 101.02 | 101.11 | 101.15 | 101.14 | 101.18 | 101.28 | 101.29 | 101.38 | 101.42 | 101.49 |
| 12 | 101.06 | 101.06 | 101.08 | 101.10 | 101.13 | 101.15 | 101.18 | 101.27 | 101.27 | 101.39 | 101.42 | 101.47 |
| 13 | 101.00 | 101.07 | 101.06 | 101.07 | 101.11 | 101.11 | 101.21 | 101.26 | 101.29 | 101.37 | 101.43 | 101.47 |
| 14 | 101.03 | 101.06 | 101.08 | 101.04 | 101.07 | 101.09 | 101.19 | 101.25 | 101.34 | 101.36 | 101.42 | 101.46 |
| 15 | 101.05 | 101.07 | 101.10 | 101.10 | 101.07 | 101.10 | 101.19 | 101.26 | 101.35 | 101.34 | 101.37 | 101.42 |
| 16 | 101.06 | 101.04 | 101.10 | 101.13 | 101.11 | 101.15 | 101.19 | 101.26 | 101.34 | 101.34 | 101.31 | 101.39 |
| 17 | 101.07 | 101.00 | 101.06 | 101.12 | 101.13 | 101.16 | 101.20 | 101.26 | 101.34 | 101.39 | 101.44 | 101.53 |
| 18 | 101.03 | 101.08 | 101.09 | 101.11 | 101.12 | 101.16 | 101.22 | 101.27 | 101.34 | 101.40 | 101.43 | 101.56 |
| 19 | 101.05 | 101.06 | 101.10 | 101.09 | 101.05 | 101.17 | 101.22 | 101.26 | 101.33 | 101.44 | 101.42 | 101.52 |
| 20 | 101.08 | 101.08 | 101.08 | 101.09 | 101.05 | 101.17 | 101.22 | 101.27 | 101.32 | 101.40 | 101.39 | 101.49 |
| 21 | 101.09 | 101.06 | 101.04 | 101.09 | 101.10 | 101.16 | 101.22 | 101.27 | 101.29 | 101.37 | 101.37 | 101.50 |
| 22 | 101.04 | 101.05 | 101.07 | 101.04 | 101.11 | 101.14 | 101.22 | 101.27 | 101.30 | 101.39 | 101.45 | 101.44 |
| 23 | 101.00 | 101.10 | 101.13 | 101.10 | 101.09 | 101.16 | 101.21 | 101.29 | 101.37 | 101.42 | 101.43 | 101.43 |
| 24 | 101.04 | 101.08 | 101.08 | 101.06 | 101.10 | 101.16 | 101.21 | 101.27 | 101.40 | 101.40 | 101.48 | 101.36 |
| 25 | 101.08 | 101.09 | 101.06 | 101.05 | 101.13 | 101.18 | 101.20 | 101.28 | 101.40 | 101.42 | 101.43 | 101.50 |
| 26 | 101.11 | 101.07 | 101.12 | 101.10 | 101.11 | 101.17 | 101.22 | 101.29 | 101.37 | 101.41 | 101.37 | 101.55 |
| 27 | 101.08 | 101.06 | 101.08 | 101.06 | 101.11 | 101.16 | 101.22 | 101.30 | 101.34 | 101.38 | 101.40 | 101.48 |
| 28 | 101.03 | 101.08 | 100.98 | 101.08 | 101.13 | 101.18 | 101.22 | 101.31 | 101.36 | 101.38 | 101.39 | 101.51 |
| 29 | 101.02 | 101.07 | 101.07 | 101.09 | 101.13 | 101.17 | 101.22 | 101.31 | 101.37 | 101.41 | 101.45 | 101.50 |
| 30 | 101.02 | --- | 101.11 | 101.10 | 101.13 | 101.17 | 101.21 | 101.29 | 101.35 | 101.36 | 101.41 | 101.40 |
| 31 | 100.95 | --- | 101.10 | --- | 101.12 | --- | 101.23 | 101.29 | --- | 101.38 | --- | 101.43 |
| Max | 101.11 | 101.11 | 101.13 | 101.13 | 101.15 | 101.18 | 101.23 | 101.31 | 101.40 | 101.44 | 101.48 | 101.56 |
| Min | 100.95 | 101.00 | 100.98 | 101.04 | 101.05 | 101.09 | 101.15 | 101.22 | 101.25 | 101.29 | 101.31 | 101.36 |

Year 2016 Statistics: Year Max 101.56; Year Min 100.95

Note: Water level in ft bgs

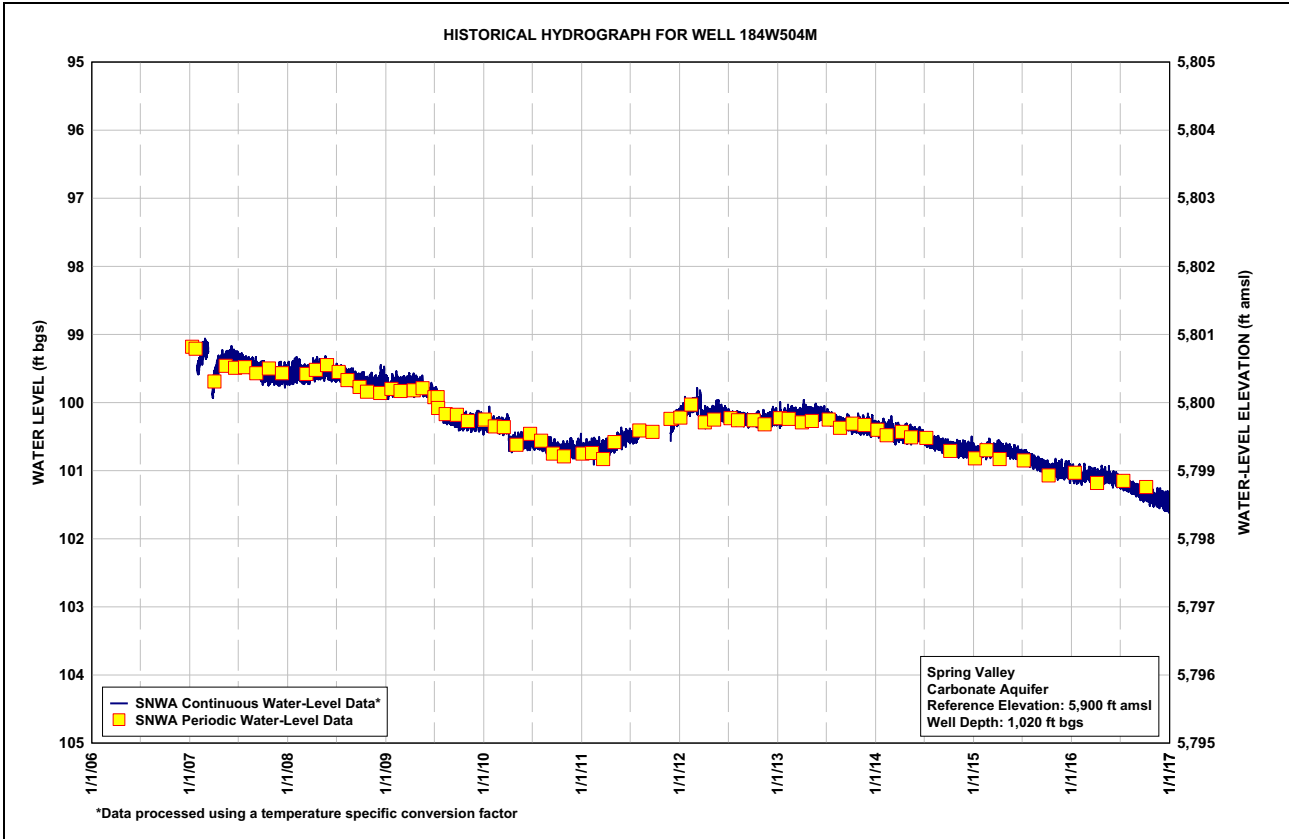
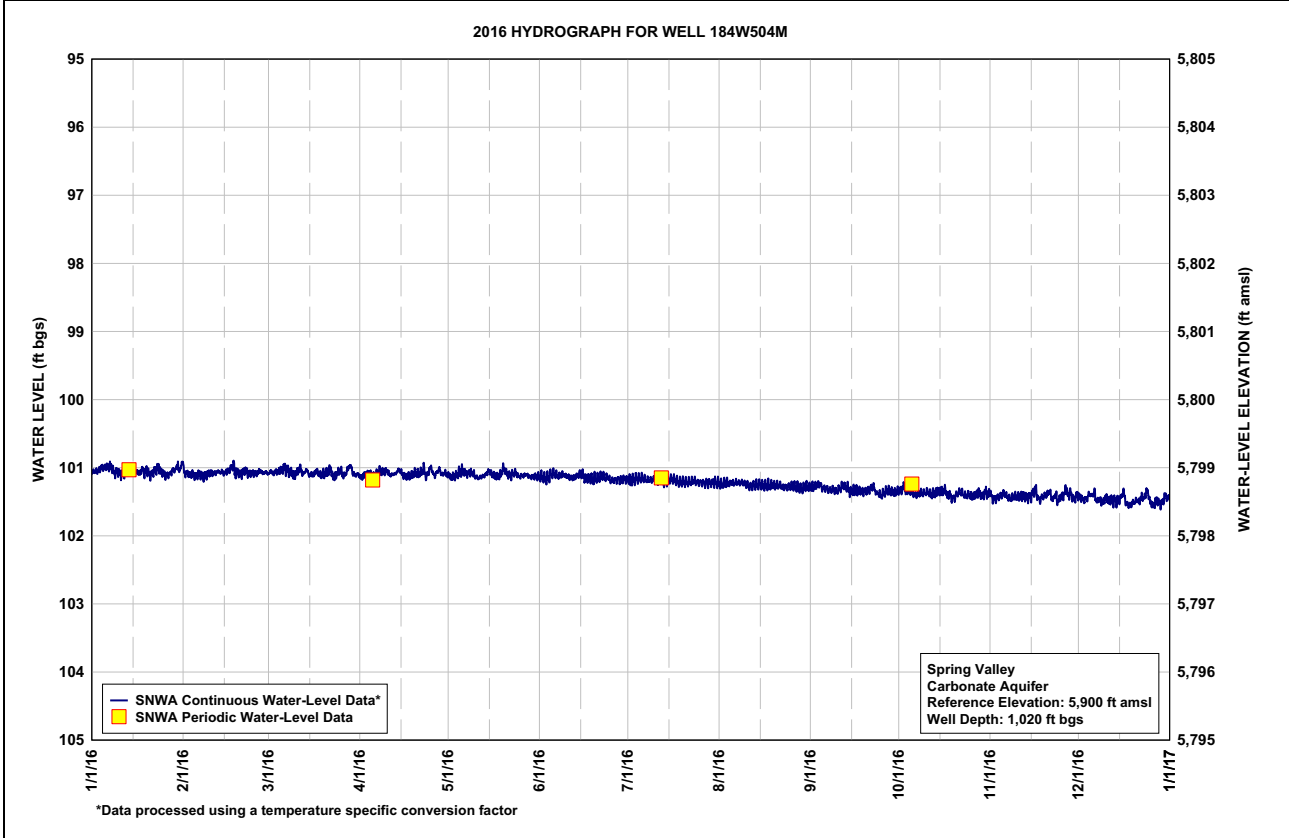




Table B-11
Spring Valley Well 184W506M, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 216.75 | 216.77 | 216.80 | 216.83 | 216.84 | 216.86 | 216.89 | 216.91 | 216.94 | 216.99 | 217.02 | 217.03 |
| 2 | 216.75 | 216.78 | 216.81 | 216.83 | 216.85 | 216.87 | 216.89 | 216.91 | 216.94 | 216.97 | 217.05 | 217.04 |
| 3 | 216.74 | 216.80 | 216.79 | 216.83 | 216.85 | 216.88 | 216.89 | 216.91 | 216.93 | 216.99 | 217.05 | 217.05 |
| 4 | 216.72 | 216.80 | 216.79 | 216.83 | 216.84 | 216.87 | 216.88 | 216.91 | 216.93 | 216.99 | 217.04 | 217.02 |
| 5 | 216.72 | 216.81 | 216.78 | 216.85 | 216.82 | 216.85 | 216.87 | 216.90 | 216.95 | 216.99 | 217.03 | 217.02 |
| 6 | 216.71 | 216.80 | 216.77 | 216.85 | 216.82 | 216.85 | 216.87 | 216.91 | 216.95 | 217.01 | 217.03 | 217.02 |
| 7 | 216.71 | 216.82 | 216.77 | 216.82 | 216.84 | 216.86 | 216.88 | 216.90 | 216.97 | 217.01 | 217.05 | 217.06 |
| 8 | 216.74 | 216.82 | 216.79 | 216.81 | 216.83 | 216.86 | 216.89 | 216.91 | 216.96 | 217.01 | 217.05 | 217.06 |
| 9 | 216.75 | 216.81 | 216.80 | 216.81 | 216.83 | 216.85 | 216.89 | 216.91 | 216.97 | 217.01 | 217.04 | 217.05 |
| 10 | 216.76 | 216.80 | 216.80 | 216.81 | 216.85 | 216.85 | 216.87 | 216.91 | 216.97 | 217.00 | 217.05 | 217.03 |
| 11 | 216.77 | 216.81 | 216.77 | 216.83 | 216.86 | 216.87 | 216.89 | 216.93 | 216.96 | 217.00 | 217.05 | 217.04 |
| 12 | 216.76 | 216.80 | 216.79 | 216.83 | 216.86 | 216.87 | 216.88 | 216.93 | 216.95 | 217.01 | 217.04 | 217.04 |
| 13 | 216.74 | 216.80 | 216.79 | 216.82 | 216.85 | 216.87 | 216.89 | 216.92 | 216.95 | 217.01 | 217.05 | 217.05 |
| 14 | 216.74 | 216.80 | 216.79 | 216.80 | 216.83 | 216.85 | 216.89 | 216.92 | 216.98 | 217.00 | 217.05 | 217.05 |
| 15 | 216.75 | 216.80 | 216.81 | 216.82 | 216.83 | 216.85 | 216.88 | 216.92 | 216.98 | 216.99 | 217.02 | 217.02 |
| 16 | 216.76 | 216.79 | 216.81 | 216.84 | 216.85 | 216.86 | 216.88 | 216.93 | 216.98 | 216.99 | 217.00 | 217.00 |
| 17 | 216.77 | 216.76 | 216.80 | 216.84 | 216.86 | 216.87 | 216.89 | 216.93 | 216.98 | 217.01 | 217.04 | 217.06 |
| 18 | 216.76 | 216.77 | 216.81 | 216.84 | 216.85 | 216.88 | 216.90 | 216.93 | 216.98 | 217.02 | 217.05 | 217.08 |
| 19 | 216.76 | 216.78 | 216.82 | 216.83 | 216.82 | 216.88 | 216.90 | 216.92 | 216.98 | 217.04 | 217.03 | 217.07 |
| 20 | 216.78 | 216.80 | 216.81 | 216.83 | 216.81 | 216.88 | 216.90 | 216.93 | 216.98 | 217.03 | 217.02 | 217.04 |
| 21 | 216.78 | 216.79 | 216.79 | 216.83 | 216.83 | 216.87 | 216.90 | 216.93 | 216.97 | 217.00 | 217.01 | 217.04 |
| 22 | 216.76 | 216.78 | 216.80 | 216.79 | 216.84 | 216.87 | 216.90 | 216.94 | 216.96 | 217.00 | 217.04 | 217.02 |
| 23 | 216.74 | 216.80 | 216.83 | 216.83 | 216.83 | 216.87 | 216.90 | 216.94 | 216.99 | 217.01 | 217.03 | 217.01 |
| 24 | 216.76 | 216.80 | 216.81 | 216.82 | 216.84 | 216.87 | 216.90 | 216.94 | 217.01 | 217.02 | 217.05 | 216.98 |
| 25 | 216.78 | 216.81 | 216.79 | 216.80 | 216.85 | 216.88 | 216.90 | 216.94 | 217.01 | 217.03 | 217.03 | 217.04 |
| 26 | 216.80 | 216.80 | 216.82 | 216.83 | 216.85 | 216.89 | 216.91 | 216.94 | 217.01 | 217.03 | 216.99 | 217.06 |
| 27 | 216.79 | 216.79 | 216.81 | 216.81 | 216.84 | 216.89 | 216.91 | 216.94 | 216.99 | 217.01 | 217.00 | 217.04 |
| 28 | 216.77 | 216.80 | 216.77 | 216.81 | 216.86 | 216.89 | 216.91 | 216.95 | 217.00 | 217.01 | 217.00 | 217.06 |
| 29 | 216.75 | 216.80 | 216.78 | 216.82 | 216.86 | 216.88 | 216.90 | 216.95 | 217.00 | 217.03 | 217.04 | 217.06 |
| 30 | 216.75 | --- | 216.81 | 216.82 | 216.86 | 216.88 | 216.90 | 216.95 | 217.00 | 217.00 | 217.02 | 217.02 |
| 31 | 216.72 | --- | 216.81 | --- | 216.86 | --- | 216.91 | 216.95 | --- | 217.02 | --- | 217.02 |
| Max | 216.80 | 216.82 | 216.83 | 216.85 | 216.86 | 216.89 | 216.91 | 216.95 | 217.01 | 217.04 | 217.05 | 217.08 |
| Min | 216.71 | 216.76 | 216.77 | 216.79 | 216.81 | 216.85 | 216.87 | 216.90 | 216.93 | 216.97 | 216.99 | 216.98 |

Year 2016 Statistics: Year Max 217.08; Year Min 216.71

Note: Water level in ft bgs

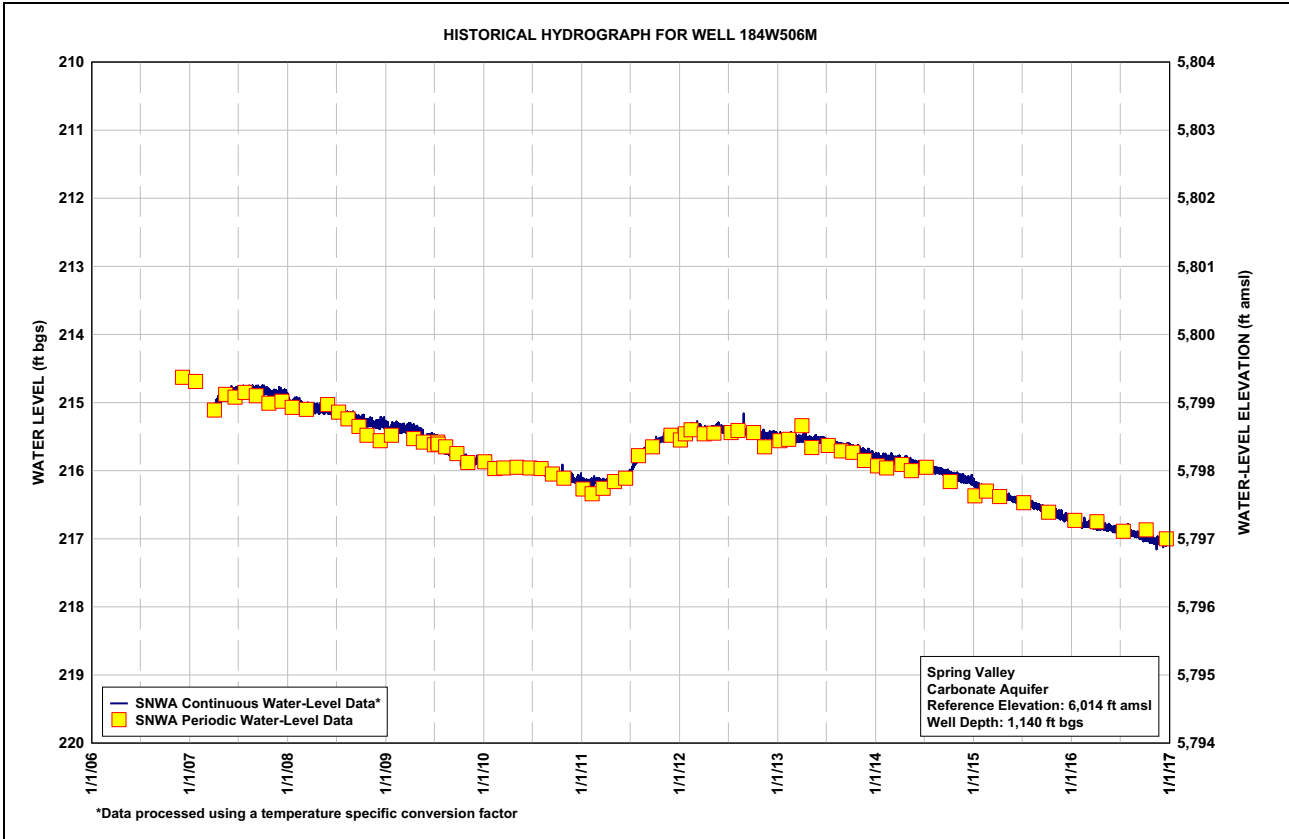
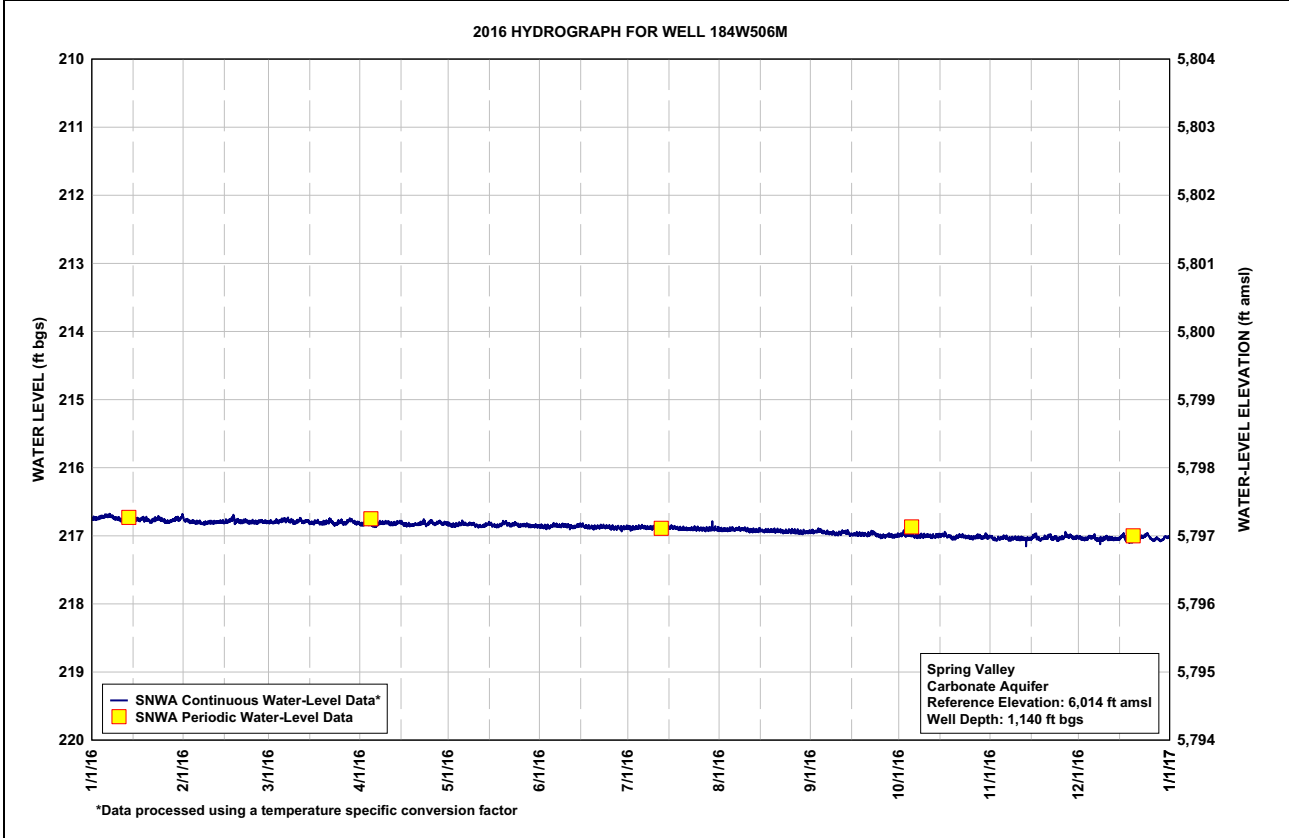




Table B-12
Spring Valley Well 184W508M, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 276.67 | 276.50 | 276.72 | 276.94 | 276.85 | 276.83 | 276.80 | 276.83 | 276.79 | 276.75 | 276.76 | 276.79 |
| 2 | 276.64 | 276.73 | 276.71 | 276.88 | 276.90 | 276.87 | 276.83 | 276.86 | 276.75 | 276.65 | 276.96 | 276.88 |
| 3 | 276.58 | 276.82 | 276.70 | 276.83 | 276.88 | 276.91 | 276.82 | 276.81 | 276.69 | 276.72 | 276.97 | 276.89 |
| 4 | 276.47 | 276.81 | 276.66 | 276.83 | 276.78 | 276.90 | 276.80 | 276.80 | 276.64 | 276.74 | 276.86 | 276.74 |
| 5 | 276.44 | 276.85 | 276.61 | 276.90 | 276.69 | 276.76 | 276.76 | 276.76 | 276.78 | 276.78 | 276.76 | 276.69 |
| 6 | 276.43 | 276.78 | 276.51 | 276.96 | 276.67 | 276.71 | 276.75 | 276.77 | 276.83 | 276.89 | 276.78 | 276.66 |
| 7 | 276.44 | 276.80 | 276.57 | 276.76 | 276.75 | 276.79 | 276.80 | 276.74 | 276.88 | 276.90 | 276.91 | 276.90 |
| 8 | 276.61 | 276.83 | 276.69 | 276.68 | 276.73 | 276.81 | 276.81 | 276.75 | 276.87 | 276.85 | 276.92 | 276.90 |
| 9 | 276.70 | 276.74 | 276.80 | 276.67 | 276.75 | 276.77 | 276.82 | 276.76 | 276.90 | 276.82 | 276.86 | 276.88 |
| 10 | 276.71 | 276.68 | 276.80 | 276.68 | 276.88 | 276.81 | 276.71 | 276.81 | 276.85 | 276.77 | 276.84 | 276.73 |
| 11 | 276.76 | 276.69 | 276.65 | 276.83 | 276.95 | 276.85 | 276.81 | 276.88 | 276.77 | 276.77 | 276.83 | 276.79 |
| 12 | 276.71 | 276.68 | 276.70 | 276.84 | 276.91 | 276.86 | 276.79 | 276.88 | 276.67 | 276.83 | 276.82 | 276.78 |
| 13 | 276.52 | 276.66 | 276.71 | 276.76 | 276.83 | 276.83 | 276.86 | 276.84 | 276.70 | 276.79 | 276.85 | 276.82 |
| 14 | 276.54 | 276.66 | 276.70 | 276.65 | 276.70 | 276.71 | 276.85 | 276.80 | 276.85 | 276.73 | 276.84 | 276.80 |
| 15 | 276.53 | 276.70 | 276.82 | 276.74 | 276.65 | 276.68 | 276.77 | 276.80 | 276.88 | 276.68 | 276.73 | 276.73 |
| 16 | 276.66 | 276.63 | 276.81 | 276.89 | 276.78 | 276.82 | 276.74 | 276.82 | 276.86 | 276.68 | 276.54 | 276.49 |
| 17 | 276.70 | 276.50 | 276.72 | 276.91 | 276.86 | 276.89 | 276.80 | 276.81 | 276.86 | 276.79 | 276.79 | 276.88 |
| 18 | 276.60 | 276.50 | 276.76 | 276.86 | 276.83 | 276.90 | 276.85 | 276.82 | 276.85 | 276.84 | 276.92 | 277.05 |
| 19 | 276.66 | 276.70 | 276.80 | 276.80 | 276.67 | 276.89 | 276.86 | 276.79 | 276.84 | 277.02 | 276.81 | 276.99 |
| 20 | 276.67 | 276.76 | 276.75 | 276.75 | 276.59 | 276.88 | 276.85 | 276.81 | 276.81 | 276.91 | 276.74 | 276.88 |
| 21 | 276.77 | 276.73 | 276.66 | 276.76 | 276.75 | 276.81 | 276.87 | 276.79 | 276.73 | 276.75 | 276.64 | 276.84 |
| 22 | 276.62 | 276.66 | 276.66 | 276.67 | 276.82 | 276.78 | 276.84 | 276.80 | 276.62 | 276.74 | 276.87 | 276.70 |
| 23 | 276.50 | 276.76 | 276.87 | 276.79 | 276.78 | 276.79 | 276.81 | 276.85 | 276.82 | 276.83 | 276.80 | 276.65 |
| 24 | 276.57 | 276.75 | 276.81 | 276.75 | 276.76 | 276.80 | 276.80 | 276.81 | 276.93 | 276.83 | 276.94 | 276.44 |
| 25 | 276.72 | 276.75 | 276.68 | 276.57 | 276.85 | 276.88 | 276.81 | 276.79 | 276.99 | 276.85 | 276.84 | 276.77 |
| 26 | 276.82 | 276.75 | 276.79 | 276.79 | 276.84 | 276.87 | 276.81 | 276.80 | 276.91 | 276.88 | 276.61 | 277.04 |
| 27 | 276.78 | 276.65 | 276.78 | 276.74 | 276.79 | 276.85 | 276.81 | 276.81 | 276.80 | 276.79 | 276.59 | 276.94 |
| 28 | 276.64 | 276.71 | 276.49 | 276.68 | 276.83 | 276.85 | 276.81 | 276.87 | 276.82 | 276.72 | 276.63 | 276.93 |
| 29 | 276.55 | 276.71 | 276.56 | 276.79 | 276.86 | 276.81 | 276.80 | 276.88 | 276.85 | 276.82 | 276.85 | 276.95 |
| 30 | 276.45 | --- | 276.82 | 276.78 | 276.83 | 276.80 | 276.76 | 276.81 | 276.82 | 276.73 | 276.82 | 276.67 |
| 31 | 276.41 | --- | 276.84 | --- | 276.82 | --- | 276.80 | 276.79 | --- | 276.73 | --- | 276.64 |
| Max | 276.82 | 276.85 | 276.87 | 276.96 | 276.95 | 276.91 | 276.87 | 276.88 | 276.99 | 277.02 | 276.97 | 277.05 |
| Min | 276.41 | 276.50 | 276.49 | 276.57 | 276.59 | 276.68 | 276.71 | 276.74 | 276.62 | 276.65 | 276.54 | 276.44 |

Year 2016 Statistics: Year Max 277.05; Year Min 276.41

Note: Water level in ft bgs

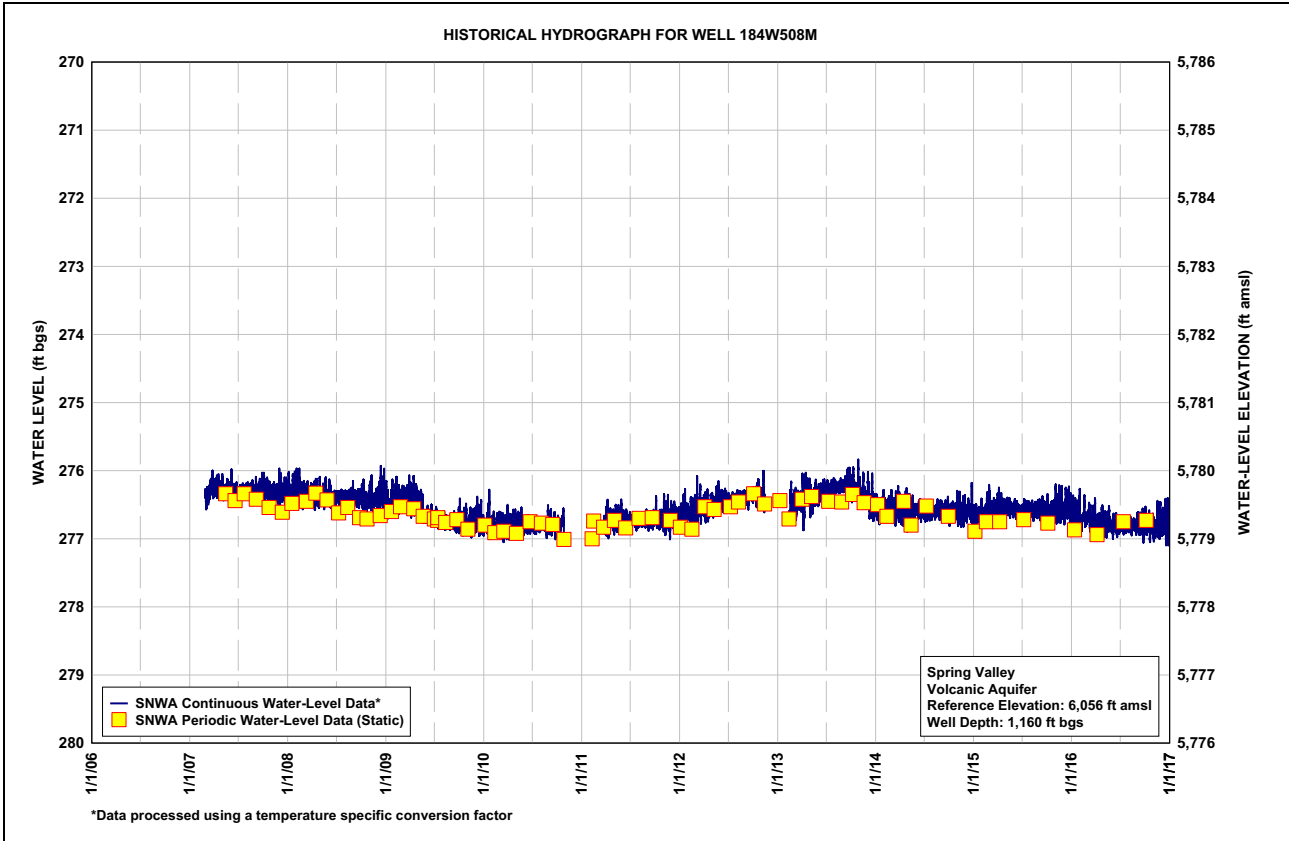
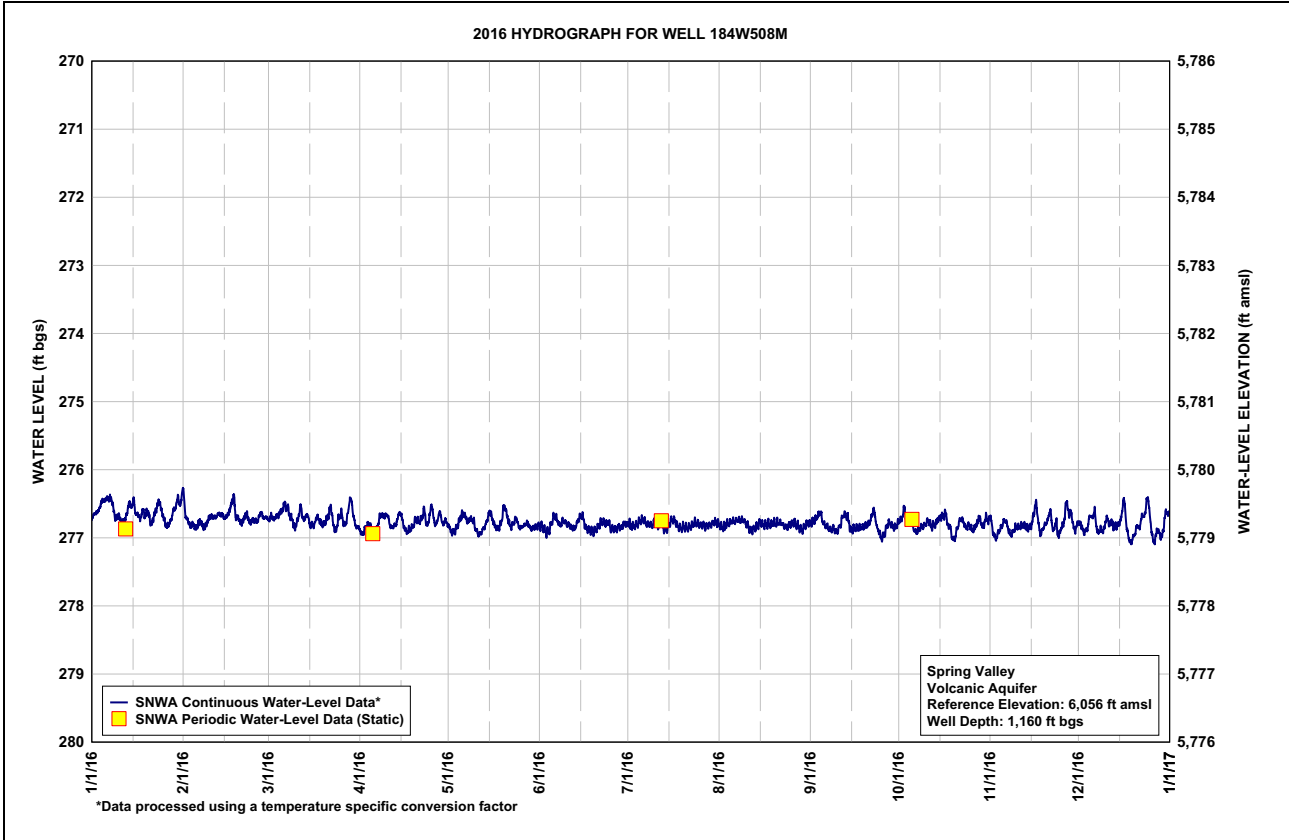




Table B-13
Spring Valley Well SPR7006M, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|------------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 774.21 | 774.24 | 774.26 | --- ^b | 774.28 | 774.17 | 774.05 | 774.00 | 774.35 | 774.59 | 774.89 | 775.04 |
| 2 | 774.20 | 774.27 | 774.28 | --- ^b | 774.30 | 774.20 | 774.06 | 774.01 | 774.34 | 774.55 | 774.96 | 775.10 |
| 3 | 774.17 | 774.30 | 774.26 | --- ^b | 774.29 | 774.21 | 774.05 | 774.01 | 774.33 | 774.62 | 774.95 | 775.09 |
| 4 | 774.12 | 774.31 | 774.25 | --- ^b | 774.24 | 774.19 | 774.03 | 774.01 | 774.33 | 774.63 | 774.93 | 775.00 |
| 5 | 774.12 | 774.31 | 774.21 | --- ^b | 774.19 | 774.13 | 774.01 | 774.00 | 774.41 | 774.66 | 774.89 | 775.01 |
| 6 | 774.11 | 774.29 | 774.15 | --- ^b | 774.19 | 774.12 | 774.01 | 774.02 | 774.43 | 774.72 | 774.91 | 774.99 |
| 7 | 774.11 | 774.30 | 774.19 | --- ^b | 774.21 | 774.15 | 774.03 | 774.02 | 774.46 | 774.72 | 774.99 | 775.12 |
| 8 | 774.21 | 774.29 | 774.24 | --- ^b | 774.19 | 774.14 | 774.02 | 774.02 | 774.46 | 774.72 | 774.99 | 775.09 |
| 9 | 774.21 | 774.28 | 774.29 | --- ^b | 774.21 | 774.12 | 774.02 | 774.04 | 774.49 | 774.71 | 774.96 | 775.09 |
| 10 | 774.24 | 774.27 | --- ^a | --- ^b | 774.27 | 774.13 | 773.97 | 774.08 | 774.47 | 774.70 | 774.96 | 775.01 |
| 11 | 774.25 | 774.28 | 774.20 | --- ^b | 774.29 | 774.15 | 774.00 | 774.13 | 774.42 | 774.72 | 774.97 | 775.09 |
| 12 | 774.22 | 774.26 | 774.28 | --- ^b | 774.27 | 774.16 | 773.98 | 774.13 | 774.39 | 774.74 | 774.96 | 775.09 |
| 13 | 774.14 | 774.27 | 774.23 | --- ^b | 774.24 | 774.11 | 774.00 | 774.13 | 774.43 | 774.72 | 774.98 | 775.09 |
| 14 | 774.17 | 774.28 | 774.25 | --- ^b | 774.16 | 774.06 | 773.99 | 774.13 | 774.51 | 774.69 | 774.98 | 775.07 |
| 15 | 774.21 | 774.28 | 774.30 | --- ^b | 774.17 | 774.07 | 773.95 | 774.14 | 774.51 | 774.69 | 774.91 | 775.02 |
| 16 | 774.23 | 774.25 | 774.28 | --- ^b | 774.21 | 774.14 | 773.94 | 774.16 | 774.51 | 774.69 | 774.84 | 774.96 |
| 17 | 774.25 | 774.15 | 774.24 | --- ^b | 774.24 | 774.15 | 773.96 | 774.16 | 774.53 | 774.78 | 775.00 | 775.15 |
| 18 | 774.20 | 774.24 | 774.26 | --- ^b | 774.22 | 774.15 | 773.98 | 774.18 | 774.54 | 774.80 | 775.01 | 775.21 |
| 19 | 774.24 | 774.25 | 774.28 | --- ^b | 774.14 | 774.16 | 773.98 | 774.18 | 774.54 | 774.86 | 774.98 | 775.17 |
| 20 | 774.27 | 774.28 | 774.24 | --- ^b | 774.12 | 774.14 | 773.98 | 774.20 | 774.52 | 774.80 | 774.96 | 775.13 |
| 21 | 774.27 | 774.27 | 774.19 | --- ^b | 774.19 | 774.12 | 773.99 | 774.21 | 774.48 | 774.75 | 774.93 | 775.14 |
| 22 | 774.21 | 774.24 | 774.23 | --- ^b | 774.20 | 774.09 | 773.98 | 774.22 | 774.47 | 774.78 | 775.05 | 775.08 |
| 23 | 774.16 | 774.29 | 774.31 | --- ^b | 774.17 | 774.10 | 773.97 | 774.26 | 774.57 | 774.83 | 775.00 | 775.04 |
| 24 | 774.22 | 774.28 | 774.24 | --- ^b | 774.20 | 774.09 | 773.97 | 774.26 | 774.62 | 774.83 | 775.07 | 774.97 |
| 25 | 774.27 | 774.30 | 774.19 | --- ^a | 774.21 | 774.12 | 773.96 | 774.27 | 774.64 | 774.86 | 775.02 | 775.15 |
| 26 | 774.29 | 774.27 | 774.25 | 774.27 | 774.19 | 774.11 | 773.97 | 774.27 | 774.60 | 774.87 | 774.90 | 775.23 |
| 27 | 774.28 | 774.25 | --- ^a | 774.23 | 774.18 | 774.09 | 773.97 | 774.29 | 774.57 | 774.83 | 774.95 | 775.16 |
| 28 | 774.22 | 774.28 | --- ^b | 774.24 | 774.20 | 774.11 | 773.98 | 774.34 | 774.60 | 774.82 | 774.97 | 775.21 |
| 29 | 774.18 | 774.27 | --- ^b | 774.25 | 774.20 | 774.08 | 773.97 | 774.35 | 774.62 | 774.87 | 775.07 | 775.20 |
| 30 | 774.18 | --- | --- ^b | 774.26 | 774.19 | 774.06 | 773.96 | 774.34 | 774.61 | 774.81 | 775.02 | 775.06 |
| 31 | 774.11 | --- | --- ^b | --- | 774.19 | --- | 773.98 | 774.34 | --- | 774.86 | --- | 775.09 |
| Max | 774.29 | 774.31 | 774.31 | 774.27 | 774.30 | 774.21 | 774.06 | 774.35 | 774.64 | 774.87 | 775.07 | 775.23 |
| Min | 774.11 | 774.15 | 774.15 | 774.23 | 774.12 | 774.06 | 773.94 | 774.00 | 774.33 | 774.55 | 774.84 | 774.96 |

Year 2016 Statistics: Year Max ; Year Min

Note: Water level in ft bgs

^aEquipment malfunction. Not enough data points to calculate a daily average.

^bEquipment malfunction. No data available.

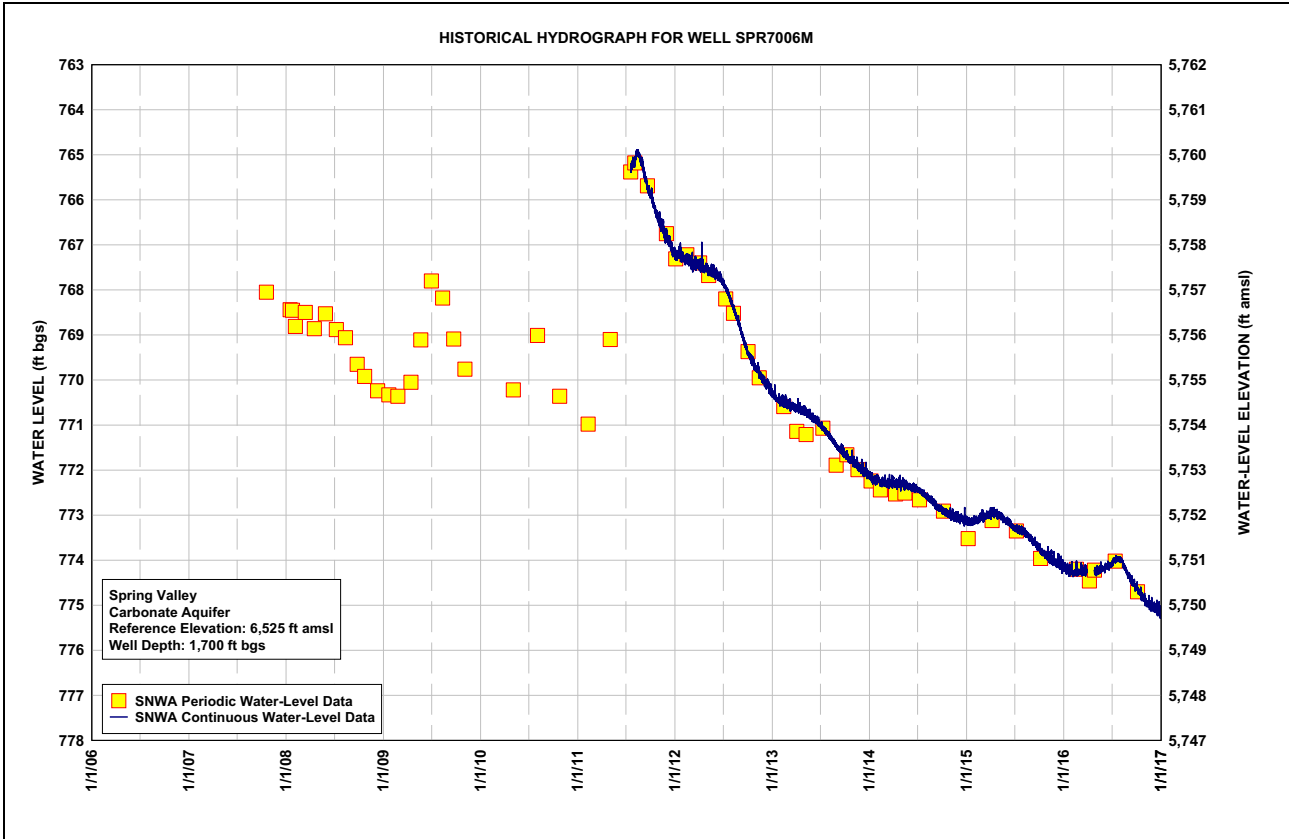
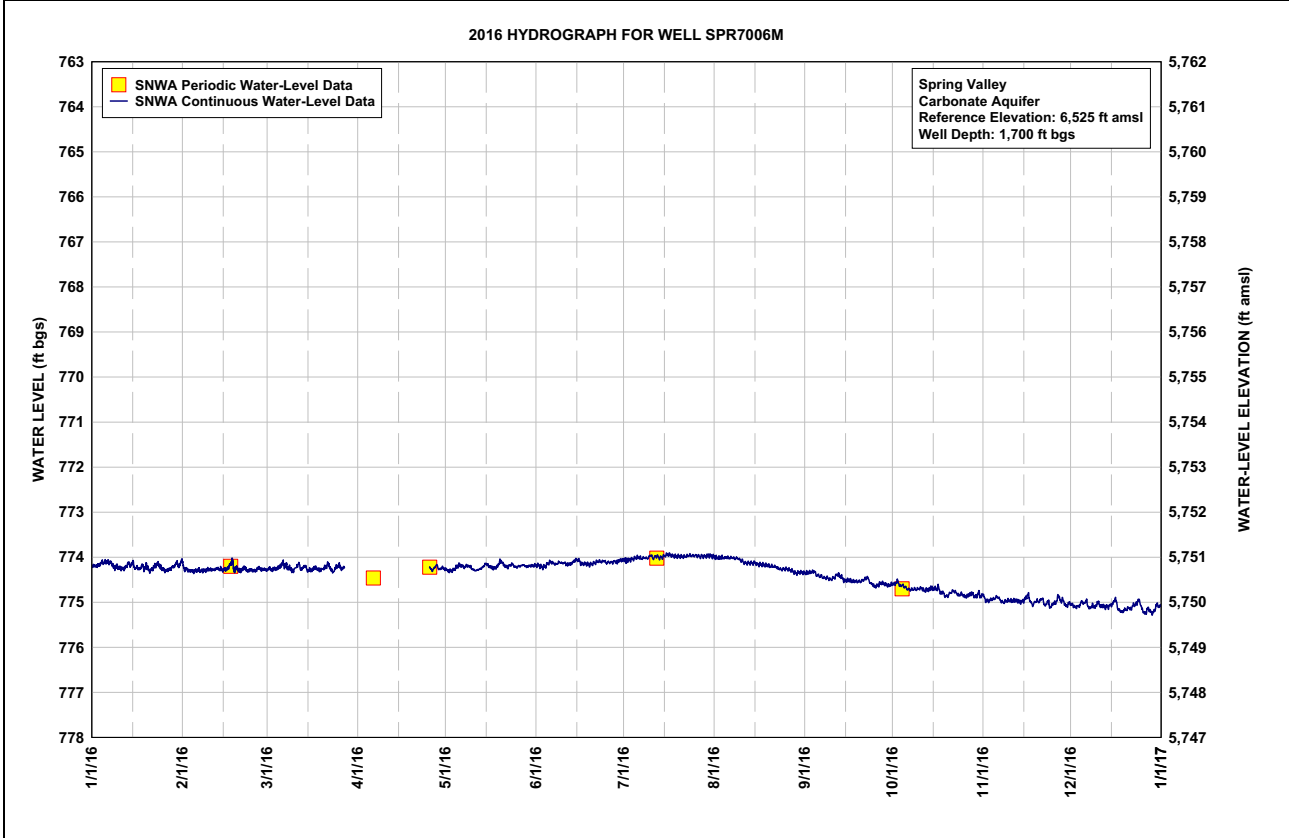


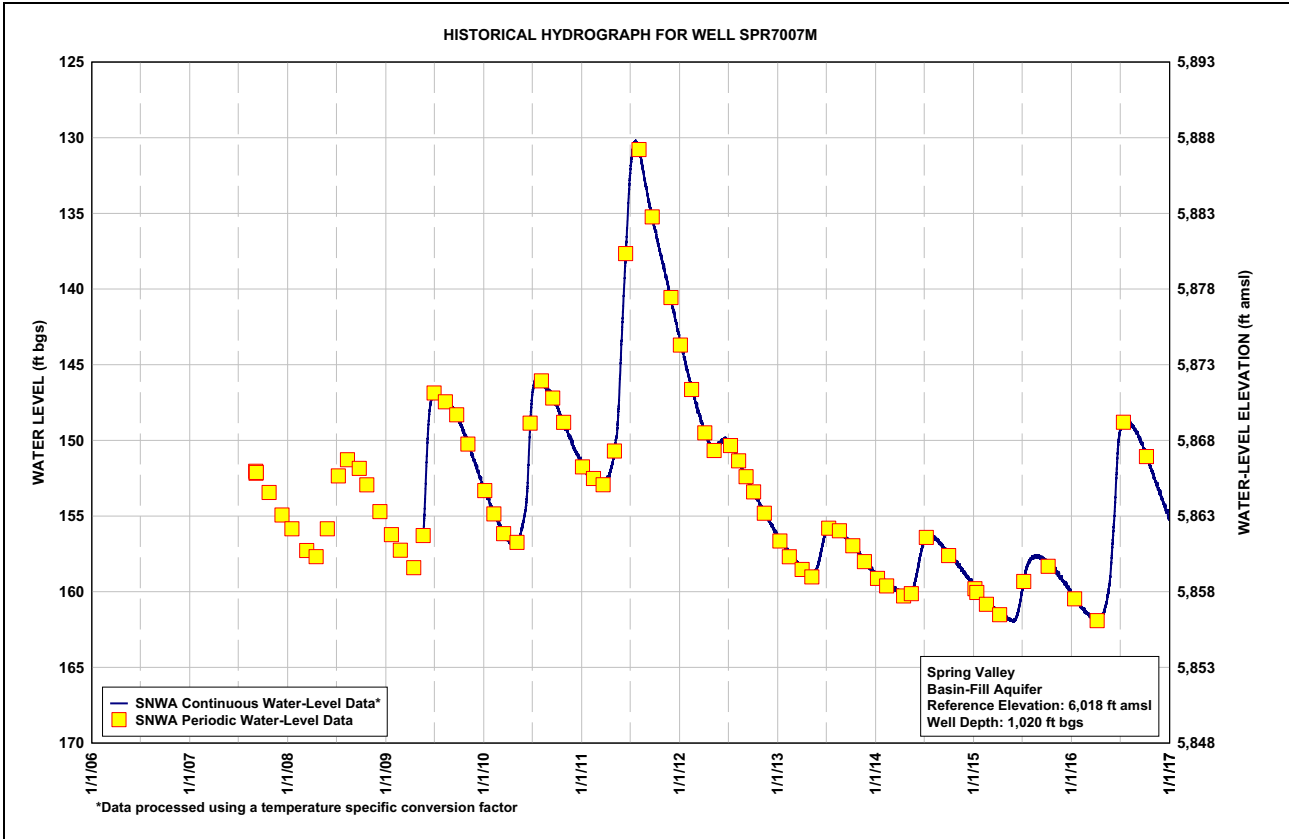
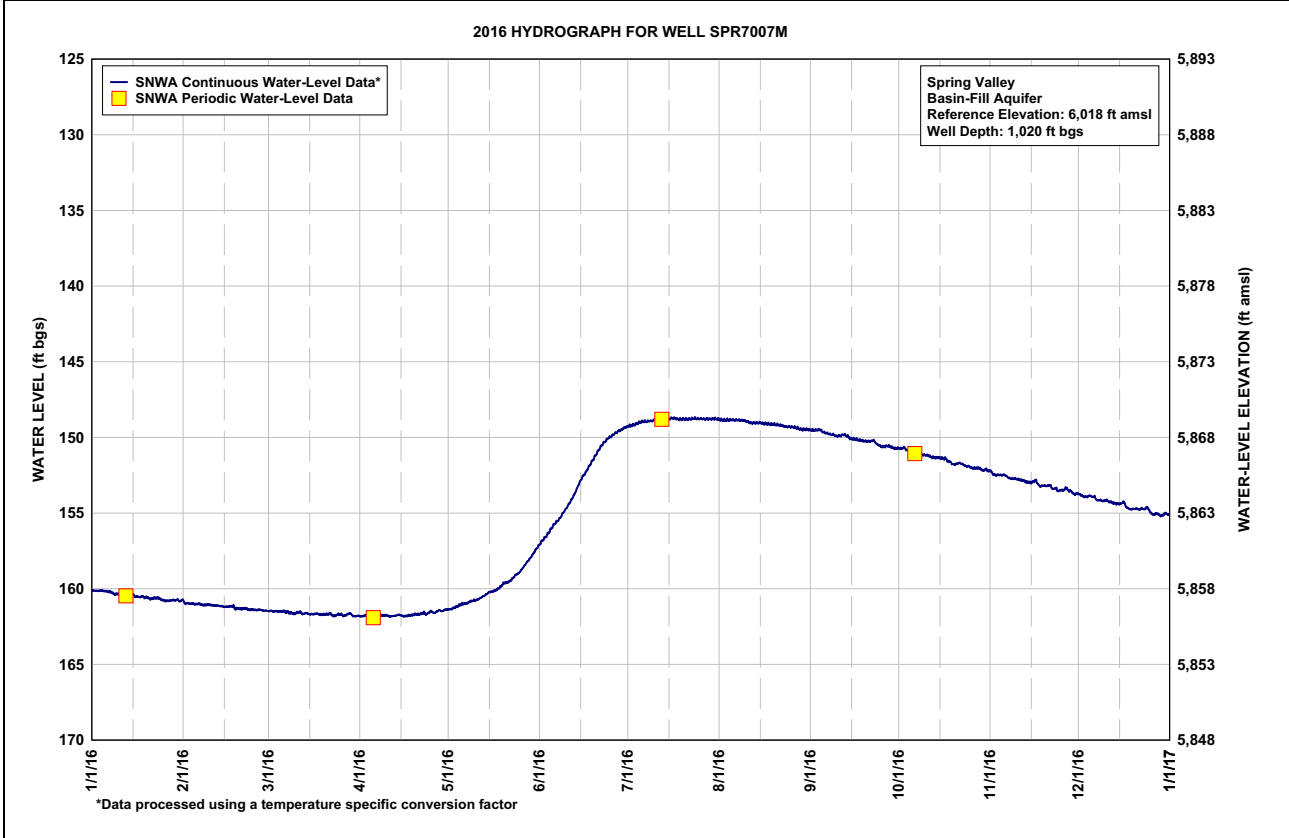


Table B-14
Spring Valley Well SPR7007M, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 160.12 | 160.94 | 161.47 | 161.82 | 161.35 | 156.96 | 149.26 | 148.84 | 149.52 | 150.72 | 152.29 | 153.76 |
| 2 | 160.13 | 160.96 | 161.50 | 161.79 | 161.30 | 156.73 | 149.20 | 148.87 | 149.52 | 150.69 | 152.45 | 153.88 |
| 3 | 160.14 | 160.98 | 161.49 | 161.77 | 161.23 | 156.52 | 149.15 | 148.85 | 149.51 | 150.82 | 152.48 | 153.91 |
| 4 | 160.12 | 160.99 | 161.49 | 161.79 | 161.13 | 156.25 | 149.08 | 148.86 | 149.51 | 150.85 | 152.48 | 153.87 |
| 5 | 160.16 | 161.02 | 161.49 | 161.82 | 161.03 | 155.93 | 149.00 | 148.84 | 149.66 | 150.92 | 152.48 | 153.91 |
| 6 | 160.19 | 161.00 | 161.49 | 161.81 | 160.99 | 155.68 | 148.96 | 148.87 | 149.72 | 151.05 | 152.53 | 153.93 |
| 7 | 160.21 | 161.05 | 161.54 | 161.74 | 160.94 | 155.47 | 148.97 | 148.86 | 149.79 | 151.11 | 152.68 | 154.15 |
| 8 | 160.33 | 161.06 | 161.60 | 161.75 | 160.84 | 155.20 | 148.94 | 148.88 | 149.82 | 151.13 | 152.74 | 154.15 |
| 9 | 160.34 | 161.05 | 161.63 | 161.77 | 160.80 | 154.88 | 148.91 | 148.90 | 149.88 | 151.18 | 152.73 | 154.20 |
| 10 | 160.38 | 161.07 | 161.60 | 161.78 | 160.76 | 154.58 | 148.79 | 148.96 | 149.90 | 151.19 | 152.77 | 154.15 |
| 11 | 160.41 | 161.10 | 161.55 | 161.84 | 160.69 | 154.26 | 148.86 | 149.02 | 149.88 | 151.23 | 152.82 | 154.26 |
| 12 | 160.40 | 161.11 | 161.66 | 161.80 | 160.55 | 153.89 | 148.81 | 149.05 | 149.83 | 151.31 | 152.87 | 154.29 |
| 13 | 160.36 | 161.14 | 161.62 | 161.76 | 160.44 | 153.50 | 148.85 | 149.04 | 149.90 | 151.34 | 152.93 | 154.34 |
| 14 | 160.42 | 161.17 | 161.65 | 161.73 | 160.29 | 153.05 | 148.85 | 149.03 | 150.06 | 151.33 | 152.96 | 154.38 |
| 15 | 160.50 | 161.19 | 161.69 | 161.79 | 160.21 | 152.65 | 148.77 | 149.05 | 150.10 | 151.35 | 152.94 | 154.35 |
| 16 | 160.52 | 161.18 | 161.67 | 161.81 | 160.16 | 152.41 | 148.73 | 149.10 | 150.13 | 151.39 | 152.86 | 154.30 |
| 17 | 160.54 | 161.16 | 161.65 | 161.78 | 160.06 | 152.06 | 148.75 | 149.11 | 150.18 | 151.54 | 153.14 | 154.63 |
| 18 | 160.51 | 161.30 | 161.70 | 161.75 | 159.93 | 151.74 | 148.80 | 149.14 | 150.21 | 151.62 | 153.21 | 154.73 |
| 19 | 160.56 | 161.30 | 161.71 | 161.71 | 159.73 | 151.43 | 148.80 | 149.14 | 150.25 | 151.77 | 153.19 | 154.73 |
| 20 | 160.62 | 161.32 | 161.69 | 161.69 | 159.59 | 151.09 | 148.79 | 149.18 | 150.28 | 151.75 | 153.20 | 154.71 |
| 21 | 160.66 | 161.31 | 161.66 | 161.67 | 159.56 | 150.78 | 148.81 | 149.20 | 150.26 | 151.71 | 153.17 | 154.75 |
| 22 | 160.60 | 161.30 | 161.73 | 161.61 | 159.44 | 150.48 | 148.79 | 149.23 | 150.24 | 151.76 | 153.40 | 154.70 |
| 23 | 160.60 | 161.38 | 161.78 | 161.66 | 159.22 | 150.28 | 148.77 | 149.29 | 150.42 | 151.87 | 153.38 | 154.73 |
| 24 | 160.70 | 161.37 | 161.71 | 161.59 | 159.04 | 150.04 | 148.77 | 149.29 | 150.53 | 151.91 | 153.53 | 154.64 |
| 25 | 160.76 | 161.40 | 161.70 | 161.54 | 158.87 | 149.95 | 148.77 | 149.30 | 150.61 | 151.98 | 153.49 | 154.96 |
| 26 | 160.80 | 161.39 | 161.77 | 161.59 | 158.60 | 149.77 | 148.77 | 149.33 | 150.60 | 152.04 | 153.39 | 155.10 |
| 27 | 160.78 | 161.40 | 161.74 | 161.49 | 158.31 | 149.65 | 148.78 | 149.38 | 150.57 | 152.03 | 153.49 | 155.04 |
| 28 | 160.75 | 161.45 | 161.63 | 161.47 | 158.07 | 149.53 | 148.79 | 149.45 | 150.63 | 152.04 | 153.54 | 155.12 |
| 29 | 160.76 | 161.47 | 161.78 | 161.44 | 157.78 | 149.40 | 148.78 | 149.48 | 150.70 | 152.16 | 153.72 | 155.15 |
| 30 | 160.80 | --- | 161.82 | 161.37 | 157.49 | 149.32 | 148.76 | 149.47 | 150.72 | 152.13 | 153.71 | 155.02 |
| 31 | 160.75 | --- | 161.79 | --- | 157.21 | --- | 148.79 | 149.49 | --- | 152.21 | --- | 155.08 |
| Max | 160.80 | 161.47 | 161.82 | 161.84 | 161.35 | 156.96 | 149.26 | 149.49 | 150.72 | 152.21 | 153.72 | 155.15 |
| Min | 160.12 | 160.94 | 161.47 | 161.37 | 157.21 | 149.32 | 148.73 | 148.84 | 149.51 | 150.69 | 152.29 | 153.76 |

Year 2016 Statistics: Year Max 161.84; Year Min 148.73

Note: Water level in ft bgs





**Table B-15
Spring Valley Well SPR7005M, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 497.45 | 497.64 | 497.79 | 497.84 | 497.71 | 497.49 | 497.06 | 496.77 | 496.73 | 496.84 | 497.09 | 497.37 |
| 2 | 497.44 | 497.71 | 497.80 | 497.79 | 497.74 | 497.50 | 497.06 | 496.77 | 496.70 | 496.75 | 497.22 | 497.45 |
| 3 | 497.41 | 497.75 | 497.78 | 497.76 | 497.71 | 497.52 | 497.04 | 496.75 | 496.67 | 496.86 | 497.18 | 497.44 |
| 4 | 497.35 | 497.75 | 497.75 | 497.76 | 497.63 | 497.48 | 497.02 | 496.73 | 496.65 | 496.86 | 497.14 | 497.34 |
| 5 | 497.36 | 497.78 | 497.71 | 497.82 | 497.58 | 497.39 | 496.98 | 496.71 | 496.76 | 496.89 | 497.09 | 497.36 |
| 6 | 497.36 | 497.73 | 497.67 | 497.84 | 497.58 | 497.37 | 496.97 | 496.69 | 496.78 | 496.96 | 497.12 | 497.33 |
| 7 | 497.37 | 497.78 | 497.71 | 497.70 | 497.63 | 497.42 | 496.98 | 496.70 | 496.81 | 496.96 | 497.23 | 497.52 |
| 8 | 497.51 | 497.78 | 497.78 | 497.67 | 497.59 | 497.39 | 496.97 | 496.69 | 496.80 | 496.94 | 497.22 | 497.49 |
| 9 | 497.54 | 497.73 | 497.85 | 497.67 | 497.62 | 497.37 | 496.94 | 496.69 | 496.83 | 496.93 | 497.19 | 497.49 |
| 10 | 497.55 | 497.71 | 497.80 | 497.67 | 497.70 | 497.38 | 496.88 | 496.73 | 496.80 | 496.90 | 497.19 | 497.41 |
| 11 | 497.57 | 497.73 | 497.71 | 497.78 | 497.72 | 497.40 | 496.94 | 496.78 | 496.73 | 496.92 | 497.20 | 497.48 |
| 12 | 497.53 | 497.72 | 497.77 | 497.76 | 497.67 | 497.39 | 496.90 | 496.76 | 496.69 | 496.96 | 497.20 | 497.49 |
| 13 | 497.44 | 497.73 | 497.73 | 497.70 | 497.62 | 497.32 | 496.95 | 496.73 | 496.72 | 496.94 | 497.24 | 497.51 |
| 14 | 497.46 | 497.74 | 497.75 | 497.64 | 497.51 | 497.26 | 496.90 | 496.70 | 496.84 | 496.89 | 497.24 | 497.51 |
| 15 | 497.50 | 497.76 | 497.84 | 497.73 | 497.53 | 497.26 | 496.84 | 496.72 | 496.84 | 496.90 | 497.15 | 497.45 |
| 16 | 497.55 | 497.71 | 497.81 | 497.80 | 497.60 | 497.35 | 496.83 | 496.72 | 496.82 | 496.87 | 497.07 | 497.34 |
| 17 | 497.58 | 497.64 | 497.75 | 497.79 | 497.63 | 497.35 | 496.85 | 496.72 | 496.83 | 497.00 | 497.27 | 497.63 |
| 18 | 497.52 | 497.71 | 497.78 | 497.76 | 497.60 | 497.34 | 496.88 | 496.73 | 496.84 | 497.01 | 497.30 | 497.72 |
| 19 | 497.57 | 497.78 | 497.80 | 497.70 | 497.46 | 497.33 | 496.87 | 496.71 | 496.84 | 497.12 | 497.26 | 497.67 |
| 20 | 497.61 | 497.82 | 497.75 | 497.68 | 497.44 | 497.28 | 496.86 | 496.71 | 496.81 | 497.02 | 497.23 | 497.60 |
| 21 | 497.65 | 497.79 | 497.71 | 497.68 | 497.55 | 497.25 | 496.85 | 496.71 | 496.76 | 496.96 | 497.17 | 497.61 |
| 22 | 497.56 | 497.75 | 497.73 | 497.62 | 497.57 | 497.21 | 496.82 | 496.72 | 496.72 | 496.97 | 497.33 | 497.53 |
| 23 | 497.50 | 497.82 | 497.84 | 497.73 | 497.51 | 497.21 | 496.80 | 496.75 | 496.86 | 497.04 | 497.29 | 497.52 |
| 24 | 497.57 | 497.80 | 497.74 | 497.65 | 497.52 | 497.19 | 496.79 | 496.73 | 496.93 | 497.04 | 497.39 | 497.40 |
| 25 | 497.66 | 497.81 | 497.70 | 497.56 | 497.57 | 497.22 | 496.78 | 496.72 | 496.96 | 497.07 | 497.33 | 497.65 |
| 26 | 497.71 | 497.79 | 497.77 | 497.71 | 497.53 | 497.18 | 496.79 | 496.72 | 496.89 | 497.08 | 497.18 | 497.80 |
| 27 | 497.67 | 497.74 | 497.73 | 497.64 | 497.50 | 497.15 | 496.79 | 496.73 | 496.84 | 497.03 | 497.22 | 497.71 |
| 28 | 497.59 | 497.79 | 497.55 | 497.64 | 497.53 | 497.15 | 496.77 | 496.78 | 496.86 | 497.01 | 497.26 | 497.75 |
| 29 | 497.55 | 497.79 | 497.64 | 497.69 | 497.52 | 497.11 | 496.76 | 496.78 | 496.89 | 497.08 | 497.41 | 497.74 |
| 30 | 497.54 | --- | 497.80 | 497.69 | 497.51 | 497.08 | 496.72 | 496.74 | 496.86 | 497.02 | 497.36 | 497.58 |
| 31 | 497.47 | --- | 497.79 | --- | 497.50 | --- | 496.75 | 496.73 | --- | 497.05 | --- | 497.60 |
| Max | 497.71 | 497.82 | 497.85 | 497.84 | 497.74 | 497.52 | 497.06 | 496.78 | 496.96 | 497.12 | 497.41 | 497.80 |
| Min | 497.35 | 497.64 | 497.55 | 497.56 | 497.44 | 497.08 | 496.72 | 496.69 | 496.65 | 496.75 | 497.07 | 497.33 |

Year 2016 Statistics: Year Max 497.85; Year Min 496.65

Note: Water level in ft bgs

^aSite inaccessible. Data currently unavailable.

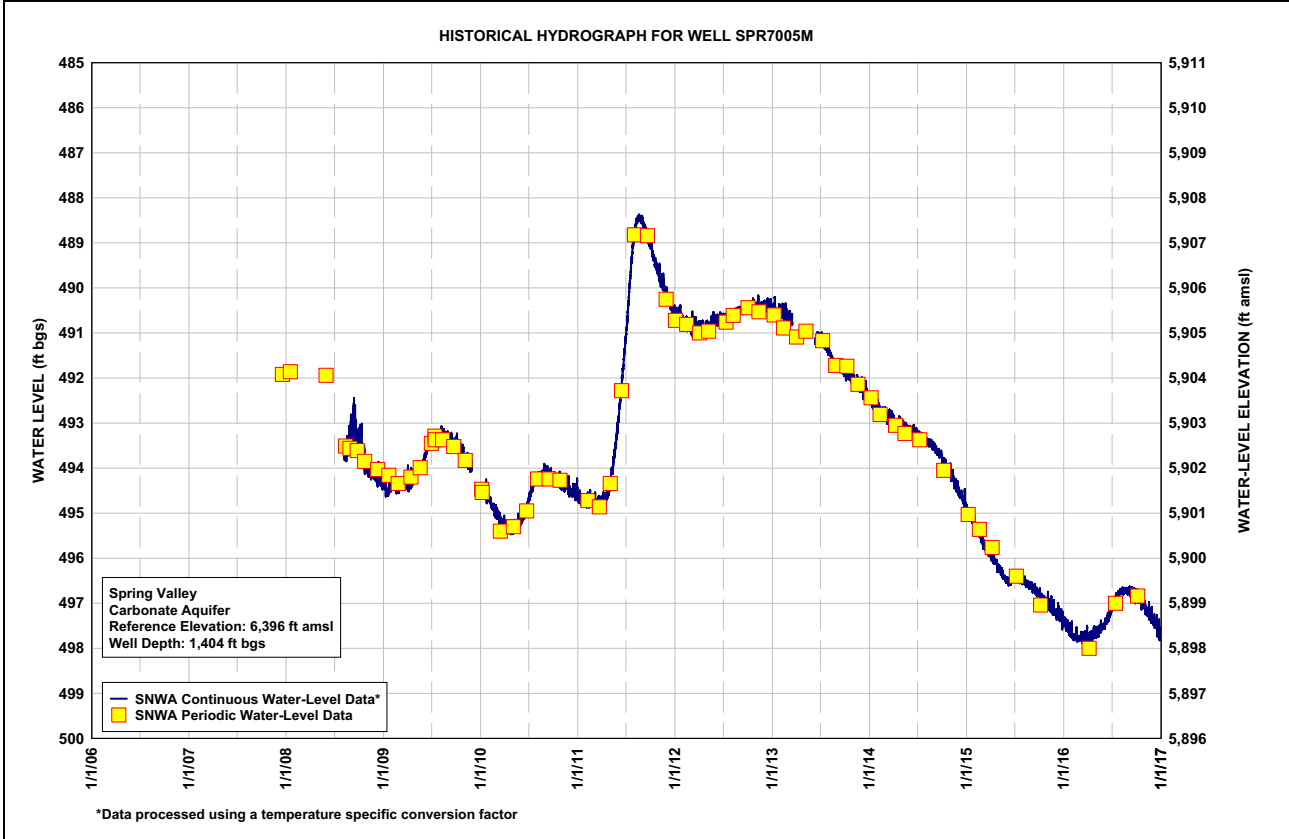
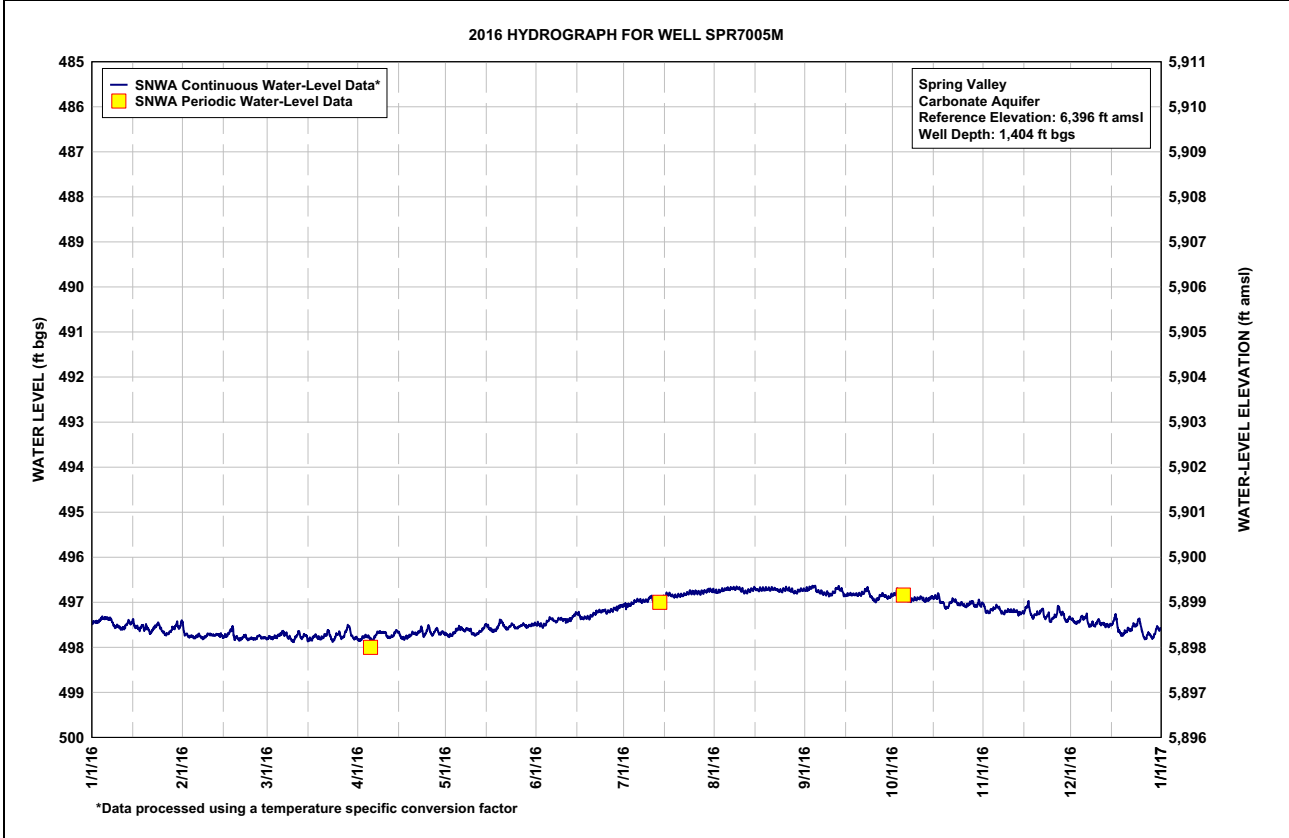




Table B-16
Spring Valley Well SPR7008M, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 14.86 | 14.85 | 14.66 | 14.78 | 14.75 | 14.68 | 14.78 | 14.86 | 14.90 | 14.95 | 15.12 | 15.14 |
| 2 | 14.85 | 14.87 | 14.67 | 14.74 | 14.75 | 14.71 | 14.79 | 14.86 | 14.89 | 14.90 | 15.17 | 15.20 |
| 3 | 14.82 | 14.91 | 14.64 | 14.72 | 14.73 | 14.72 | 14.79 | 14.85 | 14.87 | 14.97 | 15.15 | 15.17 |
| 4 | 14.76 | 14.88 | 14.63 | 14.72 | 14.68 | 14.70 | 14.78 | 14.85 | 14.87 | 15.00 | 15.11 | 15.08 |
| 5 | 14.76 | 14.90 | 14.60 | 14.76 | 14.64 | 14.66 | 14.78 | 14.84 | 14.95 | 15.05 | 15.07 | 15.12 |
| 6 | 14.75 | 14.86 | 14.57 | 14.76 | 14.65 | 14.66 | 14.79 | 14.85 | 14.94 | 15.10 | 15.10 | 15.12 |
| 7 | 14.76 | 14.88 | 14.62 | 14.68 | 14.67 | 14.69 | 14.82 | 14.84 | 14.97 | 15.08 | 15.17 | 15.25 |
| 8 | 14.85 | 14.87 | 14.68 | 14.65 | 14.64 | 14.70 | 14.81 | 14.83 | 14.96 | 15.07 | 15.15 | 15.19 |
| 9 | 14.87 | 14.82 | 14.71 | 14.67 | 14.66 | 14.69 | 14.81 | 14.84 | 14.98 | 15.04 | 15.12 | 15.18 |
| 10 | 14.88 | 14.81 | 14.67 | 14.69 | 14.74 | 14.71 | 14.77 | 14.89 | 14.94 | 15.04 | 15.12 | 15.09 |
| 11 | 14.90 | 14.81 | 14.58 | 14.75 | 14.74 | 14.74 | 14.82 | 14.91 | 14.88 | 15.06 | 15.11 | 15.16 |
| 12 | 14.86 | 14.80 | 14.68 | 14.74 | 14.69 | 14.75 | 14.81 | 14.90 | 14.88 | 15.08 | 15.11 | 15.15 |
| 13 | 14.75 | 14.80 | 14.65 | 14.69 | 14.65 | 14.70 | 14.85 | 14.89 | 14.92 | 15.05 | 15.14 | 15.15 |
| 14 | 14.80 | 14.78 | 14.67 | 14.67 | 14.59 | 14.67 | 14.82 | 14.86 | 14.99 | 15.00 | 15.11 | 15.14 |
| 15 | 14.84 | 14.79 | 14.72 | 14.76 | 14.63 | 14.69 | 14.79 | 14.88 | 14.99 | 15.01 | 15.04 | 15.08 |
| 16 | 14.85 | 14.74 | 14.70 | 14.78 | 14.68 | 14.77 | 14.80 | 14.88 | 14.97 | 15.00 | 14.98 | 15.05 |
| 17 | 14.85 | 14.66 | 14.66 | 14.76 | 14.69 | 14.77 | 14.82 | 14.88 | 14.97 | 15.09 | 15.17 | 15.25 |
| 18 | 14.79 | 14.77 | 14.69 | 14.74 | 14.66 | 14.77 | 14.85 | 14.89 | 14.96 | 15.11 | 15.14 | 15.29 |
| 19 | 14.84 | 14.75 | 14.71 | 14.72 | 14.58 | 14.79 | 14.85 | 14.88 | 14.95 | 15.16 | 15.11 | 15.22 |
| 20 | 14.87 | 14.76 | 14.68 | 14.71 | 14.58 | 14.77 | 14.85 | 14.89 | 14.94 | 15.08 | 15.08 | 15.17 |
| 21 | 14.90 | 14.72 | 14.63 | 14.71 | 14.67 | 14.75 | 14.85 | 14.88 | 14.90 | 15.03 | 15.06 | 15.18 |
| 22 | 14.80 | 14.68 | 14.69 | 14.66 | 14.67 | 14.74 | 14.84 | 14.88 | 14.90 | 15.05 | 15.17 | 15.12 |
| 23 | 14.75 | 14.74 | 14.77 | 14.75 | 14.64 | 14.77 | 14.84 | 14.91 | 15.00 | 15.10 | 15.12 | 15.10 |
| 24 | 14.82 | 14.71 | 14.68 | 14.70 | 14.67 | 14.76 | 14.84 | 14.89 | 15.04 | 15.08 | 15.21 | 15.00 |
| 25 | 14.88 | 14.71 | 14.65 | 14.69 | 14.69 | 14.81 | 14.82 | 14.89 | 15.05 | 15.11 | 15.13 | 15.22 |
| 26 | 14.91 | 14.68 | 14.73 | 14.76 | 14.67 | 14.78 | 14.83 | 14.90 | 14.99 | 15.12 | 15.04 | 15.29 |
| 27 | 14.88 | 14.65 | 14.69 | 14.70 | 14.66 | 14.76 | 14.83 | 14.91 | 14.95 | 15.06 | 15.09 | 15.19 |
| 28 | 14.80 | 14.68 | 14.58 | 14.73 | 14.69 | 14.80 | 14.83 | 14.93 | 14.97 | 15.04 | 15.09 | 15.23 |
| 29 | 14.77 | 14.67 | 14.69 | 14.74 | 14.68 | 14.77 | 14.83 | 14.93 | 14.99 | 15.09 | 15.19 | 15.23 |
| 30 | 14.79 | --- | 14.76 | 14.74 | 14.68 | 14.78 | 14.83 | 14.90 | 14.96 | 15.02 | 15.12 | 15.07 |
| 31 | 14.71 | --- | 14.74 | --- | 14.68 | --- | 14.85 | 14.90 | --- | 15.08 | --- | 15.13 |
| Max | 14.91 | 14.91 | 14.77 | 14.78 | 14.75 | 14.81 | 14.85 | 14.93 | 15.05 | 15.16 | 15.21 | 15.29 |
| Min | 14.71 | 14.65 | 14.57 | 14.65 | 14.58 | 14.66 | 14.77 | 14.83 | 14.87 | 14.90 | 14.98 | 15.00 |

Year 2016 Statistics: Year Max 15.29; Year Min 14.57

Note: Water level in ft bgs

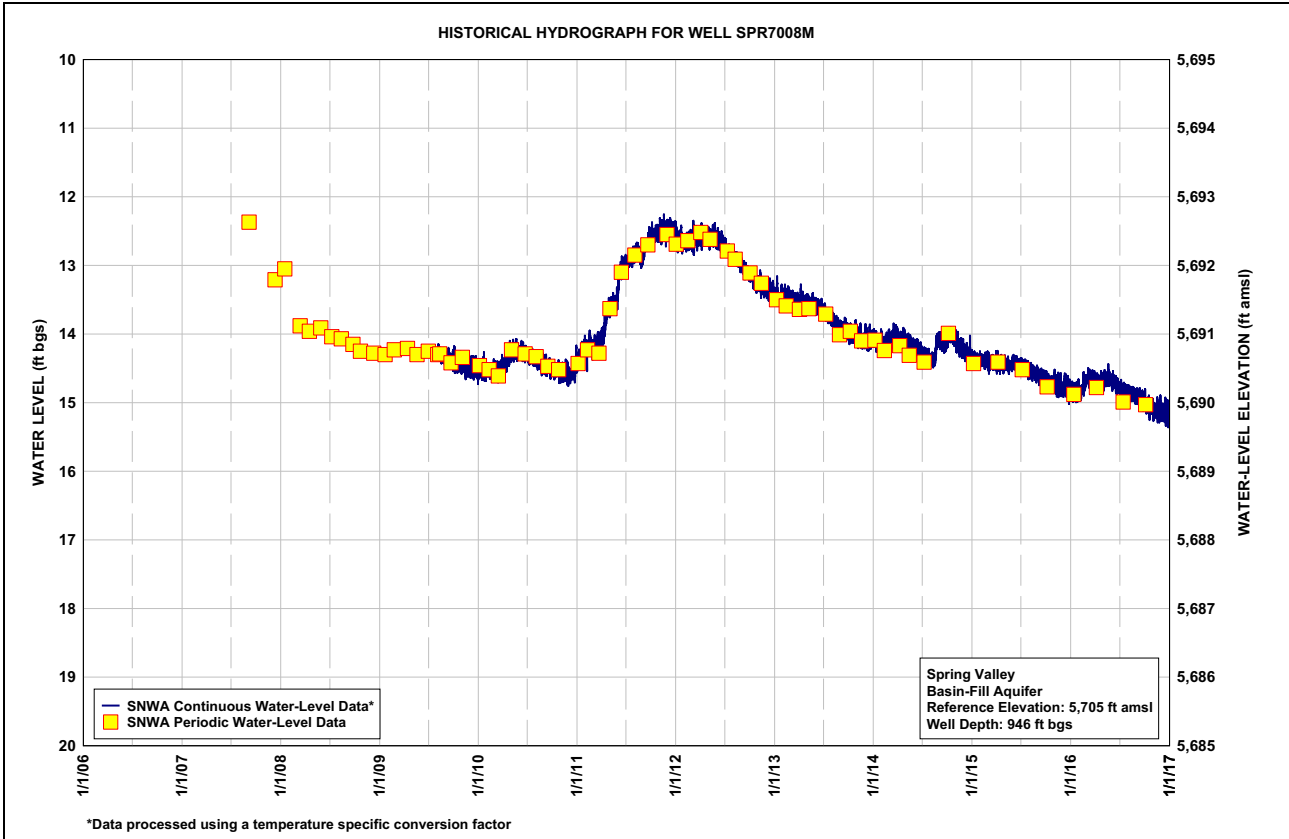
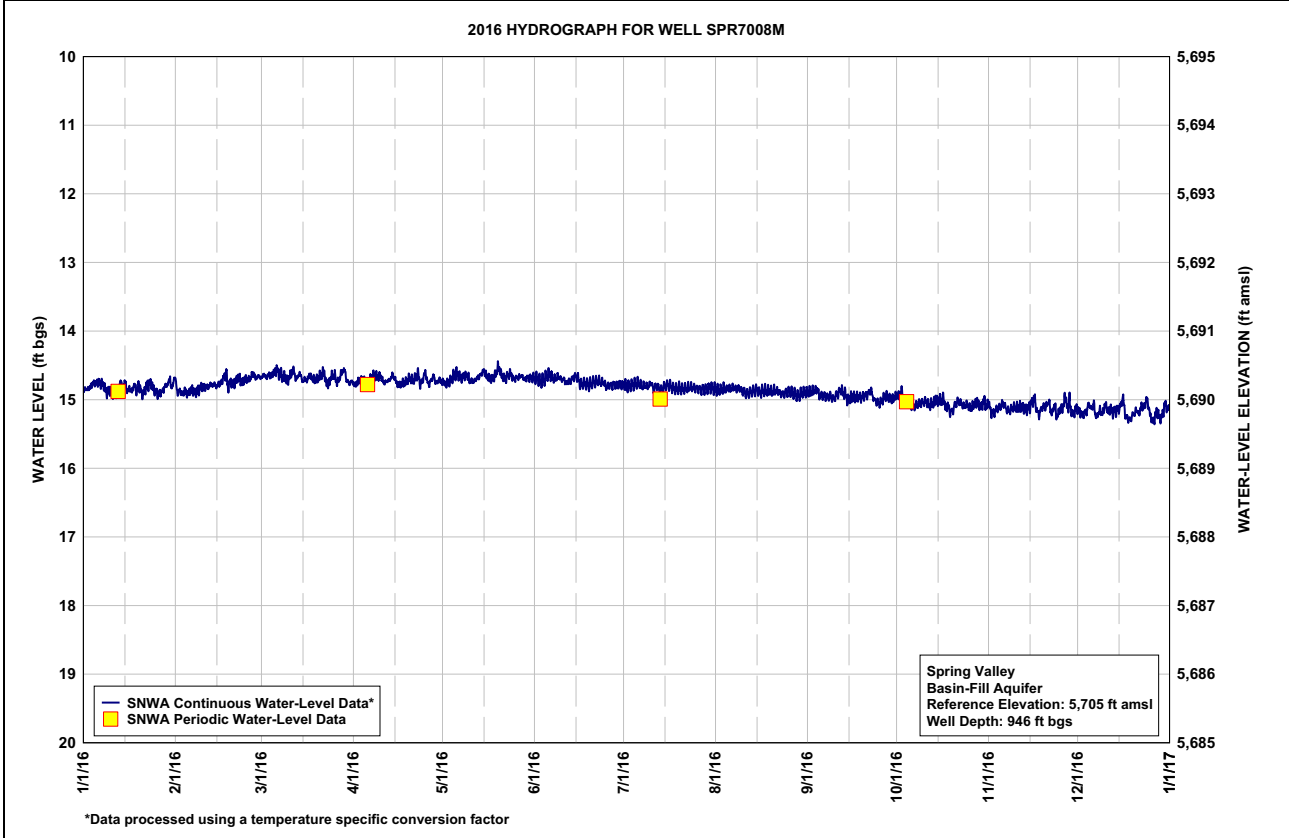




Table B-17
Spring Valley Well SPR7024M, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 28.75 | 28.65 | 28.59 | 28.57 | 28.84 | 29.27 | 29.52 | 29.64 | 30.03 | 30.37 | 30.70 | 30.67 |
| 2 | 28.75 | 28.68 | 28.58 | 28.56 | 28.86 | 29.29 | 29.52 | 29.65 | 30.04 | 30.36 | 30.73 | 30.69 |
| 3 | 28.73 | 28.69 | 28.57 | 28.54 | 28.86 | 29.31 | 29.52 | 29.64 | 30.04 | 30.41 | 30.73 | 30.69 |
| 4 | 28.71 | 28.69 | 28.56 | 28.54 | 28.86 | 29.32 | 29.52 | 29.64 | 30.06 | 30.41 | 30.72 | 30.65 |
| 5 | 28.70 | 28.69 | 28.55 | 28.55 | 28.86 | 29.31 | 29.52 | 29.64 | 30.10 | 30.43 | 30.71 | 30.65 |
| 6 | 28.69 | 28.67 | 28.52 | 28.55 | 28.88 | 29.32 | 29.54 | 29.65 | 30.12 | 30.46 | 30.72 | 30.65 |
| 7 | 28.68 | 28.68 | 28.54 | 28.54 | 28.90 | 29.35 | 29.57 | 29.66 | 30.14 | 30.46 | 30.75 | 30.70 |
| 8 | 28.72 | 28.68 | 28.56 | 28.54 | 28.91 | 29.37 | 29.58 | 29.67 | 30.15 | 30.46 | 30.75 | 30.69 |
| 9 | 28.73 | 28.66 | 28.60 | 28.57 | 28.92 | 29.37 | 29.59 | 29.68 | 30.17 | 30.46 | 30.74 | 30.68 |
| 10 | 28.73 | 28.65 | 28.56 | 28.59 | 28.97 | 29.39 | 29.56 | 29.70 | 30.17 | 30.46 | 30.73 | 30.65 |
| 11 | 28.74 | 28.65 | 28.53 | 28.62 | 28.99 | 29.40 | 29.59 | 29.72 | 30.16 | 30.47 | 30.72 | 30.66 |
| 12 | 28.72 | 28.64 | 28.55 | 28.63 | 28.99 | 29.41 | 29.59 | 29.73 | 30.16 | 30.50 | 30.71 | 30.66 |
| 13 | 28.69 | 28.64 | 28.55 | 28.63 | 28.99 | 29.41 | 29.61 | 29.74 | 30.19 | 30.51 | 30.71 | 30.66 |
| 14 | 28.70 | 28.64 | 28.56 | 28.60 | 28.98 | 29.40 | 29.61 | 29.75 | 30.23 | 30.51 | 30.71 | 30.65 |
| 15 | 28.70 | 28.64 | 28.58 | 28.63 | 29.00 | 29.42 | 29.60 | 29.76 | 30.24 | 30.52 | 30.68 | 30.62 |
| 16 | 28.72 | 28.62 | 28.57 | 28.67 | 29.04 | 29.45 | 29.59 | 29.78 | 30.24 | 30.53 | 30.64 | 30.58 |
| 17 | 28.72 | 28.59 | 28.55 | 28.69 | 29.06 | 29.46 | 29.61 | 29.80 | 30.25 | 30.58 | 30.71 | 30.67 |
| 18 | 28.69 | 28.59 | 28.56 | 28.70 | 29.07 | 29.47 | 29.62 | 29.82 | 30.26 | 30.61 | 30.71 | 30.70 |
| 19 | 28.70 | 28.62 | 28.57 | 28.68 | 29.05 | 29.48 | 29.62 | 29.83 | 30.27 | 30.64 | 30.70 | 30.67 |
| 20 | 28.71 | 28.62 | 28.55 | 28.69 | 29.06 | 29.49 | 29.61 | 29.85 | 30.27 | 30.62 | 30.67 | 30.64 |
| 21 | 28.72 | 28.62 | 28.52 | 28.71 | 29.11 | 29.49 | 29.62 | 29.87 | 30.26 | 30.61 | 30.66 | 30.64 |
| 22 | 28.69 | 28.60 | 28.53 | 28.70 | 29.13 | 29.50 | 29.61 | 29.89 | 30.26 | 30.62 | 30.71 | 30.62 |
| 23 | 28.66 | 28.62 | 28.57 | 28.75 | 29.13 | 29.51 | 29.61 | 29.91 | 30.32 | 30.64 | 30.69 | 30.61 |
| 24 | 28.68 | 28.61 | 28.54 | 28.74 | 29.15 | 29.52 | 29.61 | 29.92 | 30.34 | 30.64 | 30.71 | 30.53 |
| 25 | 28.71 | 28.61 | 28.53 | 28.72 | 29.17 | 29.54 | 29.61 | 29.93 | 30.34 | 30.65 | 30.69 | 30.63 |
| 26 | 28.72 | 28.60 | 28.57 | 28.78 | 29.18 | 29.53 | 29.61 | 29.94 | 30.33 | 30.66 | 30.64 | 30.66 |
| 27 | 28.70 | 28.58 | 28.57 | 28.77 | 29.18 | 29.52 | 29.62 | 29.96 | 30.32 | 30.66 | 30.65 | 30.63 |
| 28 | 28.68 | 28.59 | 28.52 | 28.78 | 29.21 | 29.52 | 29.62 | 29.99 | 30.34 | 30.65 | 30.65 | 30.64 |
| 29 | 28.66 | 28.59 | 28.54 | 28.80 | 29.22 | 29.51 | 29.62 | 30.00 | 30.36 | 30.68 | 30.70 | 30.63 |
| 30 | 28.64 | --- | 28.57 | 28.81 | 29.23 | 29.52 | 29.62 | 30.01 | 30.36 | 30.66 | 30.68 | 30.57 |
| 31 | 28.62 | --- | 28.56 | --- | 29.25 | --- | 29.63 | 30.01 | --- | 30.68 | --- | 30.58 |
| Max | 28.75 | 28.69 | 28.60 | 28.81 | 29.25 | 29.54 | 29.63 | 30.01 | 30.36 | 30.68 | 30.75 | 30.70 |
| Min | 28.62 | 28.58 | 28.52 | 28.54 | 28.84 | 29.27 | 29.52 | 29.64 | 30.03 | 30.36 | 30.64 | 30.53 |

Year 2016 Statistics: Year Max 30.75; Year Min 28.52

Note: Water level in ft bgs

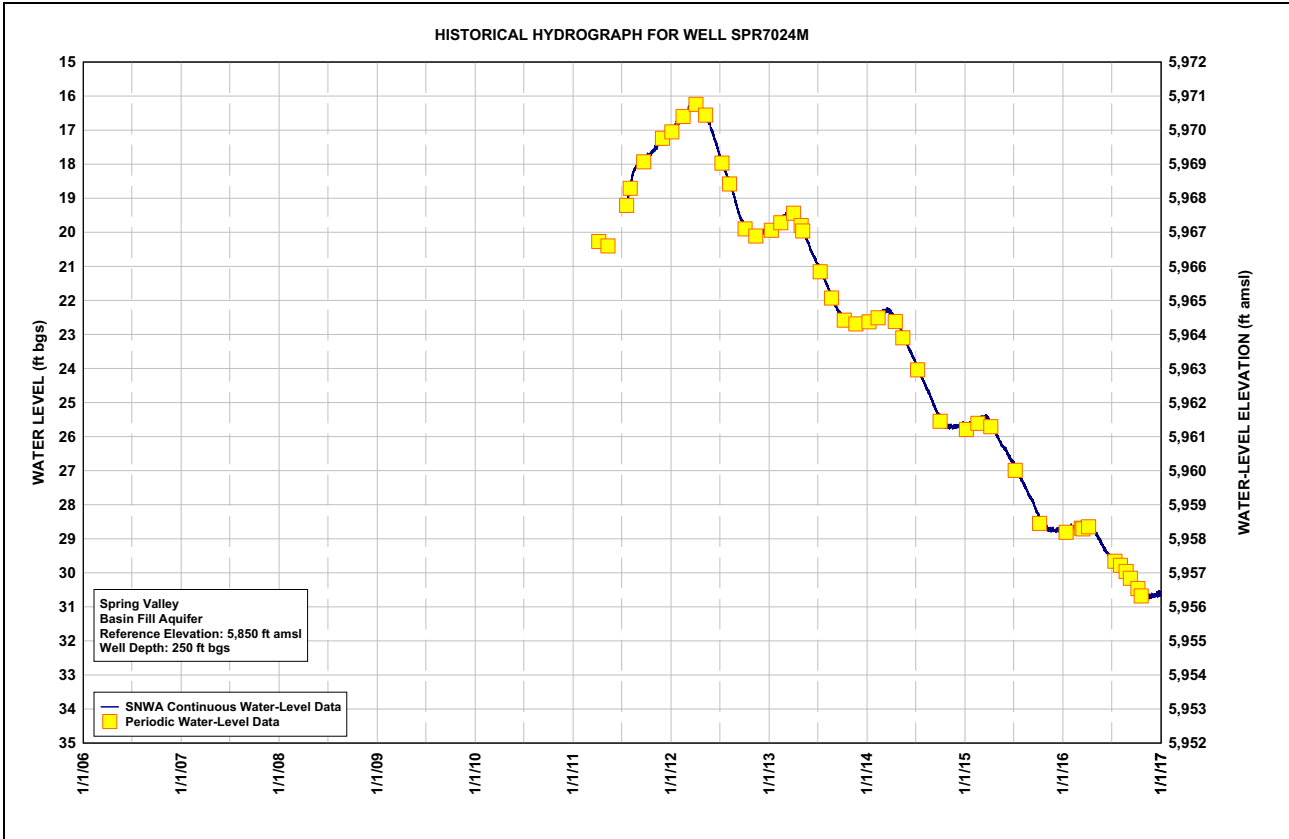
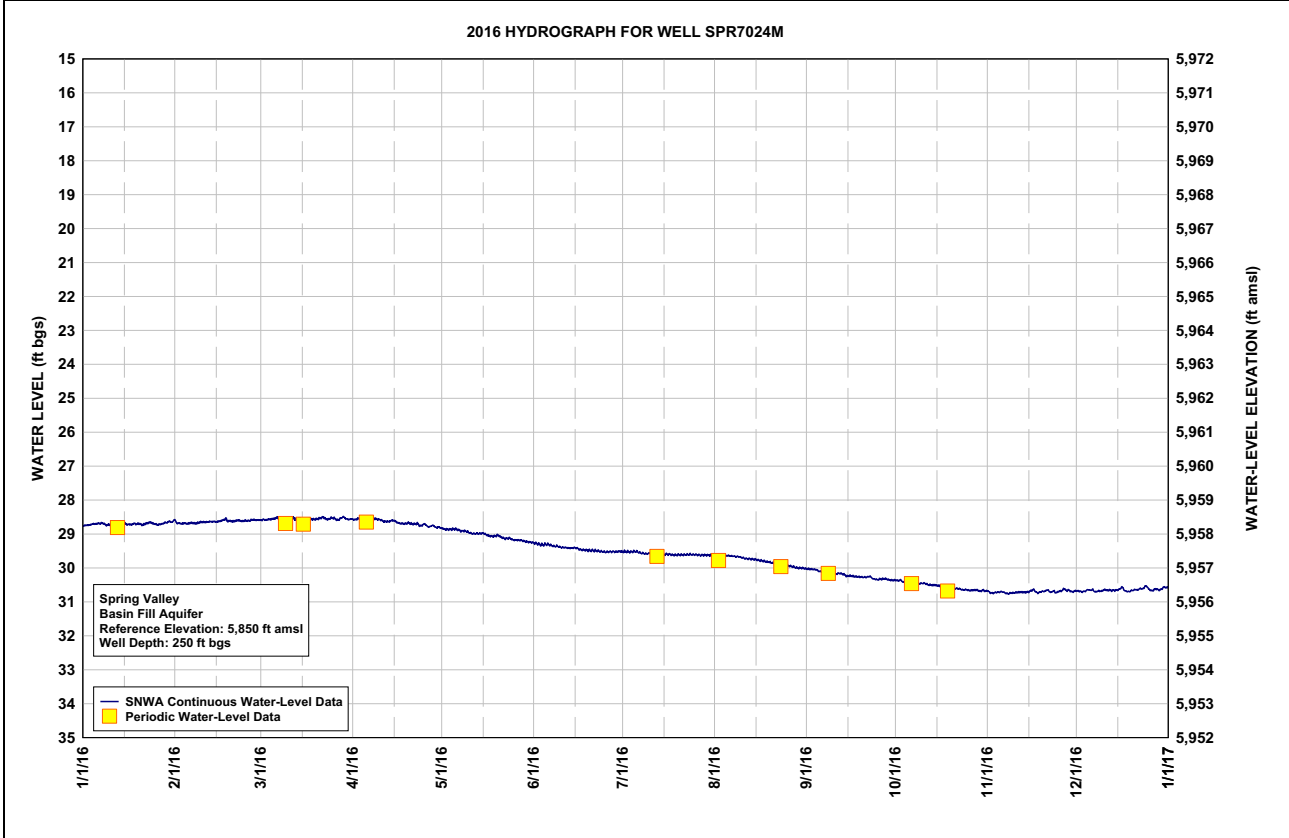


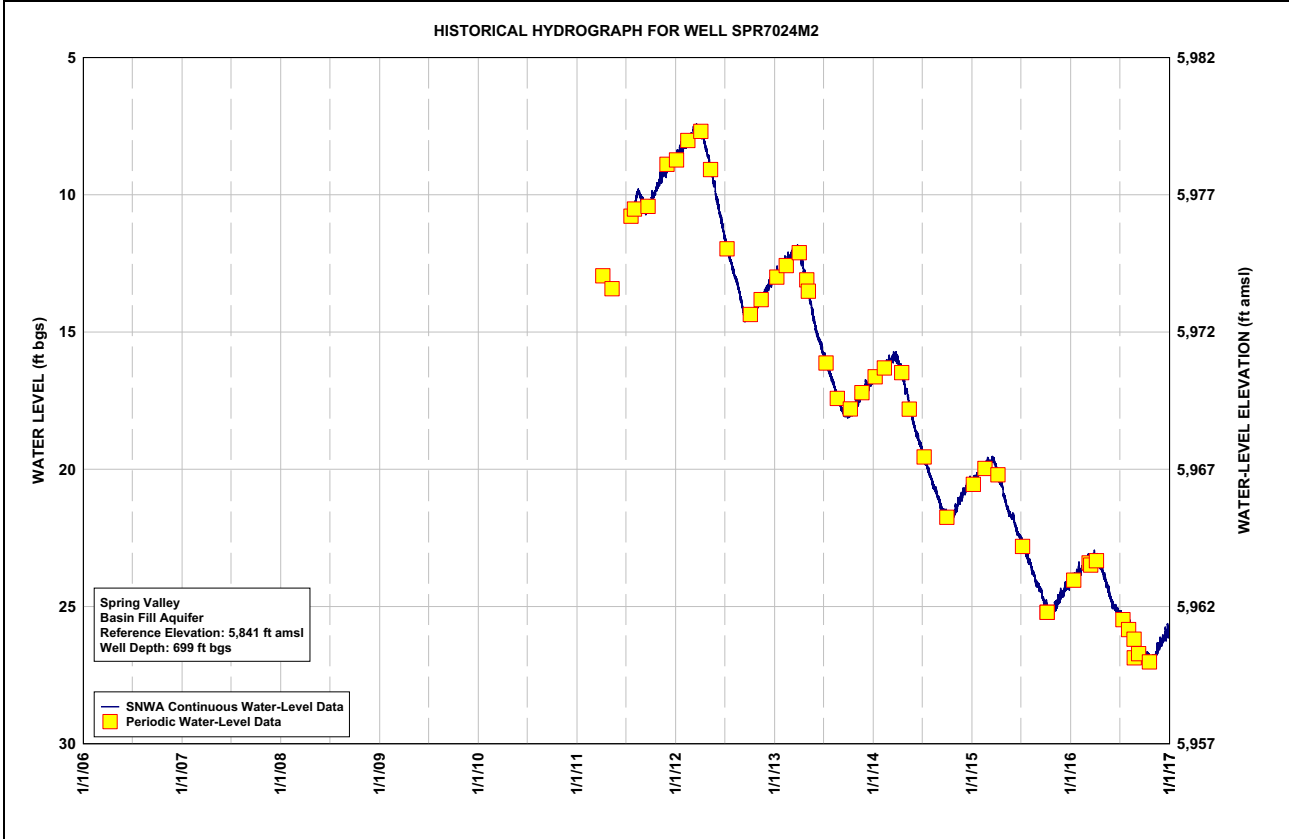
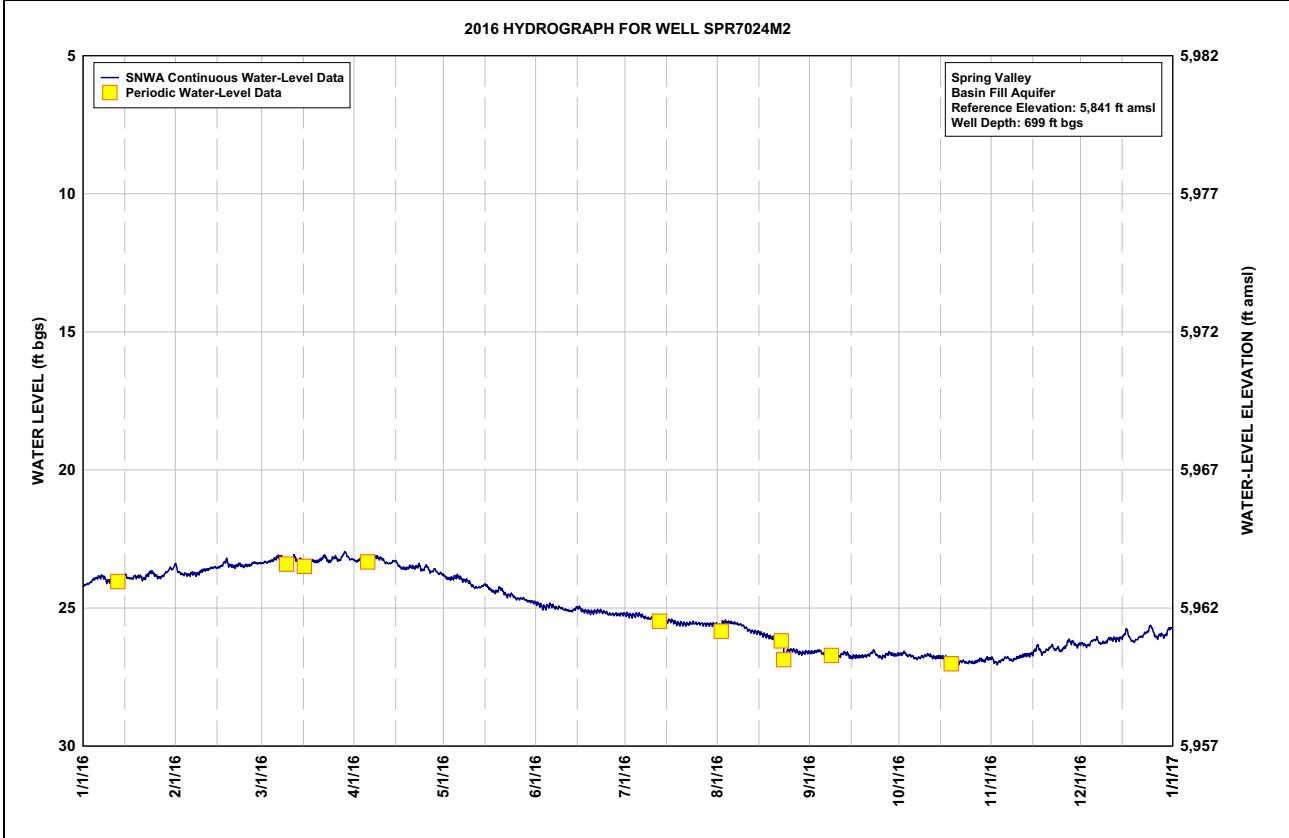


Table B-18
Spring Valley Well SPR7024M2, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 24.17 | 23.53 | 23.37 | 23.30 | 23.84 | 24.83 | 25.23 | 25.65 | 26.61 | 26.67 | 26.85 | 26.28 |
| 2 | 24.14 | 23.71 | 23.35 | 23.27 | 23.93 | 24.88 | 25.26 | 25.63 | 26.60 | 26.63 | 26.97 | 26.33 |
| 3 | 24.07 | 23.78 | 23.32 | 23.22 | 23.93 | 24.95 | 25.26 | 25.51 | 26.57 | 26.69 | 26.96 | 26.33 |
| 4 | 23.97 | 23.76 | 23.29 | 23.20 | 23.91 | 24.96 | 25.25 | 25.52 | 26.55 | 26.71 | 26.89 | 26.22 |
| 5 | 23.92 | 23.80 | 23.22 | 23.24 | 23.86 | 24.92 | 25.23 | 25.52 | 26.65 | 26.74 | 26.80 | 26.17 |
| 6 | 23.88 | 23.74 | 23.13 | 23.28 | 23.89 | 24.90 | 25.26 | 25.55 | 26.69 | 26.81 | 26.81 | 26.14 |
| 7 | 23.84 | 23.75 | 23.16 | 23.19 | 23.98 | 24.96 | 25.32 | 25.56 | 26.74 | 26.80 | 26.87 | 26.27 |
| 8 | 23.95 | 23.76 | 23.24 | 23.15 | 23.99 | 25.01 | 25.36 | 25.60 | 26.74 | 26.76 | 26.87 | 26.27 |
| 9 | 24.02 | 23.68 | 23.36 | 23.19 | 24.03 | 24.99 | 25.40 | 25.63 | 26.78 | 26.73 | 26.82 | 26.24 |
| 10 | 24.03 | 23.63 | 23.31 | 23.22 | 24.16 | 25.06 | 25.34 | 25.71 | 26.78 | 26.70 | 26.78 | 26.13 |
| 11 | 24.07 | 23.61 | 23.21 | 23.34 | 24.25 | 25.08 | 25.43 | 25.80 | 26.72 | 26.72 | 26.73 | 26.12 |
| 12 | 24.03 | 23.58 | 23.25 | 23.38 | 24.26 | 25.11 | 25.42 | 25.83 | 26.64 | 26.78 | 26.70 | 26.11 |
| 13 | 23.88 | 23.55 | 23.27 | 23.37 | 24.24 | 25.09 | 25.50 | 25.85 | 26.65 | 26.79 | 26.70 | 26.11 |
| 14 | 23.88 | 23.53 | 23.26 | 23.30 | 24.18 | 25.02 | 25.50 | 25.87 | 26.77 | 26.77 | 26.66 | 26.08 |
| 15 | 23.82 | 23.54 | 23.36 | 23.36 | 24.18 | 24.99 | 25.48 | 25.91 | 26.77 | 26.78 | 26.56 | 25.99 |
| 16 | 23.92 | 23.47 | 23.35 | 23.51 | 24.30 | 25.08 | 25.45 | 25.96 | 26.75 | 26.79 | 26.38 | 25.81 |
| 17 | 23.93 | 23.36 | 23.28 | 23.56 | 24.38 | 25.10 | 25.51 | 25.99 | 26.76 | 26.91 | 26.53 | 26.06 |
| 18 | 23.84 | 23.31 | 23.29 | 23.57 | 24.41 | 25.13 | 25.55 | 26.04 | 26.75 | 26.98 | 26.60 | 26.20 |
| 19 | 23.87 | 23.45 | 23.32 | 23.53 | 24.37 | 25.14 | 25.56 | 26.08 | 26.73 | 27.10 | 26.52 | 26.15 |
| 20 | 23.87 | 23.49 | 23.27 | 23.51 | 24.30 | 25.14 | 25.56 | 26.13 | 26.71 | 27.05 | 26.45 | 26.06 |
| 21 | 23.94 | 23.48 | 23.18 | 23.53 | 24.47 | 25.12 | 25.58 | 26.17 | 26.64 | 26.94 | 26.39 | 26.04 |
| 22 | 23.82 | 23.41 | 23.16 | 23.49 | 24.53 | 25.11 | 25.57 | 26.21 | 26.58 | 26.94 | 26.51 | 25.93 |
| 23 | 23.71 | 23.47 | 23.30 | 23.60 | 24.53 | 25.13 | 25.56 | 26.67 | 26.69 | 26.98 | 26.46 | 25.87 |
| 24 | 23.73 | 23.47 | 23.26 | 23.60 | 24.57 | 25.16 | 25.56 | 26.54 | 26.77 | 26.96 | 26.54 | 25.66 |
| 25 | 23.83 | 23.46 | 23.17 | 23.51 | 24.64 | 25.23 | 25.56 | 26.51 | 26.78 | 26.96 | 26.45 | 25.86 |
| 26 | 23.89 | 23.43 | 23.24 | 23.67 | 24.66 | 25.23 | 25.56 | 26.53 | 26.73 | 26.97 | 26.29 | 26.05 |
| 27 | 23.86 | 23.36 | 23.26 | 23.67 | 24.66 | 25.22 | 25.57 | 26.57 | 26.66 | 26.92 | 26.21 | 25.99 |
| 28 | 23.76 | 23.38 | 23.06 | 23.65 | 24.70 | 25.23 | 25.58 | 26.62 | 26.66 | 26.86 | 26.21 | 25.97 |
| 29 | 23.67 | 23.37 | 23.07 | 23.76 | 24.76 | 25.22 | 25.59 | 26.63 | 26.70 | 26.91 | 26.35 | 25.99 |
| 30 | 23.58 | --- | 23.23 | 23.76 | 24.77 | 25.22 | 25.58 | 26.61 | 26.69 | 26.84 | 26.32 | 25.78 |
| 31 | 23.52 | --- | 23.23 | --- | 24.80 | --- | 25.61 | 26.60 | --- | 26.84 | --- | 25.73 |
| Max | 24.17 | 23.80 | 23.37 | 23.76 | 24.80 | 25.23 | 25.61 | 26.67 | 26.78 | 27.10 | 26.97 | 26.33 |
| Min | 23.52 | 23.31 | 23.06 | 23.15 | 23.84 | 24.83 | 25.23 | 25.51 | 26.55 | 26.63 | 26.21 | 25.66 |

Year 2016 Statistics: Year Max 27.10; Year Min 23.06

Note: Water level in ft bgs





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Appendix C

SV3M Plan

Spring-Discharge and Piezometer Data

Table C-1
Spring Valley Miscellaneous Discharge Data
 (Page 1 of 3)

| Spring Number | Spring Name | Date | Time | Discharge ^a (gpm) | Discharge ^a (cfs) | Measurement Rated as: (E, G, F, P) ^b | Water Temp (° C) | Air Temp (° C) | Electrical Conductivity (µS/cm) | pH | Method ^c | Remarks | Data Source |
|---------------|-------------------------|-----------|-------|---------------------------------|---------------------------------|---|------------------------|----------------------|---------------------------------------|------|---------------------|----------------------|----------------|
| 1845501 | Willow Spring | 1/12/2016 | 13:06 | 2.7 | 0.01 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 4/5/2016 | 14:58 | 0.86 | <0.01 | G | --- | 19 | --- | --- | F | --- | SNWA |
| | | 6/8/2016 | 12:47 | 1.7 | <0.01 | G | --- | 30 | --- | --- | F | --- | SNWA |
| | | 7/12/2016 | 12:21 | 1.7 | <0.01 | E | --- | 27 | --- | --- | F | --- | SNWA |
| | | 10/4/2016 | 12:34 | 0.86 | <0.01 | E | --- | -- | --- | --- | F | --- | SNWA |
| | | 11/8/2016 | 15:58 | 1.7 | <0.01 | E | 11.6 | 18.4 | 511 | 7.33 | F | --- | SNWA |
| 1845702 | South Millick Spring | 1/12/2016 | 15:53 | 480 | 1.1 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 4/5/2016 | 17:27 | 601 | 1.3 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 6/8/2016 | 9:43 | 467 | 1.0 | E | 13.7 | 30 | 461 | 7.65 | F | --- | SNWA |
| | | 7/12/2016 | 10:17 | 423 | 0.94 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 10/4/2016 | 10:28 | 412 | 0.92 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 11/8/2016 | 12:48 | 458 | 1.0 | E | 14.5 | -- | 461 | 7.70 | F | --- | SNWA |
| 1845901 | Layton Spring | 6/8/2016 | 8:41 | 0 | 0 | E | --- | 25 | --- | --- | NA | Site is dry. | SNWA |
| | | 7/13/2016 | 9:00 | 0 | 0 | E | --- | --- | --- | --- | NA | Site is dry. | SNWA |
| | | 9/12/2016 | 15:00 | 0 | 0 | E | --- | 18 | -- | --- | NA | Site is dry. | SNWA |
| | | 10/4/2016 | 8:44 | 0 | 0 | E | --- | --- | --- | --- | NA | Site is dry. | SNWA |
| | | 11/7/2016 | 16:45 | 0 | 0 | E | --- | --- | --- | --- | NA | Site is dry. | SNWA |
| 1846201 | Swallow Springs | 3/21/2016 | 15:44 | 462 | 1.0 | P | --- | --- | --- | --- | M | Sum of all channels. | SNWA |
| | | 5/31/2016 | 13:00 | 422 | 0.94 | P | 9.3 | 24 | 343 | 7.75 | M | Sum of all channels. | SNWA |
| | | 6/6/2016 | 13:29 | 390 | 0.87 | P | 9.2 | 23 | 323 | 7.89 | M | Sum of all channels. | SNWA |
| | | 7/5/2016 | 13:58 | 408 | 0.91 | P | 9.3 | 33 | 322 | 7.76 | M | Sum of all channels. | SNWA |
| | | 8/24/2016 | 12:27 | 405 | 0.90 | P | 10.3 | --- | 335 | 7.84 | M | Sum of all channels. | SNWA |
| | | 10/3/2016 | 15:57 | 337 | 0.75 | P | 10.3 | 11 | 356 | 7.83 | M | Sum of all channels. | SNWA |
| | | 11/7/2016 | 12:24 | 309 | 0.69 | P | --- | 25.3 | --- | --- | M | Sum of all channels. | SNWA |
| 1847001 | Four Wheel Drive Spring | 10/7/2015 | 8:52 | 0 | 0 | E | --- | --- | --- | --- | NA | No flow. | SNWA |
| | | 4/5/2016 | 10:20 | 0 | 0 | E | --- | --- | --- | --- | NA | No flow. | SNWA |
| | | 7/13/2016 | 10:12 | 0 | 0 | E | --- | --- | --- | --- | NA | No flow. | SNWA |
| | | 9/12/2016 | 17:02 | 0 | 0 | E | --- | 15 | --- | --- | NA | No flow. | SNWA |
| | | 10/4/2016 | 17:28 | 0 | 0 | E | --- | --- | --- | --- | NA | No flow. | SNWA |

Table C-1
Spring Valley Miscellaneous Discharge Data
 (Page 2 of 3)



| Spring Number | Spring Name | Date | Time | Discharge ^a (gpm) | Discharge ^a (cfs) | Measurement Rated as: (E, G, F, P) ^b | Water Temp (° C) | Air Temp (° C) | Electrical Conductivity (µS/cm) | pH | Method ^c | Remarks | Data Source |
|---------------|------------------------------------|------------|-------|---------------------------------|---------------------------------|---|------------------------|----------------------|---------------------------------------|------|---------------------|--------------|----------------|
| 1847101 | Keegan Spring near Piermont, NV | 1/12/2016 | 11:13 | 184 | 0.41 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 2/2/2016 | 9:47 | 168 | 0.38 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 5/3/2016 | 16:02 | 217 | 0.48 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 6/7/2016 | 14:13 | 201 | 0.45 | E | 14.8 | --- | 73.7 | 8.05 | F | --- | SNWA |
| | | 7/6/2016 | 17:25 | 184 | 0.41 | G | --- | 33 | --- | --- | F | --- | SNWA |
| | | 7/12/2016 | 14:50 | 184 | 0.41 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 8/23/2016 | 15:06 | 209 | 0.46 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 10/4/2016 | 14:45 | 201 | 0.45 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 10/4/2016 | 17:57 | 184 | 0.41 | G | --- | 13 | --- | --- | F | --- | SNWA |
| | | 11/9/2016 | 10:18 | 197 | 0.44 | E | --- | --- | --- | --- | F | --- | SNWA |
| 1847301 | Rock Spring | 10/26/2015 | 15:07 | 14 | 0.03 | G | 14.5 | 20 | 656 | 7.95 | F | --- | SNWA |
| | | 3/22/2016 | 11:24 | 18 | 0.04 | G | 11.6 | --- | 673 | 8.25 | F | --- | SNWA |
| | | 5/4/2016 | 13:27 | 18 | 0.04 | G | --- | 19 | --- | --- | F | --- | SNWA |
| | | 6/1/2016 | 8:15 | 20 | 0.05 | G | 14 | 17 | 664 | 8.08 | F | --- | SNWA |
| | | 6/8/2016 | 9:02 | 20 | 0.05 | G | 16 | 25 | 660 | 7.59 | F | --- | SNWA |
| | | 7/5/2016 | 16:54 | 18 | 0.04 | G | 19.9 | 33 | 636 | 7.65 | F | --- | SNWA |
| | | 8/23/2016 | 17:15 | 18 | 0.04 | G | 15.8 | --- | 663 | 7.98 | F | --- | SNWA |
| | | 10/3/2016 | 18:21 | 16 | 0.04 | G | 11.4 | 7 | 671 | 7.7 | F | --- | SNWA |
| | | 10/12/2016 | 12:59 | 16 | 0.04 | G | --- | 18 | --- | --- | F | --- | SNWA |
| | | 11/7/2016 | 16:04 | 12 | 0.03 | E | 12.4 | --- | 658 | 7.72 | F | --- | SNWA |
| 1847501 | The Seep | 10/7/2015 | 15:44 | 0 | 0 | E | --- | 21.9 | --- | --- | N/A | Site is dry. | SNWA |
| | | 1/12/2016 | 14:14 | 0 | 0 | E | --- | -10.1 | --- | --- | N/A | Site is dry. | SNWA |
| | | 4/5/2016 | 14:13 | 0 | 0 | E | --- | 16 | --- | --- | N/A | Site is dry. | SNWA |
| | | 7/12/2016 | 13:45 | 0 | 0 | E | --- | 31 | --- | --- | N/A | Site is dry. | SNWA |
| | | 10/6/2016 | 10:35 | 0 | 0 | E | --- | 11.6 | --- | --- | N/A | Site is dry. | SNWA |
| 1847701 | Unnamed 5 Spring | 9/12/2016 | 17:23 | 0 | 0 | E | --- | 15 | --- | --- | N/A | No flow. | SNWA |
| 1848001 | Turnley Spring | 3/23/2016 | 12:30 | 67 | 0.15 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 6/7/2016 | 8:38 | 79 | 0.18 | G | 12.5 | --- | 563 | 7.34 | F | --- | SNWA |
| | | 11/8/2016 | 11:10 | 46 | 0.10 | E | 12.4 | 18.8 | 558 | 7.36 | F | --- | SNWA |

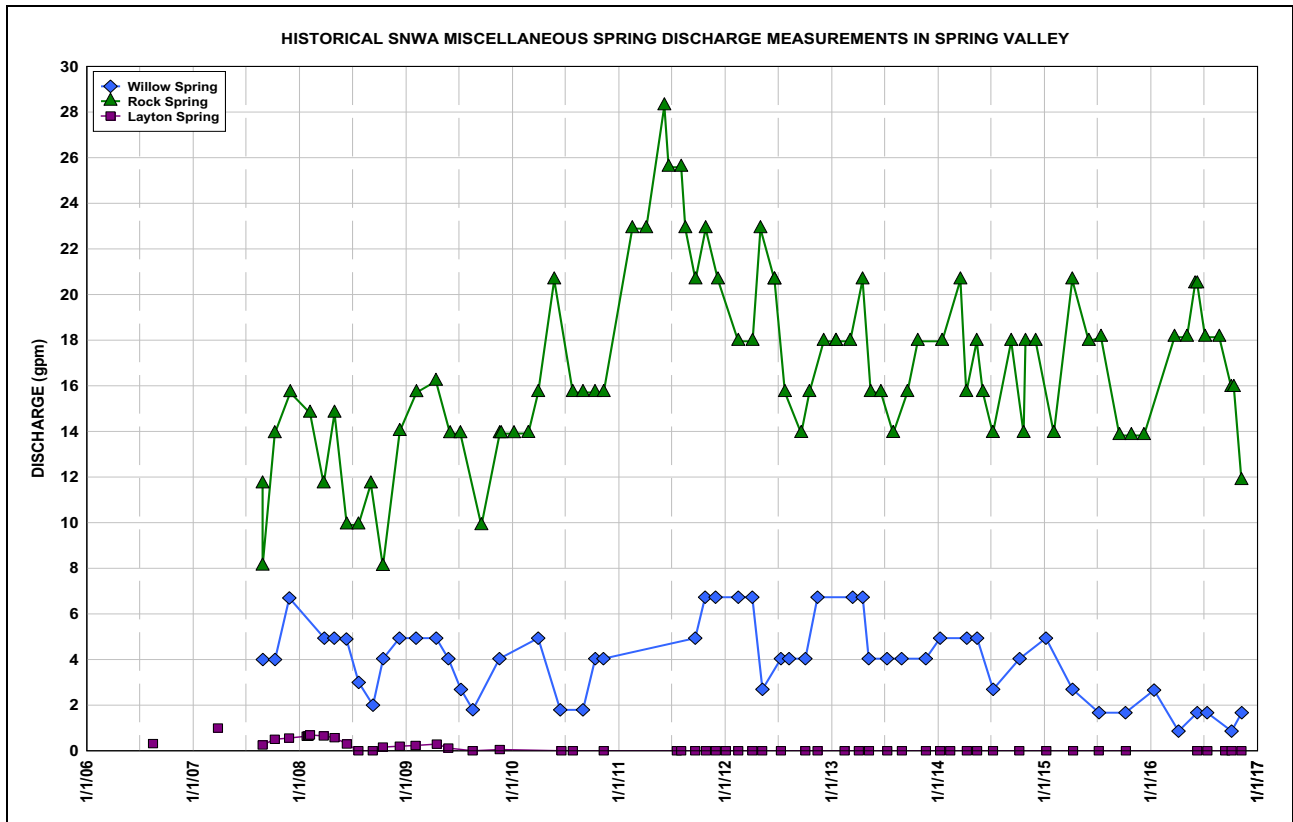
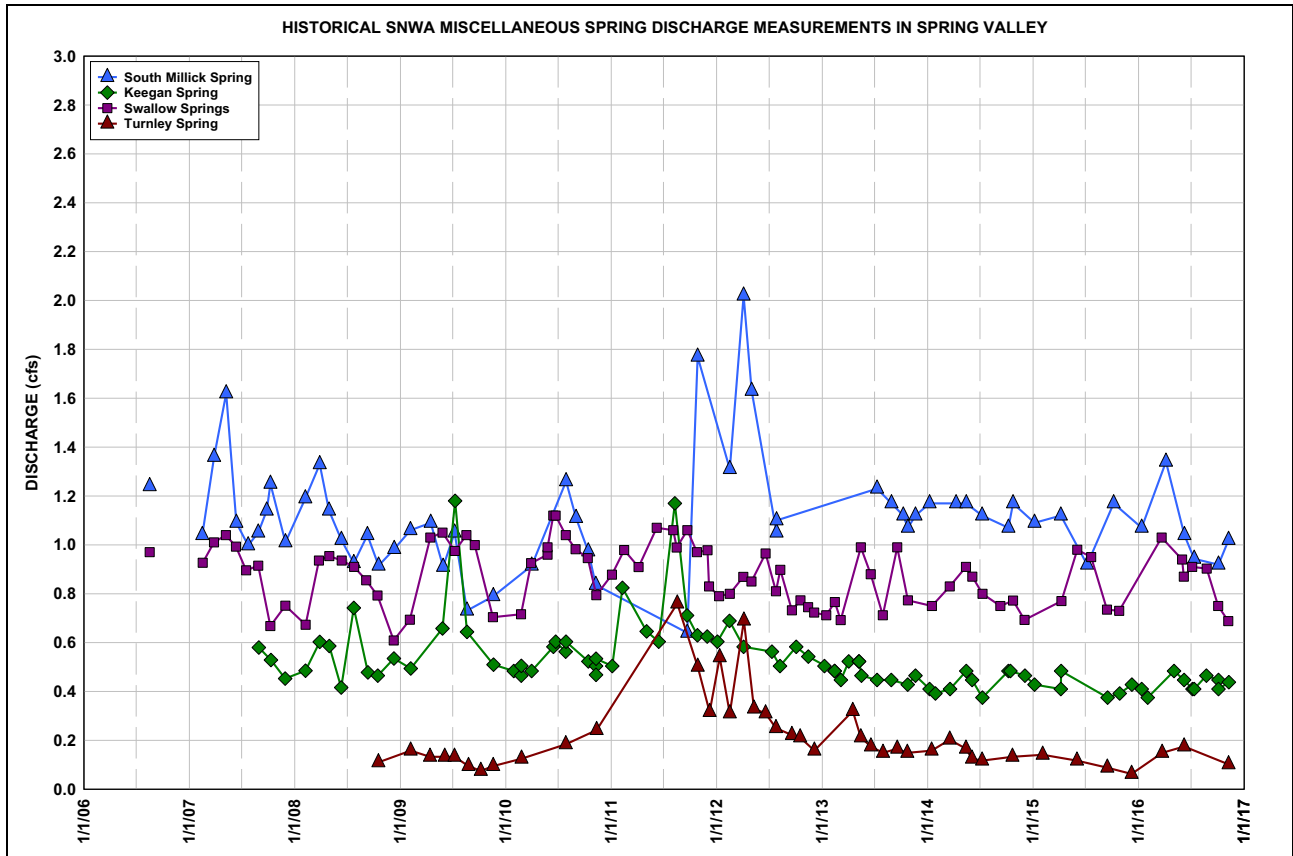
Table C-1
Spring Valley Miscellaneous Discharge Data
 (Page 3 of 3)

| Spring Number | Spring Name | Date | Time | Discharge ^a (gpm) | Discharge ^a (cfs) | Measurement Rated as: (E, G, F, P) ^b | Water Temp (° C) | Air Temp (° C) | Electrical Conductivity (µS/cm) | pH | Method ^c | Remarks | Data Source |
|---------------|---------------------------------------|------------|-------|---------------------------------|---------------------------------|---|------------------------|----------------------|---------------------------------------|-----|---------------------|---------|----------------|
| 1848401 | Cleveland Ranch Spring North Flume | 7/12/2016 | 15:52 | 12 | 0.03 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 9/13/2016 | 12:04 | 10 | 0.02 | F | --- | 15 | --- | --- | F | --- | SNWA |
| | | 10/04/2016 | 15:38 | 8.2 | 0.02 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 11/7/2016 | 11:45 | 12 | 0.03 | G | --- | 15 | --- | --- | F | --- | SNWA |
| | | 12/14/2016 | 8:29 | 14 | 0.03 | G | --- | 3 | --- | --- | F | --- | SNWA |
| 1848501 | Cleveland Ranch Spring South | 7/12/2016 | 16:39 | 63 | 0.14 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 9/13/2016 | 11:35 | 53 | 0.12 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 10/4/2016 | 10:21 | 53 | 0.12 | G | --- | 10 | --- | --- | F | --- | SNWA |
| | | 10/4/2016 | 16:16 | 49 | 0.11 | E | --- | --- | --- | --- | F | --- | SNWA |
| | | 10/6/2016 | 13:42 | 53 | 0.12 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 10/10/2016 | 17:20 | 53 | 0.12 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 10/11/2016 | 10:18 | 53 | 0.12 | G | --- | --- | --- | --- | F | --- | SNWA |
| | | 10/12/2016 | 10:28 | 53 | 0.12 | E | --- | 17 | --- | --- | F | --- | SNWA |
| | | 11/7/2016 | 12:43 | 53 | 0.12 | G | --- | 15 | --- | --- | F | --- | SNWA |
| | | 12/14/2016 | 12:50 | 53 | 0.12 | G | --- | 11 | --- | --- | F | --- | SNWA |
| 12/19/2016 | 15:32 | 53 | 0.12 | E | --- | 0 | --- | --- | F | --- | SNWA | | |

^aDischarge is reported in cfs for values >0.01 and in gpm for values <0.01 cfs.

^bMeasurement Rating: E = Excellent; G = Good; F = Fair; P = Poor

^cMeasurement Method: F = Flume; M = Multiple; V = Volumetric; NA = Not Applicable



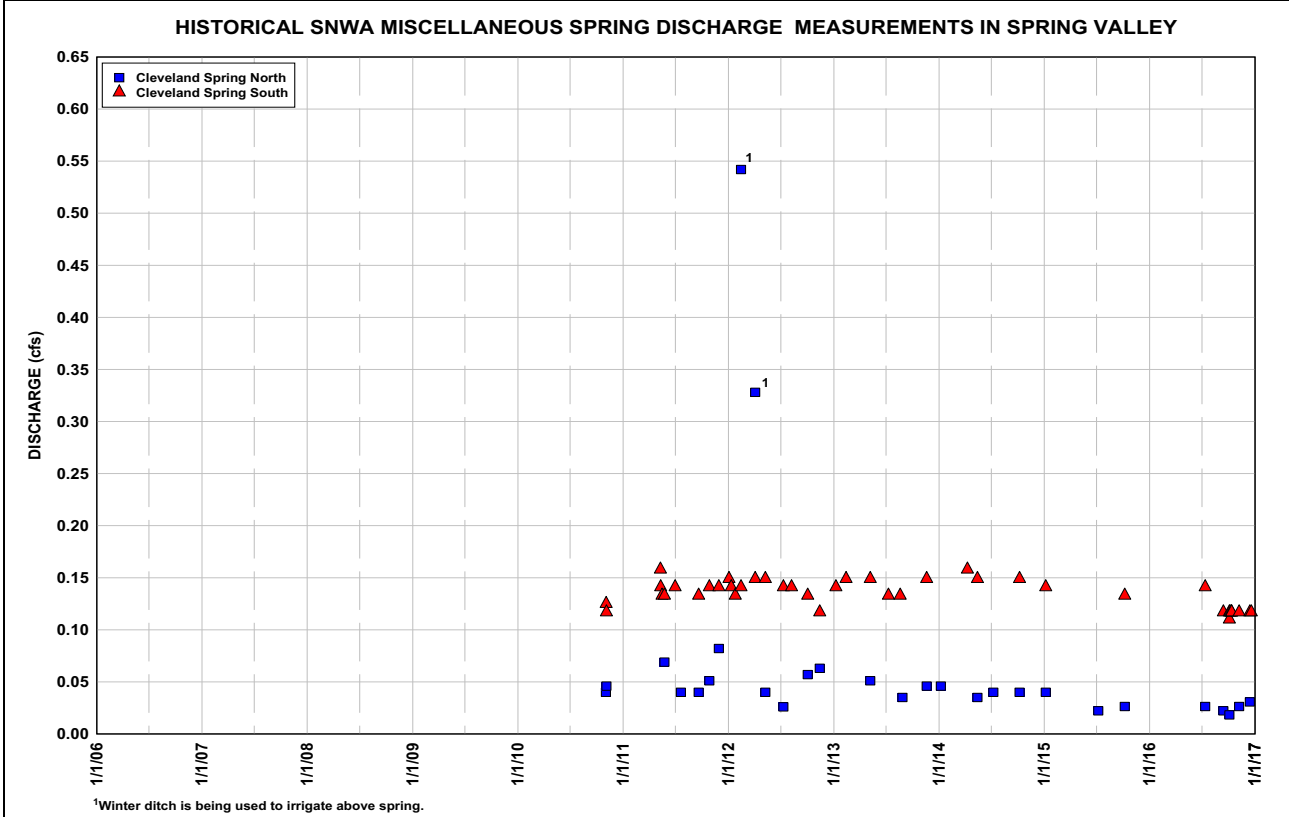




Table C-2
SV3M Plan Periodic Piezometer Water-Level Data
 (Page 1 of 2)

| Site Number | Station Local Number ^a | Associated Spring | Well Depth (ft bgs) | Surface Elevation (ft amsl) | Water Level | | | |
|-------------|-----------------------------------|----------------------------|---------------------|-----------------------------|------------------------|-------------------------|--------------------------|---------------------------------|
| | | | | | Date | Depth to Water (ft bgs) | Well Status ^b | Measurement Method ^c |
| SPR7007Z | 184 N11 E67 12DACA1 | Minerva Spring | 31 | 5,828.66 | 1/12/2016 | 15.38 | S | T |
| | | | | | 4/5/2016 | 16.54 | S | T |
| | | | | | 7/12/2016 | 9.66 | S | T |
| | | | | | 10/5/2016 | 11.11 | S | T |
| SPR7011Z | 184 N11 E67 23ADD1 | Blind Spring | 31 | 5,769.71 | 1/12/2016 | 6.82 | S | T |
| | | | | | 4/5/2016 ^d | --- | --- | --- |
| | | | | | 7/12/2016 | 7.32 | S | T |
| | | | | | 10/5/2016 | 8.15 | S | T |
| SPR7012Z | 184 N15 E67 30BDBD1 | Four Wheel Drive Spring | 25 | 5,756.22 | 1/12/2016 ^d | --- | --- | --- |
| | | | | | 4/5/2016 | 1.42 | S | T |
| | | | | | 7/13/2016 | 1.91 | S | T |
| | | | | | 10/4/2016 | 2.62 | S | T |
| SPR7014Z | 184 N12 E67 26ACAD1 | The Seep | 31 | 5,778.54 | 1/12/2016 | 14.64 | S | T |
| | | | | | 4/5/2016 | 14.70 | S | T |
| | | | | | 7/12/2016 | 15.09 | S | T |
| | | | | | 10/6/2016 | 15.66 | S | T |
| SPR7015Z | 184 N17 E67 30CADA1 | West Spring Valley Complex | 38 | 5,602.90 | 1/12/2016 | 5.64 | S | T |
| | | | | | 4/5/2016 | 5.47 | S | T |
| | | | | | 7/12/2016 | 6.37 | S | T |
| | | | | | 10/4/2016 | 6.11 | S | T |
| SPR7016Z | 184 N15 E67 09BBBA1 | Unnamed Spring 5 | 32 | 5,645.67 | 1/12/2016 ^d | --- | --- | --- |
| | | | | | 4/5/2016 ^d | --- | --- | --- |
| | | | | | 7/13/2016 | 3.05 | S | T |
| | | | | | 10/4/2016 | 3.38 | S | T |
| SPR7018Z | 184 N17 E67 25CDCA1 | South Millick Spring | 25 | 5,587.16 | 1/12/2016 | 5.94 | S | T |
| | | | | | 4/5/2016 | 5.97 | S | T |
| | | | | | 7/12/2016 | 5.92 | S | T |
| | | | | | 10/4/2016 | 6.00 | S | T |
| SPR7019Z | 184 N14 E67 04DBAB1 | Layton Spring | 35 | 5,686.63 | 1/13/2016 ^d | --- | --- | --- |
| | | | | | 2/17/2016 | 9.54 | S | T |
| | | | | | 4/5/2016 | 9.34 | S | T |
| | | | | | 7/13/2016 | 9.63 | S | T |
| | | | | | 10/4/2016 | 10.00 | S | T |
| | | | | | 11/7/2016 | 10.05 | S | T |
| SPR7020Z | 184 N22 E66 17CAAC1 | Stonehouse Spring | 9 | 6,264.62 | 1/12/2016 | 1.38 | S | T |
| | | | | | 4/5/2016 | 1.33 | S | T |
| | | | | | 7/12/2016 | 2.52 | S | T |
| | | | | | 10/4/2016 | 2.82 | S | T |

Table C-2
SV3M Plan Periodic Piezometer Water-Level Data
 (Page 2 of 2)

| Site Number | Station Local Number ^a | Associated Spring | Well Depth (ft bgs) | Surface Elevation (ft amsl) | Water Level | | | |
|-------------|-----------------------------------|------------------------------|---------------------|-----------------------------|------------------------|-------------------------|--------------------------|---------------------------------|
| | | | | | Date | Depth to Water (ft bgs) | Well Status ^b | Measurement Method ^c |
| SPR7021Z | 184 N18 E66 01CCAA1 | Keegan Spring | 21 | 5,613.12 | 1/12/2016 | -0.80 | S | T |
| | | | | | 4/5/2016 | -1.03 | S | T |
| | | | | | 7/12/2016 | -0.85 | S | T |
| | | | | | 10/4/2016 | -1.55 | S | T |
| SPR7022Z | 184 N21 E66 15BCDD1 | Willow Spring | 35 | 5,987.54 | 1/12/2016 | 13.47 | S | T |
| | | | | | 4/5/2016 | 13.52 | S | T |
| | | | | | 6/8/2016 | 13.69 | S | T |
| | | | | | 7/12/2016 | 13.99 | S | T |
| | | | | | 10/4/2016 | 13.89 | S | T |
| SPR7031Z | 184 N16 E67 20CCDC1 | Cleveland Ranch North Spring | 10.3 | 5,637.32 | 1/12/2016 ^d | --- | --- | --- |
| | | | | | 4/5/2016 | 1.06 | S | S |
| | | | | | 7/12/2016 | 3.48 | S | T |
| | | | | | 10/4/2016 | 2.74 | S | T |
| | | | | | 11/7/2016 | 1.55 | S | T |

^aStation Local Numbers provided by the Nevada Department of Water Resources.

^bS = Static Conditions.

^cT = Electric tape measurement, S = Steel tape measurement, O = Other.

^dNo access to site due to poor road conditions.



Table C-3
Station Number 1847301 - Rock Spring near Osceola, NV, Water Year 2016
Mean Daily Discharge Values

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---------|------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| 1 | 0.03 | 0.03 | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 |
| 2 | 0.03 | 0.03 | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 |
| 3 | 0.03 | 0.03 | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 |
| 4 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 |
| 5 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 6 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 7 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 8 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 9 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 10 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.04 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 11 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.04 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 12 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.04 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 13 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.04 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 14 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.04 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 15 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.04 e | 0.04 e | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 |
| 16 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 17 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 18 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 19 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 20 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 21 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 22 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 23 | 0.03 | 0.03 e | 0.03 e | 0.04 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 24 | 0.03 | 0.03 e | 0.03 e | 0.03 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 25 | 0.03 | 0.03 e | 0.03 e | 0.03 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 26 | 0.03 | 0.03 e | 0.03 e | 0.03 e | 0.03 e | 0.04 e | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 |
| 27 | 0.03 | 0.03 e | 0.03 e | 0.03 e | 0.03 e | 0.04 e | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| 28 | 0.03 | 0.03 e | 0.03 e | 0.03 e | 0.04 e | 0.04 e | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 |
| 29 | 0.03 | 0.03 e | 0.03 e | 0.03 e | 0.04 e | 0.04 e | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 |
| 30 | 0.03 | 0.03 e | 0.04 e | 0.03 e | -- | 0.04 e | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 |
| 31 | 0.03 | -- | 0.03 e | 0.03 e | -- | 0.04 | -- | 0.05 | -- | 0.04 | 0.04 | -- |
| Min | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Max | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 |
| Mean | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 |
| Total | 0.93 | 0.90 | 0.94 | 1.2 | 0.95 | 1.2 | 1.2 | 1.3 | 1.4 | 1.3 | 1.2 | 1.2 |
| Acre-ft | 1.8 | 1.8 | 1.9 | 2.4 | 1.9 | 2.4 | 2.4 | 2.6 | 2.8 | 2.6 | 2.4 | 2.4 |

Note: Values are in cfs unless noted otherwise.
 e - estimated day

| WY 2016 Annual Statistics | |
|---------------------------|------|
| Min: | 0.03 |
| Max | 0.05 |
| Annual Total | 27.3 |
| Annual Mean (cfs) | 0.04 |

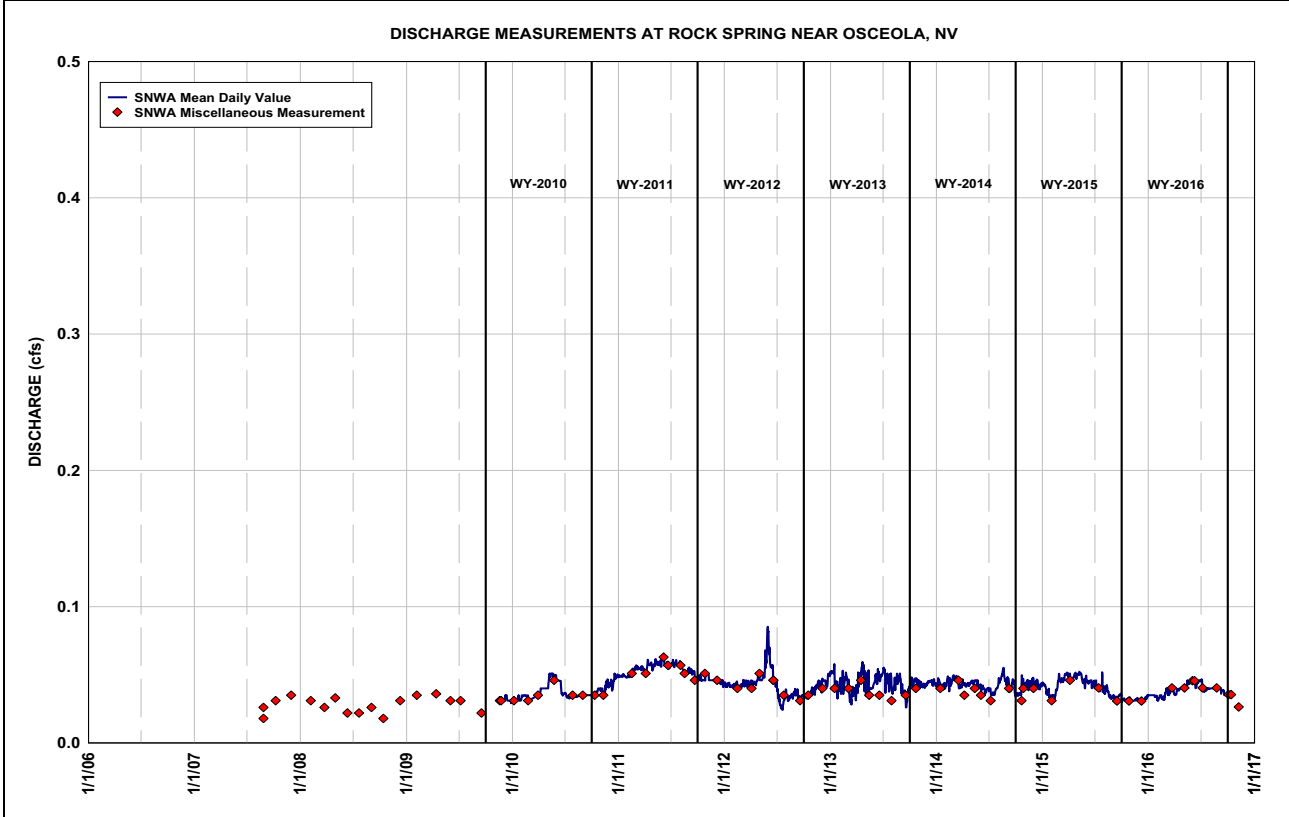


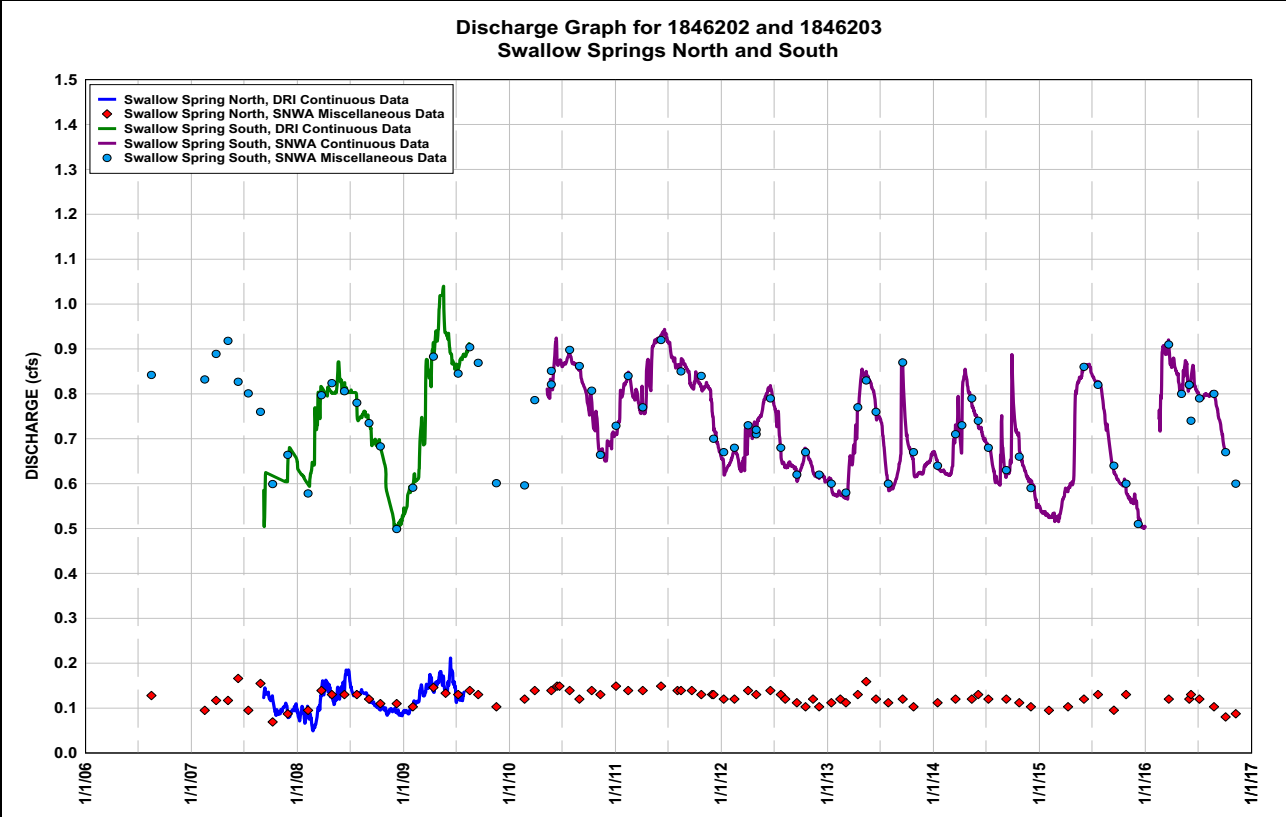


Table C-4
Station Number 1846203 - Swallow Springs South near Minerva, NV, Water Year 2016
Mean Daily Discharge Values

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---------|------|------|------|--------|------|------|------|------|------|------|------|------|
| 1 | 0.61 | 0.58 | 0.56 | 0.50 e | -- | 0.90 | 0.86 | 0.80 | 0.81 | 0.80 | 0.80 | 0.78 |
| 2 | 0.60 | 0.57 | 0.56 | -- | -- | 0.91 | 0.86 | 0.80 | 0.82 | 0.80 | 0.80 | 0.77 |
| 3 | 0.60 | 0.57 | 0.54 | -- | -- | 0.90 | 0.86 | 0.80 | 0.82 | 0.80 | 0.80 | 0.77 |
| 4 | 0.60 | 0.57 | 0.54 | -- | -- | 0.90 | 0.86 | 0.80 | 0.82 | 0.80 | 0.80 | 0.77 |
| 5 | 0.60 | 0.57 | 0.54 | -- | -- | 0.91 | 0.88 | 0.80 | 0.83 | 0.79 | 0.80 | 0.77 |
| 6 | 0.60 | 0.57 | 0.54 | -- | -- | 0.91 | 0.88 | 0.81 | 0.83 | 0.79 | 0.80 | 0.76 |
| 7 | 0.60 | 0.56 | 0.54 | -- | -- | 0.91 | 0.88 | 0.82 | 0.84 | 0.79 | 0.80 | 0.76 |
| 8 | 0.60 | 0.57 | 0.52 | -- | -- | 0.90 | 0.88 | 0.81 | 0.84 | 0.79 | 0.79 | 0.76 |
| 9 | 0.60 | 0.56 | 0.52 | -- | -- | 0.90 | 0.88 | 0.81 | 0.85 | 0.79 | 0.79 | 0.75 |
| 10 | 0.60 | 0.57 | 0.52 | -- | -- | 0.89 | 0.87 | 0.84 | 0.85 | 0.79 | 0.80 | 0.74 |
| 11 | 0.60 | 0.56 | 0.52 | -- | -- | 0.89 | 0.86 | 0.85 | 0.85 | 0.79 | 0.80 | 0.74 |
| 12 | 0.60 | 0.56 | 0.52 | -- | -- | 0.89 | 0.86 | 0.84 | 0.86 | 0.79 | 0.80 | 0.74 |
| 13 | 0.60 | 0.56 | 0.52 | -- | -- | 0.89 | 0.86 | 0.84 | 0.86 | 0.79 | 0.80 | 0.74 |
| 14 | 0.60 | 0.56 | 0.52 | -- | -- | 0.90 | 0.86 | 0.84 | 0.86 | 0.79 | 0.80 | 0.74 |
| 15 | 0.60 | 0.56 | 0.51 | -- | -- | 0.90 | 0.85 | 0.86 | 0.85 | 0.80 | 0.80 | 0.74 |
| 16 | 0.60 | 0.56 | 0.51 | -- | -- | 0.90 | 0.85 | 0.86 | 0.85 | 0.79 | 0.80 | 0.73 |
| 17 | 0.60 | 0.56 | 0.51 | -- | 0.74 | 0.89 | 0.85 | 0.87 | 0.83 | 0.79 | 0.80 | 0.73 |
| 18 | 0.60 | 0.56 | 0.51 | -- | 0.76 | 0.89 | 0.84 | 0.88 | 0.82 | 0.79 | 0.80 | 0.72 |
| 19 | 0.60 | 0.56 | 0.50 | -- | 0.75 | 0.91 | 0.84 | 0.87 | 0.82 | 0.79 | 0.80 | 0.72 |
| 20 | 0.60 | 0.56 | 0.50 | -- | 0.72 | 0.92 | 0.84 | 0.87 | 0.82 | 0.80 | 0.80 | 0.72 |
| 21 | 0.61 | 0.56 | 0.50 | -- | 0.72 | 0.92 | 0.84 | 0.87 | 0.81 | 0.80 | 0.80 | 0.71 |
| 22 | 0.61 | 0.56 | 0.50 | -- | 0.76 | 0.91 | 0.84 | 0.86 | 0.81 | 0.80 | 0.80 | 0.71 |
| 23 | 0.60 | 0.56 | 0.50 | -- | 0.80 | 0.90 | 0.84 | 0.87 | 0.81 | 0.80 | 0.80 | 0.71 |
| 24 | 0.60 | 0.57 | 0.50 | -- | 0.79 | 0.89 | 0.83 | 0.85 | 0.81 | 0.80 | 0.80 | 0.70 |
| 25 | 0.60 | 0.58 | 0.50 | -- | 0.79 | 0.88 | 0.82 | 0.84 | 0.81 | 0.80 | 0.80 | 0.70 |
| 26 | 0.60 | 0.58 | 0.50 | -- | 0.82 | 0.87 | 0.82 | 0.83 | 0.81 | 0.80 | 0.79 | 0.69 |
| 27 | 0.58 | 0.57 | 0.50 | -- | 0.87 | 0.86 | 0.82 | 0.81 | 0.80 | 0.80 | 0.79 | 0.68 |
| 28 | 0.58 | 0.56 | 0.50 | -- | 0.89 | 0.87 | 0.81 | 0.80 | 0.80 | 0.80 | 0.79 | 0.68 |
| 29 | 0.58 | 0.56 | 0.50 | -- | 0.90 | 0.87 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | 0.68 |
| 30 | 0.58 | 0.56 | 0.50 | -- | -- | 0.86 | 0.81 | 0.81 | 0.80 | 0.80 | 0.79 | 0.68 |
| 31 | 0.58 | -- | 0.50 | -- | -- | 0.86 | -- | 0.82 | -- | 0.80 | 0.78 | -- |
| Min | 0.58 | 0.56 | 0.50 | -- | -- | 0.86 | 0.81 | 0.80 | 0.80 | 0.79 | 0.78 | 0.68 |
| Max | 0.61 | 0.58 | 0.56 | -- | -- | 0.92 | 0.88 | 0.88 | 0.86 | 0.80 | 0.80 | 0.78 |
| Mean | 0.60 | 0.56 | 0.52 | -- | -- | 0.89 | 0.85 | 0.83 | 0.83 | 0.80 | 0.80 | 0.73 |
| Total | 18.5 | 17.0 | 16.0 | -- | -- | 27.7 | 25.5 | 25.8 | 24.8 | 24.7 | 24.7 | 21.9 |
| Acre-ft | 36.7 | 33.6 | 31.7 | -- | -- | 54.8 | 50.4 | 51.2 | 49.1 | 48.8 | 48.9 | 43.3 |

Note: Values are in cfs unless noted otherwise.
 e - estimated day

| WY 2016 Annual Statistics | |
|---------------------------|----|
| Min: | -- |
| Max: | -- |
| Annual Total (Acre-ft) | -- |
| Annual Mean (cfs) | -- |



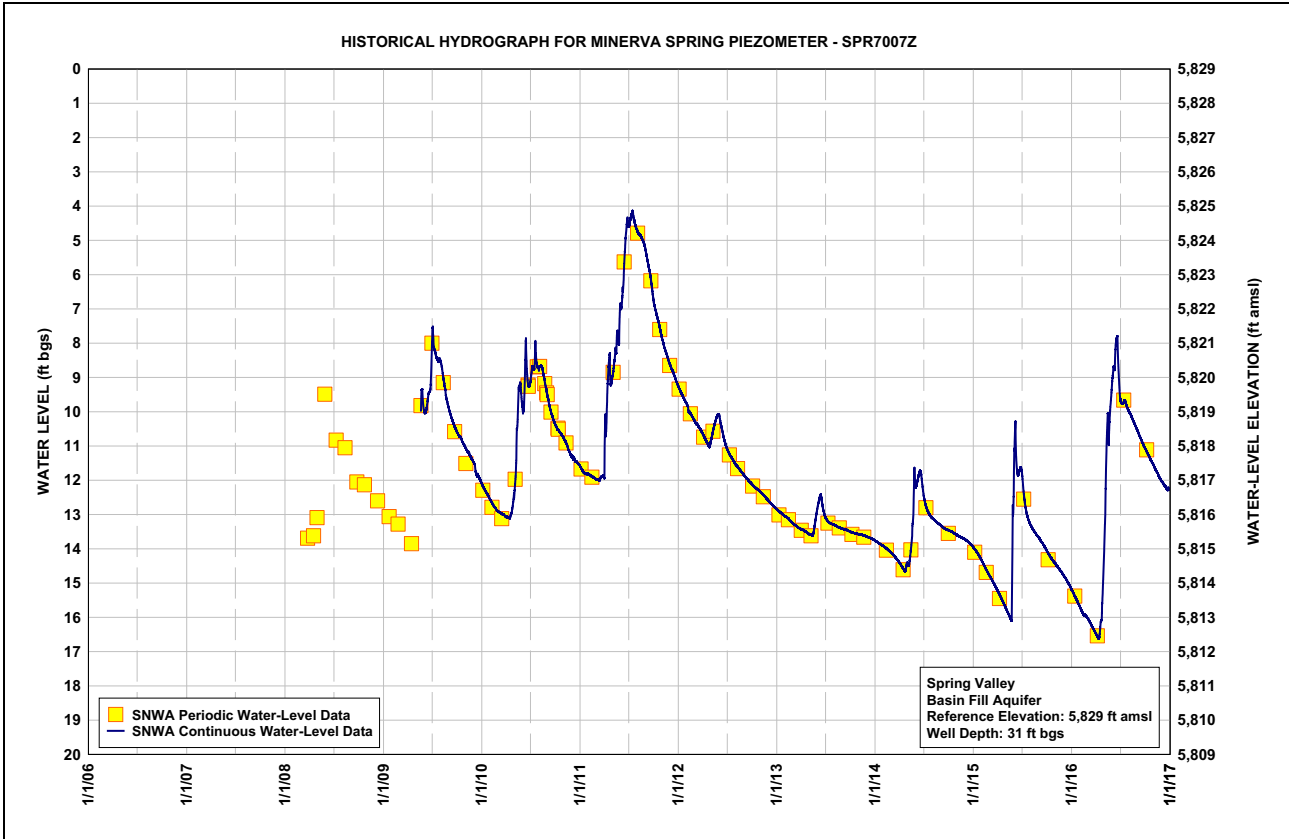
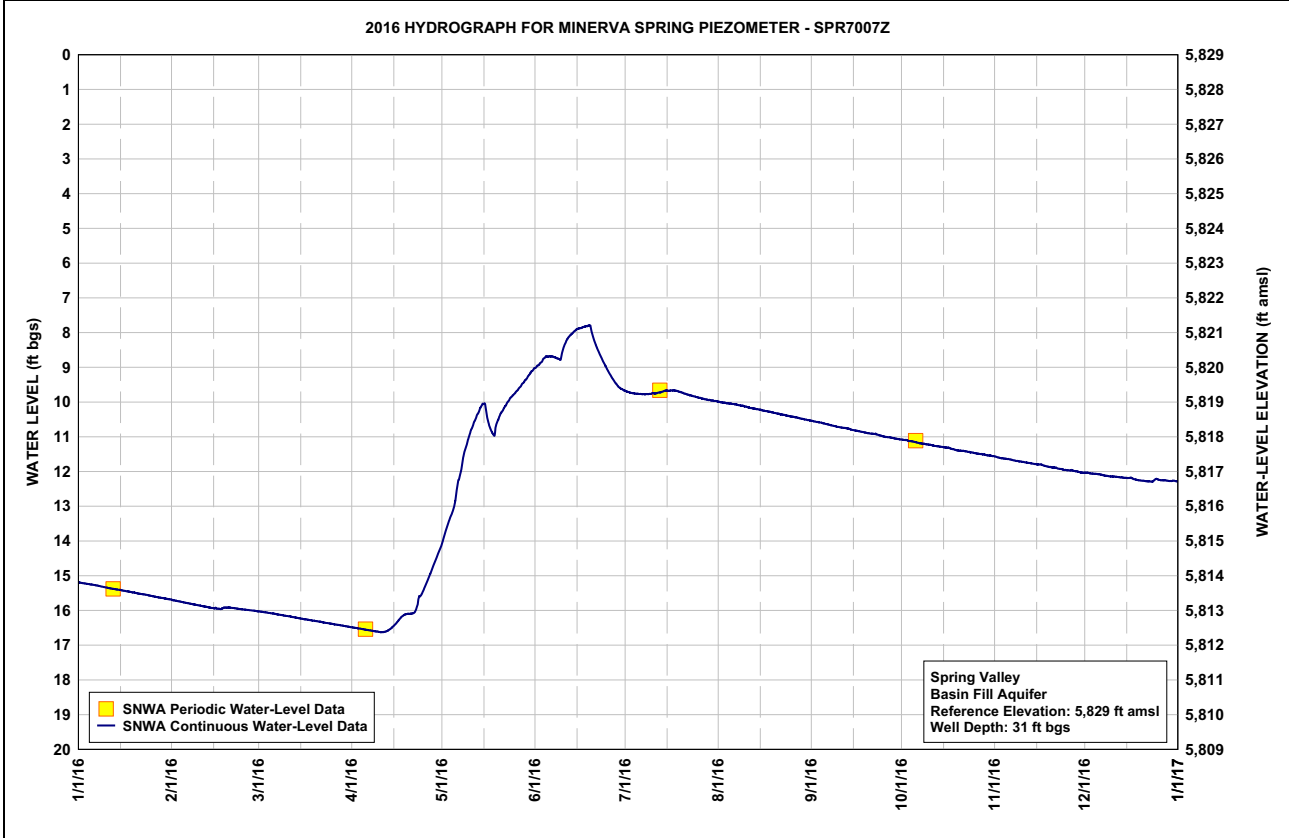


**Table C-5
Minerva Spring Piezometer SPR7007Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|
| 1 | 15.20 | 15.70 | 16.03 | 16.49 | 13.94 | 8.99 | 9.70 | 10.00 | 10.55 | 11.08 | 11.58 | 12.04 |
| 2 | 15.21 | 15.72 | 16.04 | 16.51 | 13.65 | 8.90 | 9.73 | 10.01 | 10.57 | 11.09 | 11.60 | 12.04 |
| 3 | 15.23 | 15.74 | 16.06 | 16.52 | 13.39 | 8.81 | 9.75 | 10.03 | 10.58 | 11.12 | 11.62 | 12.06 |
| 4 | 15.24 | 15.76 | 16.07 | 16.54 | 13.17 | 8.70 | 9.76 | 10.04 | 10.60 | 11.13 | 11.63 | 12.07 |
| 5 | 15.26 | 15.77 | 16.09 | 16.55 | 12.82 | 8.69 | 9.77 | 10.05 | 10.62 | 11.15 | 11.64 | 12.08 |
| 6 | 15.27 | 15.79 | 16.10 | 16.57 | 12.25 | 8.69 | 9.77 | 10.06 | 10.64 | 11.17 | 11.66 | 12.08 |
| 7 | 15.29 | 15.81 | 16.12 | 16.58 | 11.93 | 8.71 | 9.77 | 10.08 | 10.67 | 11.19 | 11.68 | 12.11 |
| 8 | 15.31 | 15.83 | 16.13 | 16.60 | 11.44 | 8.75 | 9.77 | 10.10 | 10.69 | 11.20 | 11.70 | 12.13 |
| 9 | 15.33 | 15.84 | 16.15 | 16.61 | 11.15 | 8.77 | 9.77 | 10.12 | 10.71 | 11.22 | 11.71 | 12.14 |
| 10 | 15.34 | 15.86 | 16.16 | 16.62 | 10.86 | 8.44 | 9.75 | 10.14 | 10.72 | 11.23 | 11.72 | 12.14 |
| 11 | 15.36 | 15.88 | 16.17 | 16.62 | 10.63 | 8.23 | 9.74 | 10.17 | 10.74 | 11.25 | 11.74 | 12.15 |
| 12 | 15.38 | 15.90 | 16.19 | 16.60 | 10.42 | 8.10 | 9.73 | 10.18 | 10.75 | 11.26 | 11.75 | 12.16 |
| 13 | 15.39 | 15.91 | 16.21 | 16.55 | 10.24 | 8.02 | 9.70 | 10.20 | 10.77 | 11.28 | 11.77 | 12.17 |
| 14 | 15.41 | 15.93 | 16.22 | 16.48 | 10.06 | 7.94 | 9.67 | 10.21 | 10.80 | 11.29 | 11.78 | 12.18 |
| 15 | 15.42 | 15.94 | 16.24 | 16.40 | 10.11 | 7.88 | 9.67 | 10.24 | 10.82 | 11.30 | 11.79 | 12.19 |
| 16 | 15.44 | 15.95 | 16.26 | 16.30 | 10.59 | 7.86 | 9.67 | 10.25 | 10.83 | 11.32 | 11.80 | 12.19 |
| 17 | 15.46 | 15.96 | 16.27 | 16.19 | 10.84 | 7.83 | 9.67 | 10.27 | 10.85 | 11.35 | 11.83 | 12.22 |
| 18 | 15.47 | 15.92 | 16.28 | 16.12 | 10.93 | 7.81 | 9.69 | 10.29 | 10.87 | 11.36 | 11.85 | 12.24 |
| 19 | 15.49 | 15.92 | 16.30 | 16.10 | 10.56 | 7.82 | 9.72 | 10.31 | 10.89 | 11.39 | 11.87 | 12.26 |
| 20 | 15.50 | 15.92 | 16.31 | 16.09 | 10.34 | 8.17 | 9.75 | 10.33 | 10.90 | 11.40 | 11.88 | 12.27 |
| 21 | 15.52 | 15.93 | 16.33 | 16.08 | 10.20 | 8.42 | 9.78 | 10.35 | 10.91 | 11.41 | 11.89 | 12.28 |
| 22 | 15.53 | 15.94 | 16.34 | 15.94 | 10.06 | 8.61 | 9.81 | 10.36 | 10.92 | 11.42 | 11.92 | 12.28 |
| 23 | 15.55 | 15.96 | 16.36 | 15.61 | 9.93 | 8.80 | 9.83 | 10.39 | 10.95 | 11.44 | 11.93 | 12.29 |
| 24 | 15.57 | 15.97 | 16.37 | 15.49 | 9.82 | 8.97 | 9.85 | 10.40 | 10.98 | 11.45 | 11.96 | 12.22 |
| 25 | 15.59 | 15.98 | 16.39 | 15.29 | 9.72 | 9.13 | 9.88 | 10.42 | 11.00 | 11.47 | 11.97 | 12.23 |
| 26 | 15.60 | 15.99 | 16.40 | 15.08 | 9.62 | 9.28 | 9.90 | 10.43 | 11.01 | 11.49 | 11.97 | 12.25 |
| 27 | 15.62 | 16.00 | 16.42 | 14.86 | 9.51 | 9.41 | 9.92 | 10.45 | 11.02 | 11.50 | 11.98 | 12.25 |
| 28 | 15.64 | 16.01 | 16.43 | 14.64 | 9.41 | 9.53 | 9.94 | 10.48 | 11.04 | 11.51 | 12.00 | 12.26 |
| 29 | 15.65 | 16.02 | 16.45 | 14.42 | 9.29 | 9.61 | 9.95 | 10.49 | 11.06 | 11.53 | 12.02 | 12.27 |
| 30 | 15.67 | --- | 16.46 | 14.20 | 9.16 | 9.66 | 9.97 | 10.51 | 11.07 | 11.54 | 12.03 | 12.27 |
| 31 | 15.68 | --- | 16.48 | --- | 9.06 | --- | 9.98 | 10.53 | --- | 11.56 | --- | 12.28 |
| Max | 15.68 | 16.02 | 16.48 | 16.62 | 13.94 | 9.66 | 9.98 | 10.53 | 11.07 | 11.56 | 12.03 | 12.29 |
| Min | 15.20 | 15.70 | 16.03 | 14.20 | 9.06 | 7.81 | 9.67 | 10.00 | 10.55 | 11.08 | 11.58 | 12.04 |

Year 2016 Statistics: Year Max 16.62; Year Min 7.81

Note: Water level in ft bgs.



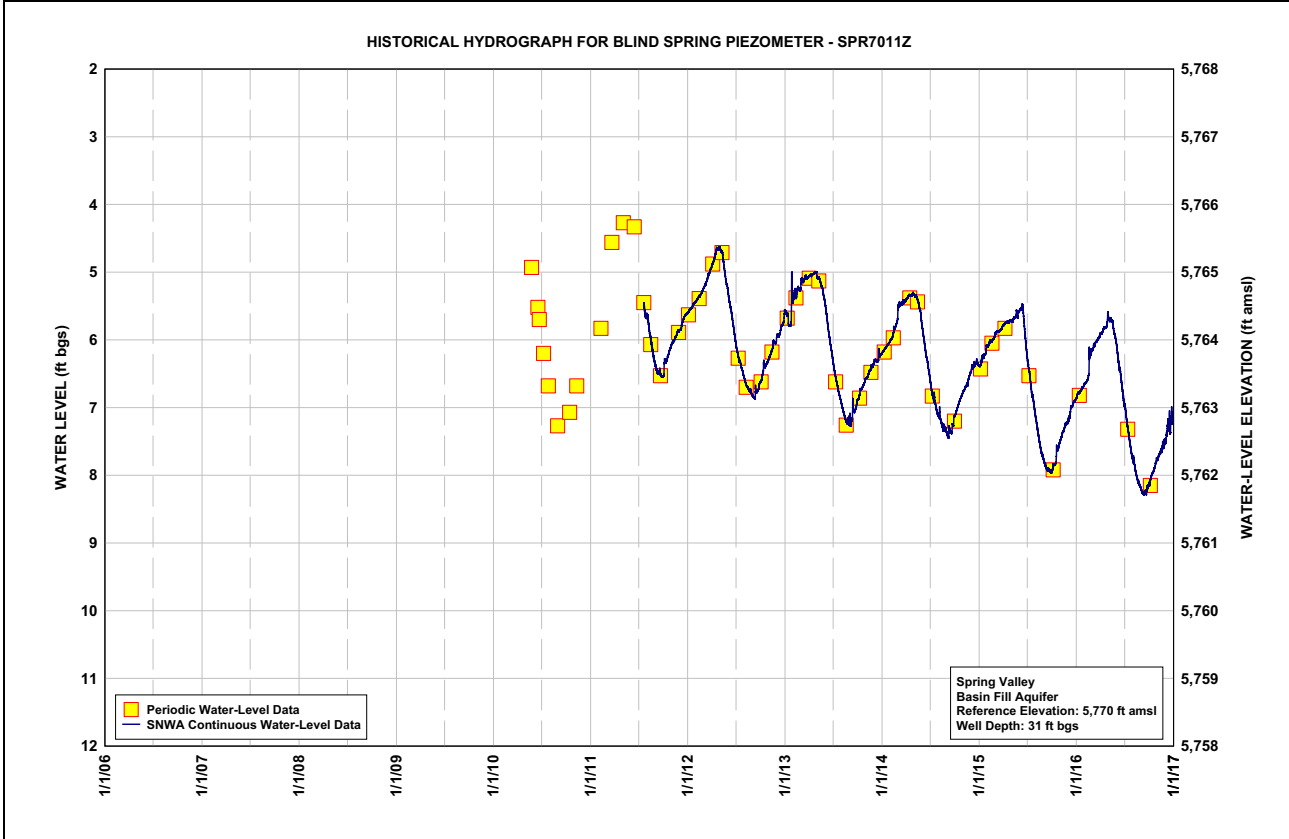
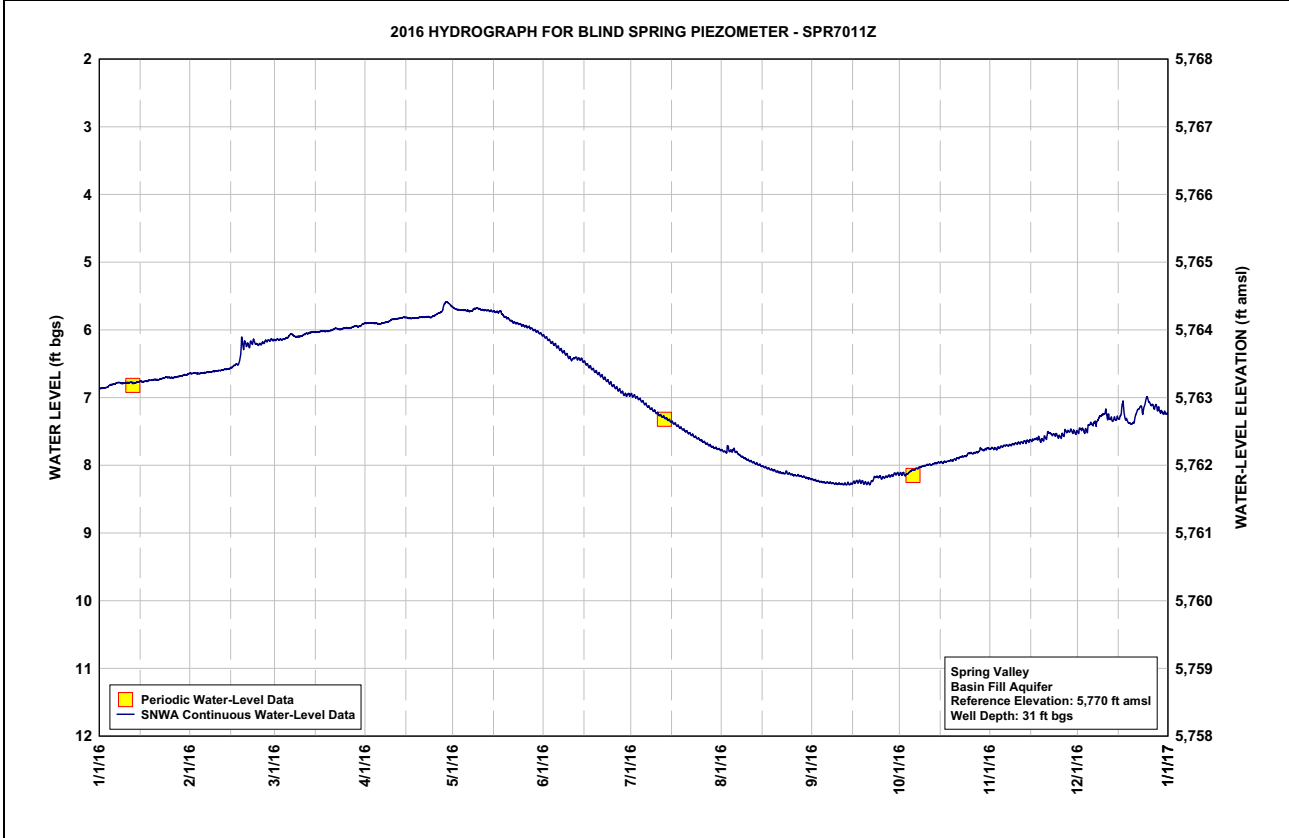


**Table C-6
Blind Spring Piezometer SPR7011Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 6.86 | 6.64 | 6.15 | 5.90 | 5.68 | 6.10 | 6.97 | 7.78 | 8.21 | 8.13 | 7.75 | 7.50 |
| 2 | 6.86 | 6.64 | 6.14 | 5.90 | 5.70 | 6.14 | 6.99 | 7.80 | 8.23 | 8.13 | 7.75 | 7.46 |
| 3 | 6.85 | 6.64 | 6.14 | 5.90 | 5.71 | 6.18 | 7.01 | 7.75 | 8.24 | 8.13 | 7.75 | 7.49 |
| 4 | 6.82 | 6.64 | 6.13 | 5.90 | 5.71 | 6.21 | 7.04 | 7.79 | 8.25 | 8.10 | 7.73 | 7.47 |
| 5 | 6.81 | 6.64 | 6.11 | 5.91 | 5.71 | 6.24 | 7.08 | 7.77 | 8.26 | 8.07 | 7.72 | 7.40 |
| 6 | 6.80 | 6.63 | 6.06 | 5.91 | 5.72 | 6.28 | 7.12 | 7.81 | 8.26 | 8.06 | 7.71 | 7.38 |
| 7 | 6.78 | 6.62 | 6.08 | 5.89 | 5.72 | 6.32 | 7.15 | 7.85 | 8.26 | 8.04 | 7.71 | 7.36 |
| 8 | 6.79 | 6.62 | 6.10 | 5.89 | 5.69 | 6.35 | 7.18 | 7.88 | 8.27 | 8.03 | 7.70 | 7.28 |
| 9 | 6.79 | 6.61 | 6.10 | 5.86 | 5.68 | 6.40 | 7.22 | 7.91 | 8.27 | 8.01 | 7.68 | 7.25 |
| 10 | 6.78 | 6.60 | 6.09 | 5.84 | 5.70 | 6.44 | 7.25 | 7.93 | 8.27 | 8.00 | 7.67 | 7.23 |
| 11 | 6.78 | 6.60 | 6.06 | 5.84 | 5.71 | 6.42 | 7.28 | 7.95 | 8.28 | 7.99 | 7.66 | 7.29 |
| 12 | 6.78 | 6.59 | 6.05 | 5.83 | 5.71 | 6.41 | 7.29 | 7.97 | 8.28 | 7.98 | 7.66 | 7.32 |
| 13 | 6.78 | 6.58 | 6.04 | 5.82 | 5.72 | 6.43 | 7.32 | 7.98 | 8.28 | 7.97 | 7.65 | 7.32 |
| 14 | 6.77 | 6.58 | 6.03 | 5.81 | 5.73 | 6.46 | 7.35 | 8.00 | 8.28 | 7.96 | 7.64 | 7.31 |
| 15 | 6.76 | 6.55 | 6.03 | 5.82 | 5.74 | 6.49 | 7.38 | 8.02 | 8.26 | 7.96 | 7.63 | 7.29 |
| 16 | 6.76 | 6.52 | 6.03 | 5.83 | 5.73 | 6.54 | 7.40 | 8.04 | 8.24 | 7.95 | 7.62 | 7.12 |
| 17 | 6.76 | 6.51 | 6.02 | 5.83 | 5.73 | 6.57 | 7.43 | 8.06 | 8.24 | 7.94 | 7.60 | 7.31 |
| 18 | 6.74 | 6.34 | 6.02 | 5.83 | 5.80 | 6.61 | 7.46 | 8.07 | 8.25 | 7.93 | 7.63 | 7.37 |
| 19 | 6.74 | 6.21 | 6.02 | 5.82 | 5.83 | 6.64 | 7.49 | 8.09 | 8.26 | 7.92 | 7.62 | 7.39 |
| 20 | 6.74 | 6.21 | 6.00 | 5.81 | 5.85 | 6.67 | 7.52 | 8.10 | 8.27 | 7.91 | 7.59 | 7.36 |
| 21 | 6.74 | 6.23 | 5.99 | 5.81 | 5.88 | 6.71 | 7.54 | 8.11 | 8.24 | 7.89 | 7.52 | 7.19 |
| 22 | 6.72 | 6.18 | 5.98 | 5.80 | 5.90 | 6.74 | 7.57 | 8.12 | 8.18 | 7.87 | 7.54 | 7.14 |
| 23 | 6.71 | 6.20 | 5.99 | 5.81 | 5.91 | 6.78 | 7.60 | 8.11 | 8.17 | 7.87 | 7.54 | 7.18 |
| 24 | 6.70 | 6.22 | 5.98 | 5.80 | 5.93 | 6.81 | 7.62 | 8.13 | 8.17 | 7.83 | 7.57 | 7.02 |
| 25 | 6.70 | 6.21 | 5.97 | 5.77 | 5.95 | 6.84 | 7.64 | 8.14 | 8.18 | 7.82 | 7.57 | 7.07 |
| 26 | 6.70 | 6.18 | 5.97 | 5.75 | 5.96 | 6.88 | 7.67 | 8.15 | 8.17 | 7.82 | 7.55 | 7.11 |
| 27 | 6.70 | 6.16 | 5.96 | 5.71 | 5.97 | 6.91 | 7.69 | 8.15 | 8.16 | 7.81 | 7.50 | 7.14 |
| 28 | 6.68 | 6.15 | 5.95 | 5.60 | 6.00 | 6.95 | 7.72 | 8.16 | 8.15 | 7.79 | 7.50 | 7.16 |
| 29 | 6.68 | 6.15 | 5.95 | 5.60 | 6.02 | 6.96 | 7.74 | 8.17 | 8.13 | 7.77 | 7.50 | 7.20 |
| 30 | 6.66 | --- | 5.94 | 5.64 | 6.04 | 6.95 | 7.76 | 8.19 | 8.12 | 7.77 | 7.52 | 7.23 |
| 31 | 6.65 | --- | 5.91 | --- | 6.07 | --- | 7.77 | 8.20 | --- | 7.75 | --- | 7.24 |
| Max | 6.86 | 6.64 | 6.15 | 5.91 | 6.07 | 6.96 | 7.77 | 8.20 | 8.28 | 8.13 | 7.75 | 7.50 |
| Min | 6.65 | 6.15 | 5.91 | 5.60 | 5.68 | 6.10 | 6.97 | 7.75 | 8.12 | 7.75 | 7.50 | 7.02 |

Year 2016 Statistics: Year Max 8.28; Year Min 5.60

Note: Water level in ft bgs.





**Table C-7
Four Wheel Drive Spring Piezometer SPR7012Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 1.97 | 1.76 | 1.50 | 1.38 | 1.37 | 1.49 | 1.76 | 2.10 | 2.39 | 2.55 | 2.56 | 2.37 |
| 2 | 1.96 | 1.75 | 1.50 | 1.38 | 1.37 | 1.50 | 1.77 | 2.11 | 2.39 | 2.55 | 2.55 | 2.37 |
| 3 | 1.95 | 1.75 | 1.49 | 1.37 | 1.37 | 1.51 | 1.78 | 2.12 | 2.40 | 2.56 | 2.55 | 2.36 |
| 4 | 1.94 | 1.75 | 1.49 | 1.37 | 1.37 | 1.52 | 1.79 | 2.12 | 2.41 | 2.56 | 2.54 | 2.35 |
| 5 | 1.93 | 1.74 | 1.48 | 1.37 | 1.37 | 1.52 | 1.79 | 2.13 | 2.42 | 2.56 | 2.54 | 2.34 |
| 6 | 1.92 | 1.74 | 1.47 | 1.37 | 1.37 | 1.53 | 1.81 | 2.14 | 2.43 | 2.57 | 2.53 | 2.33 |
| 7 | 1.92 | 1.73 | 1.47 | 1.36 | 1.37 | 1.54 | 1.82 | 2.15 | 2.43 | 2.57 | 2.53 | 2.33 |
| 8 | 1.91 | 1.73 | 1.47 | 1.36 | 1.37 | 1.55 | 1.83 | 2.16 | 2.44 | 2.57 | 2.52 | 2.32 |
| 9 | 1.91 | 1.72 | 1.47 | 1.36 | 1.38 | 1.56 | 1.84 | 2.17 | 2.45 | 2.57 | 2.51 | 2.31 |
| 10 | 1.90 | 1.71 | 1.46 | 1.36 | 1.39 | 1.57 | 1.85 | 2.18 | 2.46 | 2.57 | 2.51 | 2.30 |
| 11 | 1.90 | 1.71 | 1.45 | 1.36 | 1.40 | 1.58 | 1.86 | 2.19 | 2.46 | 2.57 | 2.50 | 2.30 |
| 12 | 1.89 | 1.70 | 1.45 | 1.37 | 1.40 | 1.58 | 1.87 | 2.20 | 2.47 | 2.58 | 2.50 | 2.29 |
| 13 | 1.88 | 1.70 | 1.44 | 1.36 | 1.40 | 1.59 | 1.89 | 2.21 | 2.48 | 2.58 | 2.49 | 2.28 |
| 14 | 1.87 | 1.69 | 1.44 | 1.36 | 1.39 | 1.59 | 1.90 | 2.22 | 2.48 | 2.58 | 2.49 | 2.27 |
| 15 | 1.87 | 1.68 | 1.44 | 1.36 | 1.39 | 1.60 | 1.91 | 2.23 | 2.49 | 2.58 | 2.48 | 2.26 |
| 16 | 1.86 | 1.68 | 1.44 | 1.37 | 1.40 | 1.61 | 1.92 | 2.24 | 2.49 | 2.58 | 2.47 | 2.25 |
| 17 | 1.85 | 1.66 | 1.43 | 1.37 | 1.41 | 1.62 | 1.93 | 2.25 | 2.49 | 2.58 | 2.47 | 2.25 |
| 18 | 1.84 | 1.63 | 1.43 | 1.37 | 1.41 | 1.63 | 1.94 | 2.26 | 2.50 | 2.59 | 2.46 | 2.24 |
| 19 | 1.84 | 1.60 | 1.42 | 1.37 | 1.41 | 1.64 | 1.95 | 2.27 | 2.51 | 2.59 | 2.45 | 2.24 |
| 20 | 1.83 | 1.57 | 1.42 | 1.37 | 1.41 | 1.65 | 1.97 | 2.28 | 2.51 | 2.59 | 2.45 | 2.23 |
| 21 | 1.83 | 1.55 | 1.41 | 1.37 | 1.42 | 1.66 | 1.98 | 2.29 | 2.51 | 2.59 | 2.44 | 2.22 |
| 22 | 1.82 | 1.53 | 1.41 | 1.36 | 1.43 | 1.67 | 1.99 | 2.30 | 2.52 | 2.59 | 2.43 | 2.21 |
| 23 | 1.81 | 1.53 | 1.41 | 1.37 | 1.43 | 1.68 | 2.00 | 2.31 | 2.52 | 2.59 | 2.43 | 2.20 |
| 24 | 1.81 | 1.52 | 1.40 | 1.37 | 1.44 | 1.69 | 2.01 | 2.32 | 2.53 | 2.58 | 2.42 | 2.19 |
| 25 | 1.80 | 1.52 | 1.40 | 1.36 | 1.45 | 1.70 | 2.02 | 2.33 | 2.53 | 2.58 | 2.41 | 2.19 |
| 26 | 1.80 | 1.52 | 1.40 | 1.38 | 1.45 | 1.71 | 2.03 | 2.33 | 2.54 | 2.58 | 2.40 | 2.18 |
| 27 | 1.79 | 1.51 | 1.39 | 1.37 | 1.46 | 1.72 | 2.05 | 2.34 | 2.54 | 2.58 | 2.39 | 2.17 |
| 28 | 1.78 | 1.51 | 1.38 | 1.37 | 1.47 | 1.73 | 2.06 | 2.35 | 2.54 | 2.57 | 2.39 | 2.17 |
| 29 | 1.77 | 1.51 | 1.38 | 1.37 | 1.47 | 1.74 | 2.07 | 2.36 | 2.54 | 2.57 | 2.38 | 2.16 |
| 30 | 1.77 | --- | 1.39 | 1.36 | 1.48 | 1.75 | 2.08 | 2.37 | 2.55 | 2.56 | 2.38 | 2.15 |
| 31 | 1.76 | --- | 1.38 | --- | 1.49 | --- | 2.09 | 2.38 | --- | 2.56 | --- | 2.14 |
| Max | 1.97 | 1.76 | 1.50 | 1.38 | 1.49 | 1.75 | 2.09 | 2.38 | 2.55 | 2.59 | 2.56 | 2.37 |
| Min | 1.76 | 1.51 | 1.38 | 1.36 | 1.37 | 1.49 | 1.76 | 2.10 | 2.39 | 2.55 | 2.38 | 2.14 |

Year 2016 Statistics: Year Max 2.59; Year Min 1.36

Note: Water level in ft bgs.

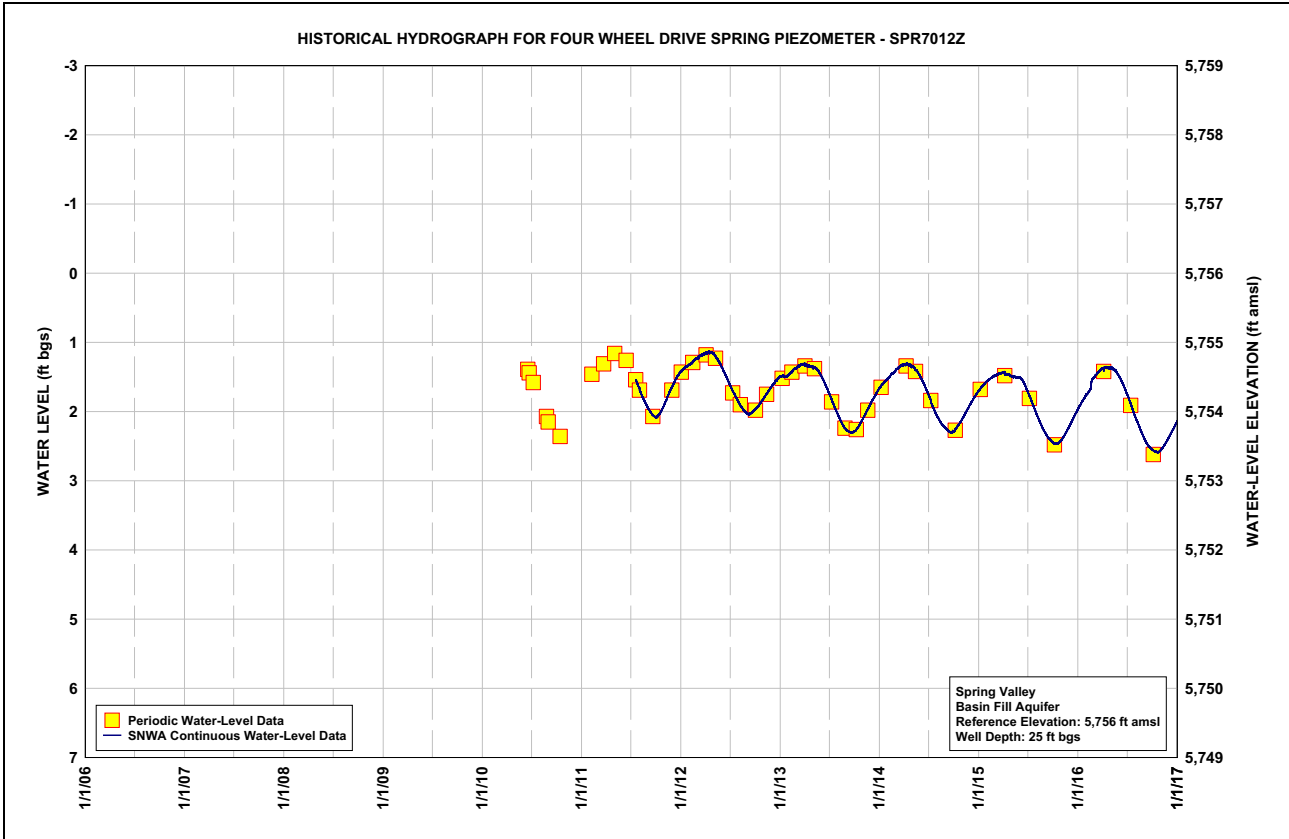
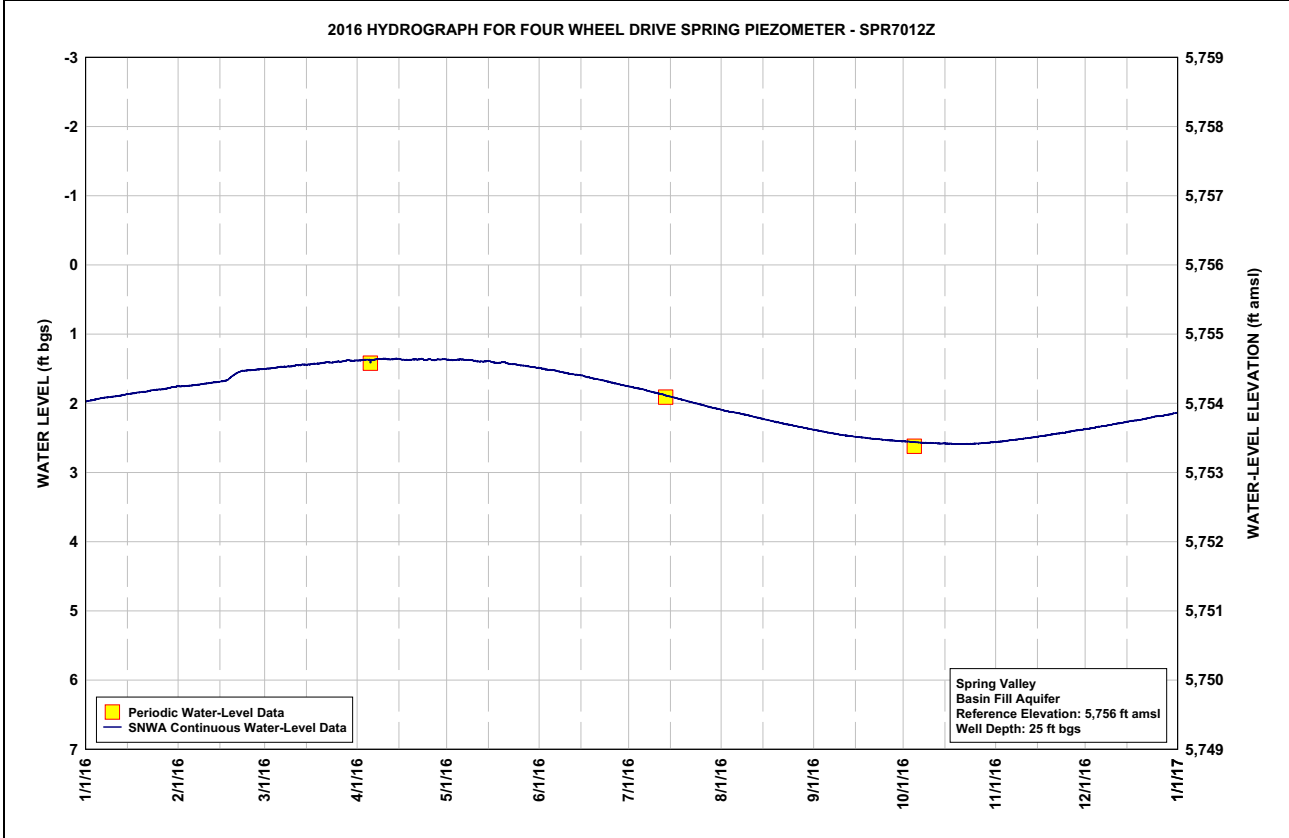




Table C-8
The Seep Piezometer SPR7014Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 14.59 | 14.68 | 14.48 | 14.66 | 14.71 | 14.80 | 14.99 | 15.24 | 15.45 | 15.61 | 15.73 | 15.83 |
| 2 | 14.60 | 14.68 | 14.50 | 14.66 | 14.71 | 14.81 | 15.00 | 15.25 | 15.46 | 15.61 | 15.73 | 15.84 |
| 3 | 14.60 | 14.69 | 14.51 | 14.67 | 14.71 | 14.82 | 15.01 | 15.25 | 15.46 | 15.61 | 15.73 | 15.84 |
| 4 | 14.60 | 14.69 | 14.52 | 14.67 | 14.71 | 14.82 | 15.01 | 15.26 | 15.47 | 15.62 | 15.74 | 15.84 |
| 5 | 14.61 | 14.69 | 14.53 | 14.67 | 14.71 | 14.83 | 15.02 | 15.26 | 15.47 | 15.62 | 15.74 | 15.85 |
| 6 | 14.61 | 14.69 | 14.54 | 14.67 | 14.72 | 14.83 | 15.03 | 15.27 | 15.48 | 15.63 | 15.74 | 15.85 |
| 7 | 14.61 | 14.70 | 14.55 | 14.67 | 14.72 | 14.84 | 15.04 | 15.28 | 15.49 | 15.63 | 15.75 | 15.85 |
| 8 | 14.62 | 14.70 | 14.56 | 14.67 | 14.72 | 14.85 | 15.04 | 15.28 | 15.49 | 15.63 | 15.75 | 15.86 |
| 9 | 14.62 | 14.70 | 14.57 | 14.67 | 14.72 | 14.86 | 15.05 | 15.29 | 15.50 | 15.64 | 15.75 | 15.86 |
| 10 | 14.62 | 14.70 | 14.58 | 14.67 | 14.73 | 14.87 | 15.06 | 15.30 | 15.50 | 15.64 | 15.76 | 15.86 |
| 11 | 14.62 | 14.71 | 14.59 | 14.68 | 14.73 | 14.87 | 15.07 | 15.31 | 15.51 | 15.65 | 15.76 | 15.87 |
| 12 | 14.63 | 14.71 | 14.59 | 14.68 | 14.73 | 14.87 | 15.08 | 15.31 | 15.51 | 15.65 | 15.77 | 15.87 |
| 13 | 14.63 | 14.71 | 14.60 | 14.68 | 14.73 | 14.88 | 15.09 | 15.32 | 15.52 | 15.65 | 15.77 | 15.88 |
| 14 | 14.63 | 14.71 | 14.61 | 14.68 | 14.73 | 14.88 | 15.09 | 15.33 | 15.53 | 15.66 | 15.77 | 15.88 |
| 15 | 14.63 | 14.71 | 14.61 | 14.68 | 14.74 | 14.89 | 15.10 | 15.34 | 15.53 | 15.66 | 15.78 | 15.88 |
| 16 | 14.64 | 14.71 | 14.62 | 14.68 | 14.74 | 14.89 | 15.11 | 15.34 | 15.54 | 15.67 | 15.78 | 15.88 |
| 17 | 14.64 | 14.71 | 14.62 | 14.69 | 14.74 | 14.90 | 15.12 | 15.35 | 15.54 | 15.67 | 15.79 | 15.89 |
| 18 | 14.64 | 14.37 | 14.63 | 14.69 | 14.75 | 14.90 | 15.13 | 15.36 | 15.55 | 15.68 | 15.79 | 15.89 |
| 19 | 14.65 | 14.28 | 14.63 | 14.69 | 14.75 | 14.91 | 15.13 | 15.37 | 15.55 | 15.68 | 15.79 | 15.89 |
| 20 | 14.65 | 14.29 | 14.63 | 14.69 | 14.75 | 14.92 | 15.15 | 15.37 | 15.56 | 15.68 | 15.79 | 15.90 |
| 21 | 14.65 | 14.30 | 14.63 | 14.69 | 14.76 | 14.93 | 15.15 | 15.38 | 15.56 | 15.69 | 15.80 | 15.90 |
| 22 | 14.65 | 14.33 | 14.64 | 14.69 | 14.76 | 14.93 | 15.16 | 15.39 | 15.56 | 15.69 | 15.80 | 15.90 |
| 23 | 14.65 | 14.35 | 14.64 | 14.70 | 14.76 | 14.94 | 15.17 | 15.39 | 15.57 | 15.69 | 15.81 | 15.91 |
| 24 | 14.66 | 14.38 | 14.65 | 14.70 | 14.77 | 14.95 | 15.18 | 15.40 | 15.57 | 15.70 | 15.81 | 15.90 |
| 25 | 14.66 | 14.40 | 14.65 | 14.70 | 14.77 | 14.95 | 15.19 | 15.40 | 15.58 | 15.70 | 15.81 | 15.91 |
| 26 | 14.67 | 14.42 | 14.65 | 14.70 | 14.77 | 14.96 | 15.19 | 15.41 | 15.58 | 15.70 | 15.82 | 15.92 |
| 27 | 14.67 | 14.44 | 14.65 | 14.70 | 14.78 | 14.97 | 15.20 | 15.42 | 15.59 | 15.71 | 15.82 | 15.92 |
| 28 | 14.67 | 14.45 | 14.65 | 14.70 | 14.78 | 14.98 | 15.21 | 15.42 | 15.59 | 15.71 | 15.82 | 15.92 |
| 29 | 14.67 | 14.47 | 14.65 | 14.70 | 14.79 | 14.99 | 15.22 | 15.43 | 15.60 | 15.72 | 15.83 | 15.93 |
| 30 | 14.67 | --- | 14.66 | 14.71 | 14.79 | 14.99 | 15.22 | 15.43 | 15.60 | 15.72 | 15.83 | 15.93 |
| 31 | 14.67 | --- | 14.66 | --- | 14.80 | --- | 15.23 | 15.44 | --- | 15.72 | --- | 15.93 |
| Max | 14.67 | 14.71 | 14.66 | 14.71 | 14.80 | 14.99 | 15.23 | 15.44 | 15.60 | 15.72 | 15.83 | 15.93 |
| Min | 14.59 | 14.28 | 14.48 | 14.66 | 14.71 | 14.80 | 14.99 | 15.24 | 15.45 | 15.61 | 15.73 | 15.83 |

Year 2016 Statistics: Year Max 15.93; Year Min 14.28

Note: Water level in ft bgs.

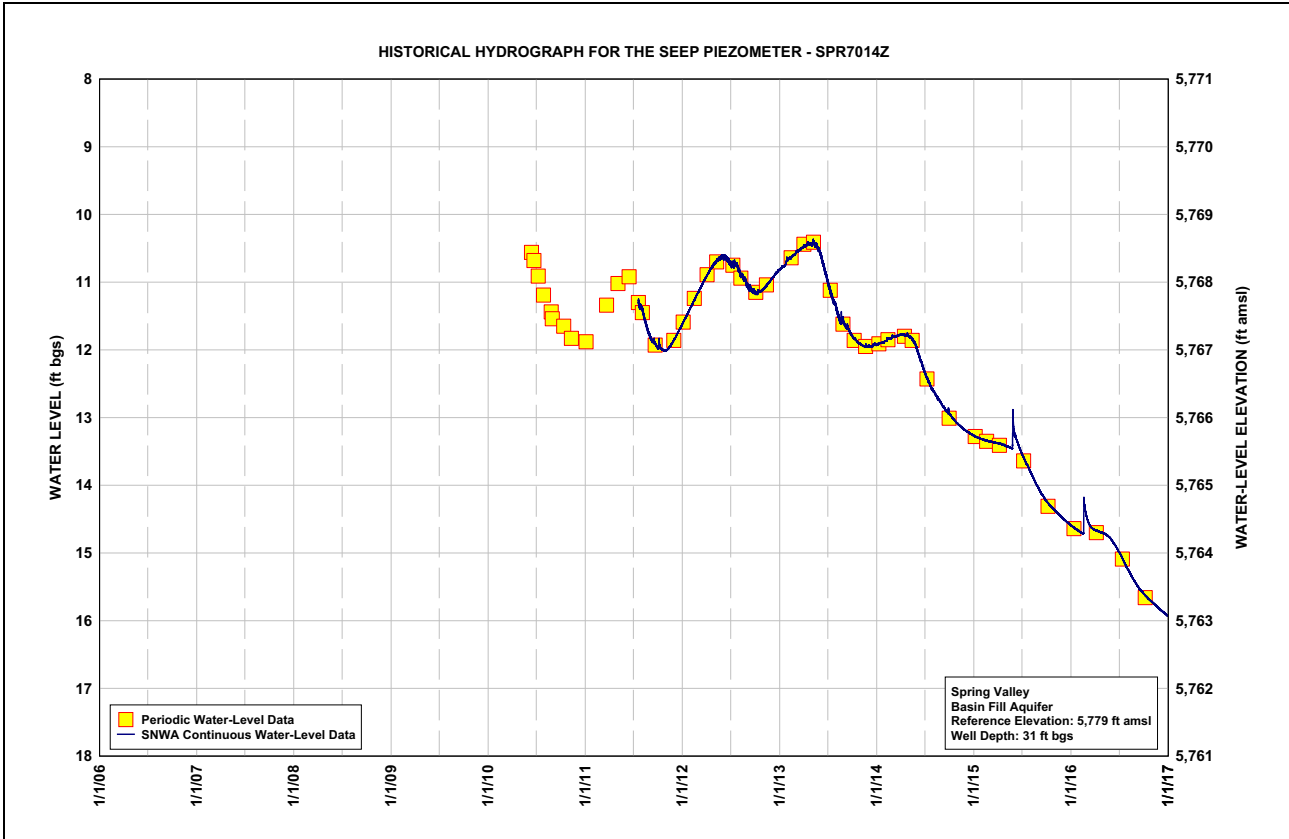
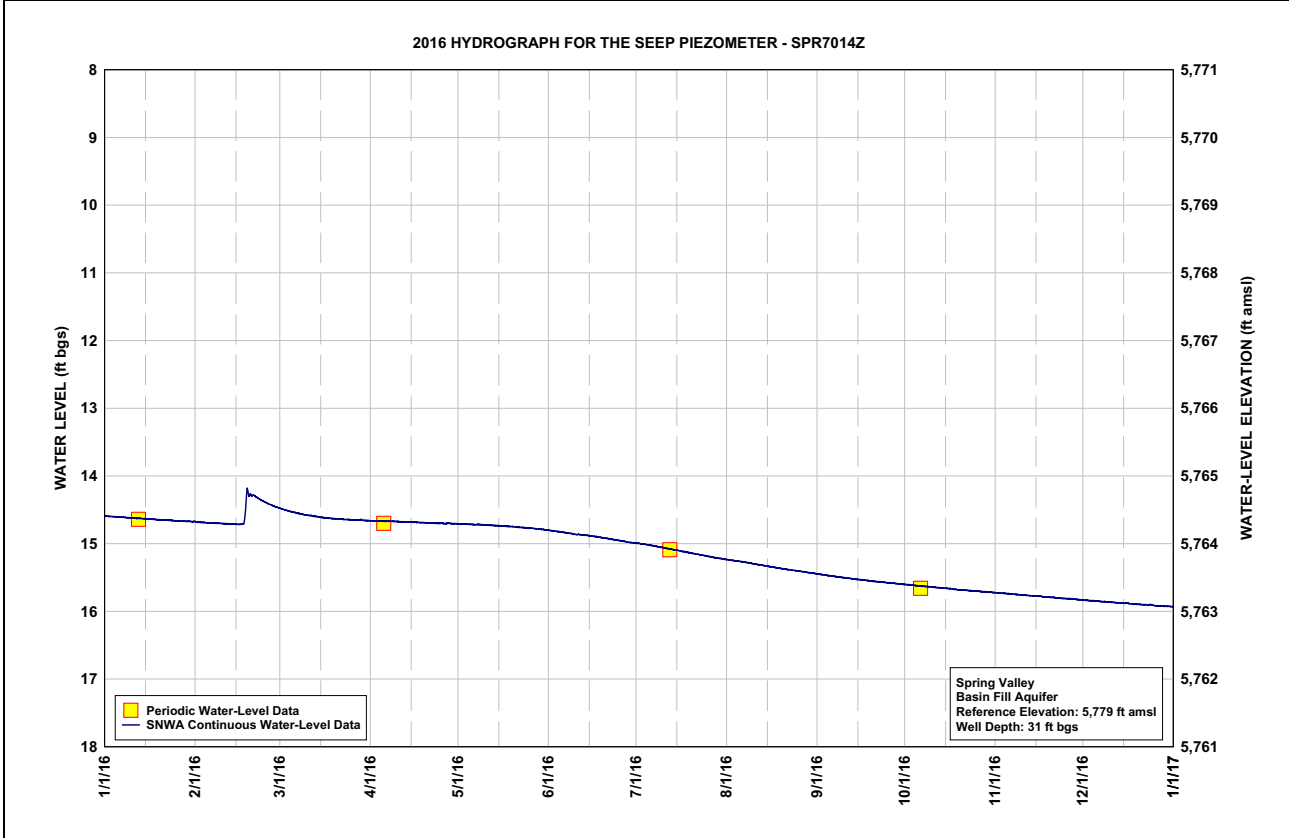


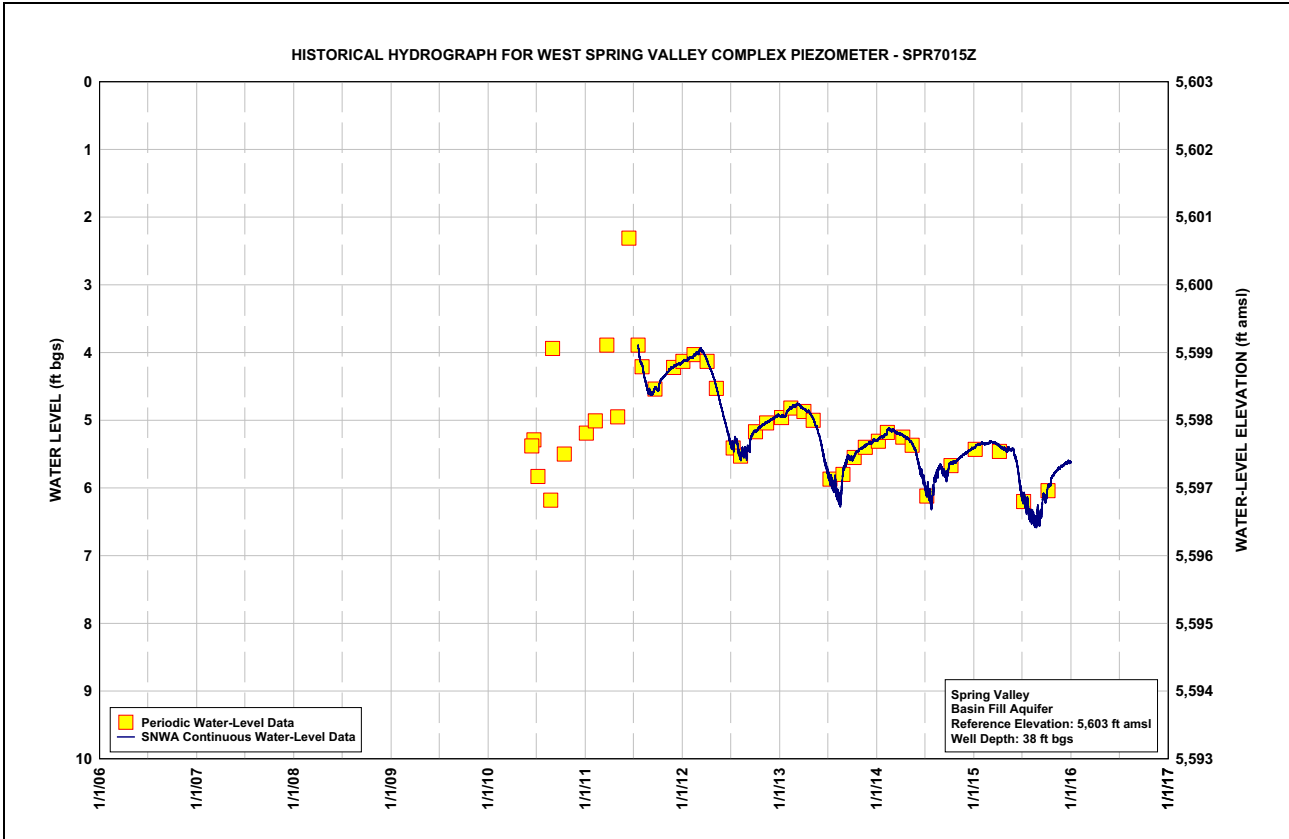
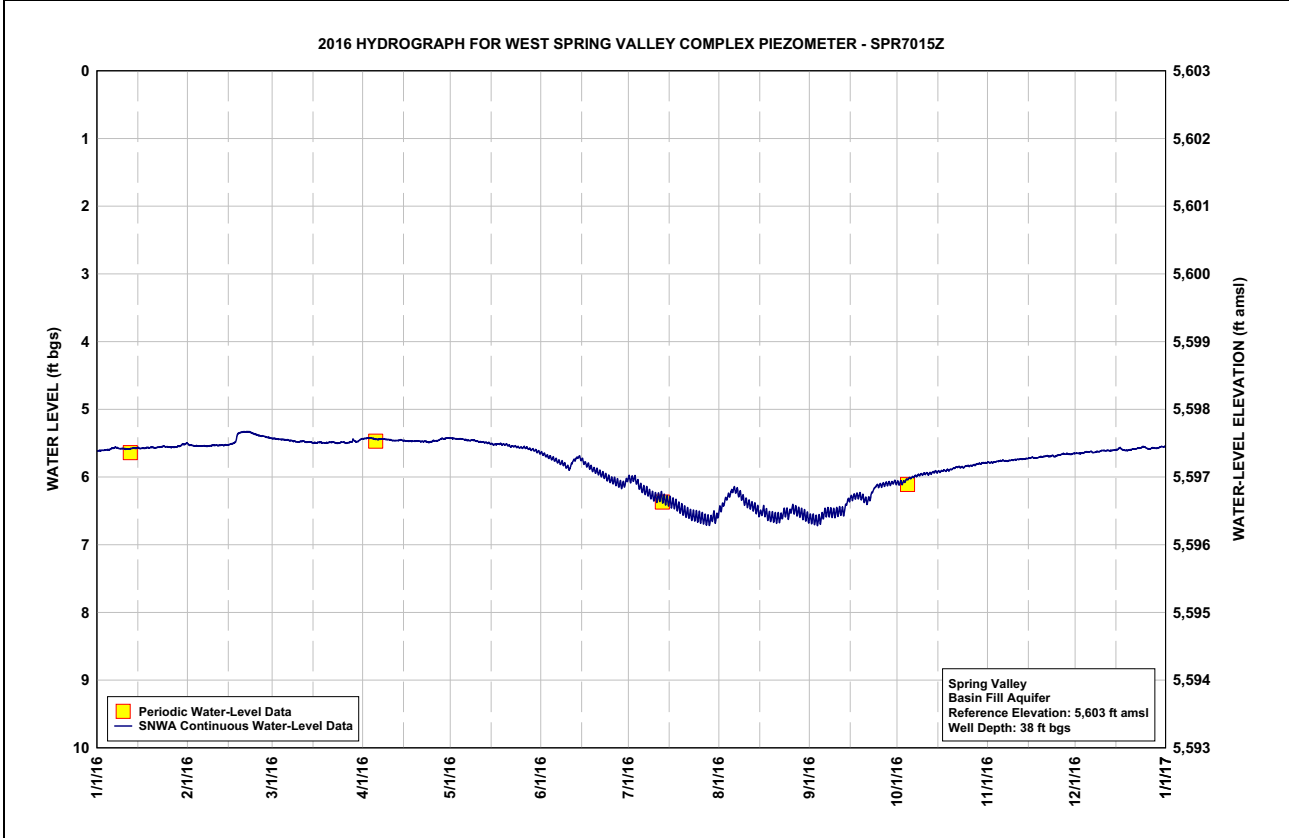


Table C-9
West Spring Valley Complex Piezometer SPR7015Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 5.61 | 5.52 | 5.43 | 5.43 | 5.43 | 5.65 | 6.03 | 6.47 | 6.61 | 6.09 | 5.78 | 5.65 |
| 2 | 5.61 | 5.53 | 5.44 | 5.43 | 5.43 | 5.68 | 6.03 | 6.41 | 6.62 | 6.08 | 5.78 | 5.65 |
| 3 | 5.60 | 5.54 | 5.44 | 5.43 | 5.44 | 5.70 | 6.04 | 6.33 | 6.65 | 6.07 | 5.78 | 5.64 |
| 4 | 5.60 | 5.54 | 5.45 | 5.43 | 5.44 | 5.72 | 6.13 | 6.27 | 6.64 | 6.04 | 5.77 | 5.63 |
| 5 | 5.59 | 5.54 | 5.45 | 5.44 | 5.44 | 5.74 | 6.18 | 6.21 | 6.58 | 6.01 | 5.76 | 5.63 |
| 6 | 5.57 | 5.54 | 5.45 | 5.45 | 5.45 | 5.76 | 6.21 | 6.19 | 6.53 | 6.00 | 5.76 | 5.63 |
| 7 | 5.56 | 5.54 | 5.46 | 5.44 | 5.46 | 5.79 | 6.21 | 6.21 | 6.52 | 5.98 | 5.76 | 5.64 |
| 8 | 5.58 | 5.54 | 5.47 | 5.44 | 5.45 | 5.80 | 6.27 | 6.26 | 6.53 | 5.97 | 5.76 | 5.63 |
| 9 | 5.58 | 5.53 | 5.48 | 5.45 | 5.46 | 5.84 | 6.30 | 6.32 | 6.53 | 5.96 | 5.75 | 5.62 |
| 10 | 5.58 | 5.53 | 5.48 | 5.45 | 5.48 | 5.87 | 6.30 | 6.37 | 6.52 | 5.95 | 5.74 | 5.61 |
| 11 | 5.59 | 5.53 | 5.47 | 5.46 | 5.48 | 5.81 | 6.30 | 6.40 | 6.51 | 5.95 | 5.74 | 5.61 |
| 12 | 5.58 | 5.53 | 5.48 | 5.46 | 5.49 | 5.75 | 6.29 | 6.42 | 6.51 | 5.94 | 5.73 | 5.61 |
| 13 | 5.57 | 5.53 | 5.48 | 5.46 | 5.49 | 5.72 | 6.33 | 6.45 | 6.41 | 5.93 | 5.73 | 5.61 |
| 14 | 5.57 | 5.53 | 5.49 | 5.46 | 5.50 | 5.72 | 6.35 | 6.49 | 6.34 | 5.92 | 5.73 | 5.60 |
| 15 | 5.58 | 5.52 | 5.49 | 5.46 | 5.51 | 5.76 | 6.37 | 6.53 | 6.30 | 5.92 | 5.72 | 5.60 |
| 16 | 5.58 | 5.51 | 5.49 | 5.47 | 5.52 | 5.81 | 6.39 | 6.50 | 6.29 | 5.91 | 5.71 | 5.57 |
| 17 | 5.57 | 5.48 | 5.49 | 5.47 | 5.51 | 5.83 | 6.41 | 6.54 | 6.28 | 5.90 | 5.72 | 5.60 |
| 18 | 5.57 | 5.36 | 5.49 | 5.47 | 5.51 | 5.88 | 6.46 | 6.59 | 6.28 | 5.90 | 5.71 | 5.61 |
| 19 | 5.57 | 5.34 | 5.50 | 5.47 | 5.52 | 5.90 | 6.48 | 6.59 | 6.31 | 5.89 | 5.70 | 5.60 |
| 20 | 5.57 | 5.33 | 5.49 | 5.47 | 5.52 | 5.92 | 6.52 | 6.60 | 6.34 | 5.87 | 5.69 | 5.59 |
| 21 | 5.57 | 5.33 | 5.48 | 5.48 | 5.55 | 5.96 | 6.54 | 6.60 | 6.32 | 5.85 | 5.69 | 5.59 |
| 22 | 5.56 | 5.34 | 5.49 | 5.47 | 5.55 | 5.97 | 6.58 | 6.59 | 6.23 | 5.85 | 5.69 | 5.58 |
| 23 | 5.55 | 5.36 | 5.50 | 5.49 | 5.55 | 6.01 | 6.58 | 6.53 | 6.15 | 5.85 | 5.68 | 5.57 |
| 24 | 5.55 | 5.37 | 5.49 | 5.48 | 5.56 | 6.03 | 6.59 | 6.53 | 6.12 | 5.84 | 5.69 | 5.55 |
| 25 | 5.55 | 5.39 | 5.49 | 5.46 | 5.57 | 6.05 | 6.60 | 6.51 | 6.12 | 5.84 | 5.67 | 5.57 |
| 26 | 5.56 | 5.39 | 5.50 | 5.46 | 5.56 | 6.06 | 6.62 | 6.47 | 6.11 | 5.83 | 5.66 | 5.58 |
| 27 | 5.56 | 5.40 | 5.49 | 5.44 | 5.58 | 6.09 | 6.64 | 6.49 | 6.10 | 5.82 | 5.66 | 5.57 |
| 28 | 5.55 | 5.42 | 5.47 | 5.43 | 5.60 | 6.12 | 6.65 | 6.52 | 6.09 | 5.81 | 5.66 | 5.57 |
| 29 | 5.54 | 5.42 | 5.47 | 5.43 | 5.60 | 6.11 | 6.62 | 6.53 | 6.08 | 5.80 | 5.66 | 5.57 |
| 30 | 5.52 | --- | 5.47 | 5.42 | 5.62 | 6.05 | 6.58 | 6.56 | 6.08 | 5.79 | 5.65 | 5.55 |
| 31 | 5.51 | --- | 5.44 | --- | 5.64 | --- | 6.58 | 6.60 | --- | 5.79 | --- | 5.55 |
| Max | 5.61 | 5.54 | 5.50 | 5.49 | 5.64 | 6.12 | 6.65 | 6.60 | 6.65 | 6.09 | 5.78 | 5.65 |
| Min | 5.51 | 5.33 | 5.43 | 5.42 | 5.43 | 5.65 | 6.03 | 6.19 | 6.08 | 5.79 | 5.65 | 5.55 |

Year 2016 Statistics: Year Max 6.65; Year Min 5.33

Note: Water level in ft bgs.





**Table C-10
 Unnamed Spring Five Piezometer SPR7016Z, Calendar Year 2016
 Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 3.08 | 3.04 | 2.73 | 2.65 | 2.59 | 2.67 | 2.92 | 3.14 | 3.28 | 3.35 | 3.40 | 3.43 |
| 2 | 3.08 | 3.04 | 2.74 | 2.65 | 2.59 | 2.68 | 2.92 | 3.14 | 3.28 | 3.35 | 3.40 | 3.44 |
| 3 | 3.08 | 3.04 | 2.73 | 2.64 | 2.59 | 2.69 | 2.94 | 3.14 | 3.29 | 3.36 | 3.40 | 3.43 |
| 4 | 3.07 | 3.03 | 2.73 | 2.64 | 2.59 | 2.70 | 2.97 | 3.14 | 3.30 | 3.35 | 3.40 | 3.42 |
| 5 | 3.07 | 3.03 | 2.73 | 2.65 | 2.59 | 2.71 | 2.98 | 3.13 | 3.29 | 3.35 | 3.40 | 3.43 |
| 6 | 3.07 | 3.02 | 2.72 | 2.64 | 2.59 | 2.72 | 3.00 | 3.15 | 3.30 | 3.35 | 3.41 | 3.42 |
| 7 | 3.06 | 3.01 | 2.73 | 2.63 | 2.59 | 2.73 | 3.00 | 3.17 | 3.30 | 3.36 | 3.42 | 3.43 |
| 8 | 3.07 | 3.00 | 2.73 | 2.63 | 2.58 | 2.74 | 3.02 | 3.17 | 3.31 | 3.36 | 3.41 | 3.42 |
| 9 | 3.07 | 2.99 | 2.73 | 2.63 | 2.58 | 2.77 | 3.02 | 3.18 | 3.32 | 3.36 | 3.42 | 3.42 |
| 10 | 3.07 | 2.98 | 2.72 | 2.63 | 2.59 | 2.77 | 3.03 | 3.18 | 3.31 | 3.36 | 3.42 | 3.42 |
| 11 | 3.08 | 2.97 | 2.71 | 2.63 | 2.59 | 2.74 | 3.02 | 3.18 | 3.32 | 3.37 | 3.42 | 3.44 |
| 12 | 3.08 | 2.96 | 2.72 | 2.62 | 2.59 | 2.73 | 3.03 | 3.19 | 3.33 | 3.37 | 3.42 | 3.44 |
| 13 | 3.07 | 2.96 | 2.71 | 2.62 | 2.60 | 2.73 | 3.06 | 3.19 | 3.32 | 3.37 | 3.42 | 3.44 |
| 14 | 3.07 | 2.96 | 2.71 | 2.62 | 2.60 | 2.75 | 3.06 | 3.20 | 3.32 | 3.38 | 3.42 | 3.44 |
| 15 | 3.08 | 2.95 | 2.71 | 2.62 | 2.60 | 2.78 | 3.07 | 3.21 | 3.32 | 3.38 | 3.42 | 3.44 |
| 16 | 3.08 | 2.94 | 2.71 | 2.62 | 2.60 | 2.80 | 3.07 | 3.21 | 3.33 | 3.38 | 3.42 | 3.44 |
| 17 | 3.08 | 2.93 | 2.70 | 2.62 | 2.60 | 2.81 | 3.08 | 3.22 | 3.33 | 3.39 | 3.43 | 3.45 |
| 18 | 3.08 | 2.78 | 2.70 | 2.62 | 2.60 | 2.83 | 3.09 | 3.22 | 3.34 | 3.39 | 3.42 | 3.45 |
| 19 | 3.08 | 2.76 | 2.70 | 2.62 | 2.60 | 2.83 | 3.10 | 3.22 | 3.36 | 3.39 | 3.42 | 3.44 |
| 20 | 3.08 | 2.72 | 2.69 | 2.62 | 2.60 | 2.85 | 3.10 | 3.23 | 3.35 | 3.38 | 3.42 | 3.44 |
| 21 | 3.08 | 2.71 | 2.69 | 2.62 | 2.61 | 2.86 | 3.11 | 3.23 | 3.35 | 3.38 | 3.42 | 3.44 |
| 22 | 3.07 | 2.71 | 2.69 | 2.62 | 2.61 | 2.87 | 3.12 | 3.22 | 3.32 | 3.39 | 3.43 | 3.44 |
| 23 | 3.07 | 2.71 | 2.69 | 2.63 | 2.61 | 2.89 | 3.12 | 3.23 | 3.32 | 3.39 | 3.42 | 3.43 |
| 24 | 3.07 | 2.70 | 2.69 | 2.62 | 2.61 | 2.90 | 3.12 | 3.23 | 3.33 | 3.39 | 3.43 | 3.43 |
| 25 | 3.07 | 2.70 | 2.68 | 2.60 | 2.61 | 2.91 | 3.13 | 3.23 | 3.34 | 3.39 | 3.42 | 3.44 |
| 26 | 3.07 | 2.69 | 2.69 | 2.60 | 2.62 | 2.91 | 3.13 | 3.24 | 3.34 | 3.39 | 3.42 | 3.44 |
| 27 | 3.07 | 2.71 | 2.68 | 2.59 | 2.62 | 2.92 | 3.14 | 3.25 | 3.35 | 3.39 | 3.43 | 3.43 |
| 28 | 3.06 | 2.73 | 2.67 | 2.58 | 2.63 | 2.93 | 3.15 | 3.25 | 3.35 | 3.39 | 3.43 | 3.44 |
| 29 | 3.05 | 2.74 | 2.66 | 2.59 | 2.64 | 2.93 | 3.13 | 3.26 | 3.34 | 3.39 | 3.44 | 3.43 |
| 30 | 3.04 | --- | 2.66 | 2.59 | 2.64 | 2.91 | 3.14 | 3.27 | 3.34 | 3.39 | 3.43 | 3.42 |
| 31 | 3.03 | --- | 2.65 | --- | 2.66 | --- | 3.13 | 3.27 | --- | 3.40 | --- | 3.43 |
| Max | 3.08 | 3.04 | 2.74 | 2.65 | 2.66 | 2.93 | 3.15 | 3.27 | 3.36 | 3.40 | 3.44 | 3.45 |
| Min | 3.03 | 2.69 | 2.65 | 2.58 | 2.58 | 2.67 | 2.92 | 3.13 | 3.28 | 3.35 | 3.40 | 3.42 |

Year 2016 Statistics: Year Max 3.45; Year Min 2.58

Note: Water level in ft bgs.

^aSite inaccessible. Data currently unavailable.

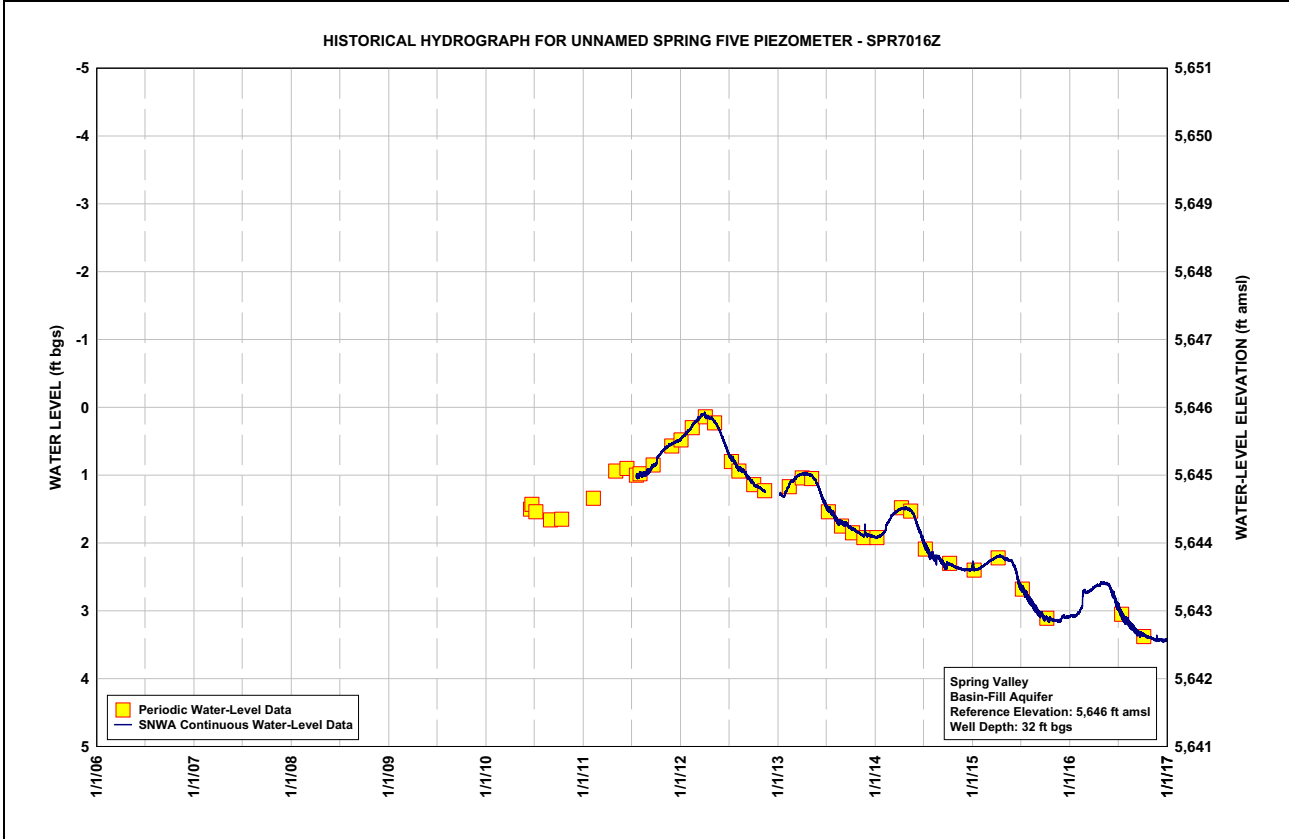
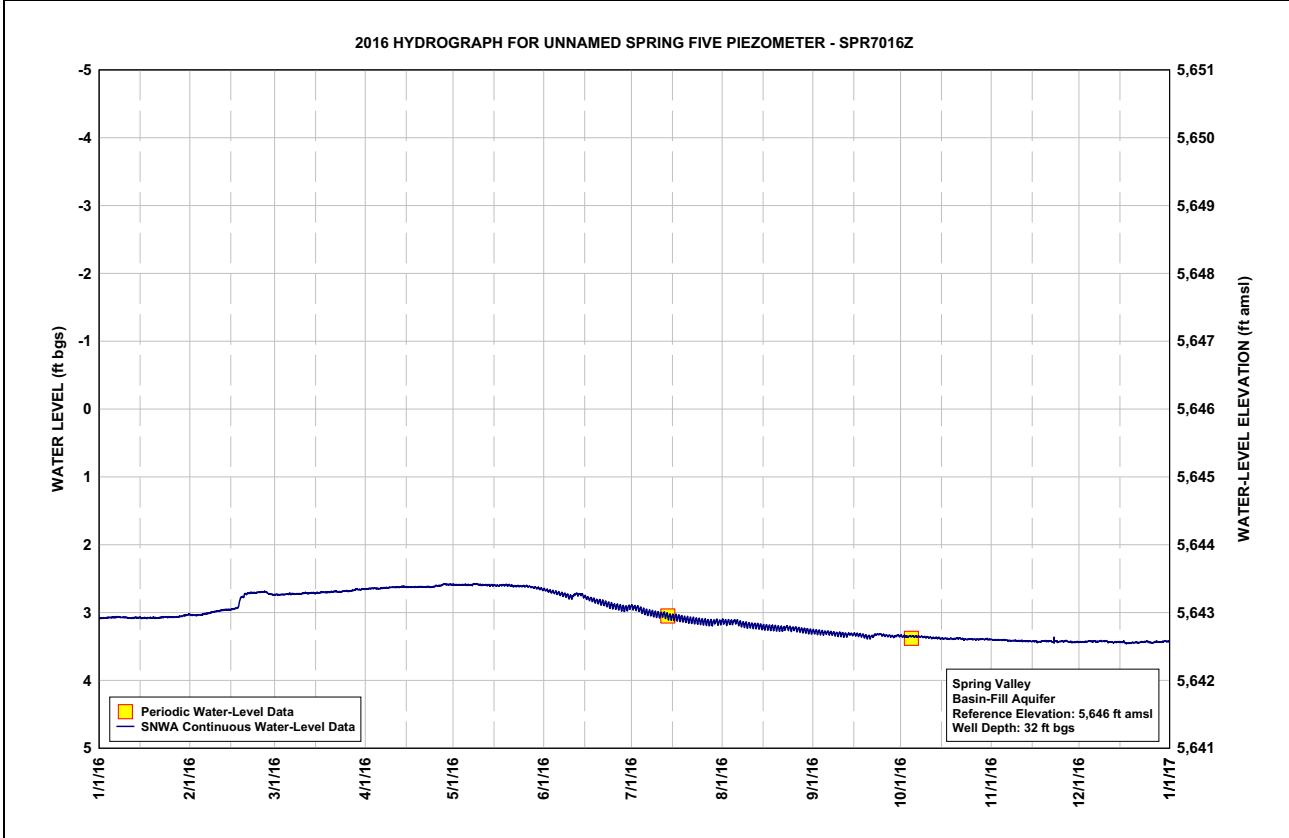


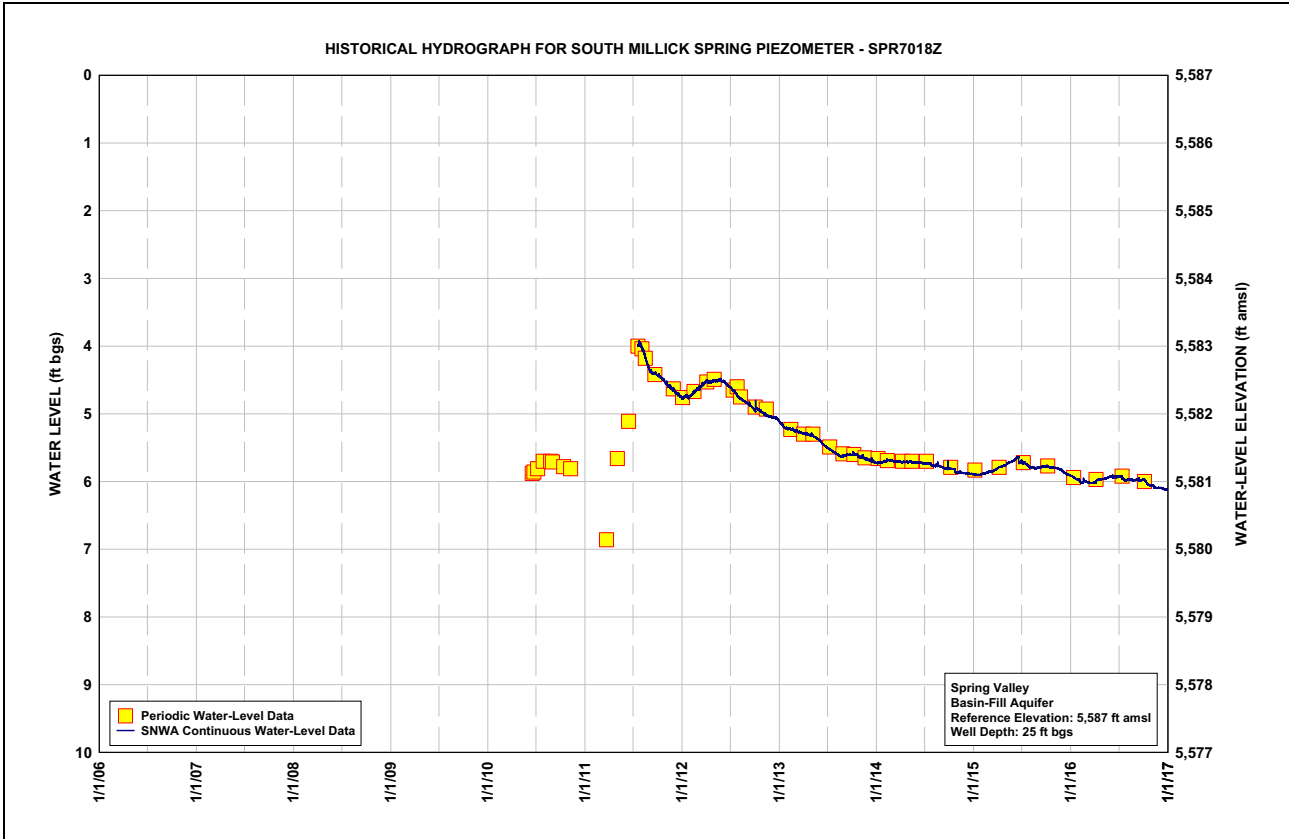
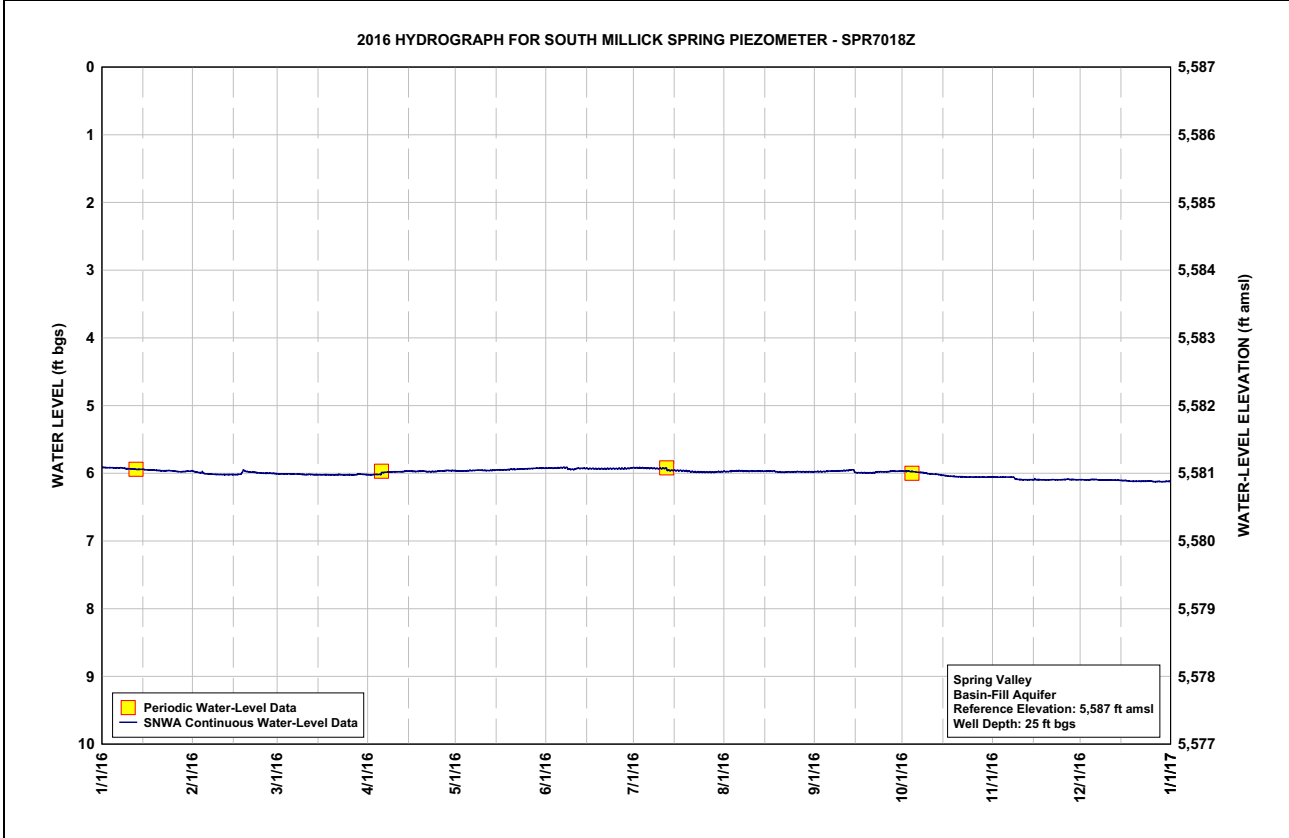


Table C-11
South Millick Spring Piezometer SPR7018Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 5.91 | 5.97 | 6.01 | 6.02 | 5.96 | 5.92 | 5.92 | 5.97 | 5.98 | 5.97 | 6.06 | 6.09 |
| 2 | 5.92 | 5.98 | 6.01 | 6.02 | 5.96 | 5.92 | 5.92 | 5.97 | 5.98 | 5.97 | 6.06 | 6.10 |
| 3 | 5.92 | 5.99 | 6.01 | 6.02 | 5.97 | 5.92 | 5.92 | 5.97 | 5.98 | 5.97 | 6.06 | 6.10 |
| 4 | 5.92 | 5.99 | 6.01 | 6.02 | 5.96 | 5.92 | 5.92 | 5.96 | 5.97 | 5.98 | 6.06 | 6.09 |
| 5 | 5.92 | 6.01 | 6.01 | 6.02 | 5.96 | 5.92 | 5.92 | 5.96 | 5.97 | 5.98 | 6.06 | 6.09 |
| 6 | 5.92 | 6.01 | 6.01 | 5.99 | 5.96 | 5.92 | 5.92 | 5.96 | 5.97 | 5.98 | 6.06 | 6.09 |
| 7 | 5.92 | 6.01 | 6.01 | 5.99 | 5.96 | 5.91 | 5.92 | 5.97 | 5.97 | 5.99 | 6.06 | 6.10 |
| 8 | 5.92 | 6.02 | 6.01 | 5.98 | 5.95 | 5.93 | 5.93 | 5.97 | 5.97 | 5.99 | 6.07 | 6.10 |
| 9 | 5.93 | 6.02 | 6.02 | 5.98 | 5.95 | 5.94 | 5.93 | 5.97 | 5.96 | 6.00 | 6.09 | 6.10 |
| 10 | 5.93 | 6.02 | 6.02 | 5.98 | 5.96 | 5.94 | 5.93 | 5.97 | 5.96 | 6.01 | 6.09 | 6.10 |
| 11 | 5.94 | 6.02 | 6.02 | 5.98 | 5.96 | 5.93 | 5.93 | 5.97 | 5.96 | 6.01 | 6.10 | 6.10 |
| 12 | 5.94 | 6.02 | 6.02 | 5.98 | 5.96 | 5.93 | 5.95 | 5.97 | 5.96 | 6.01 | 6.09 | 6.10 |
| 13 | 5.94 | 6.02 | 6.02 | 5.97 | 5.96 | 5.93 | 5.96 | 5.97 | 5.95 | 6.02 | 6.10 | 6.10 |
| 14 | 5.94 | 6.02 | 6.02 | 5.97 | 5.95 | 5.93 | 5.96 | 5.97 | 5.95 | 6.03 | 6.09 | 6.10 |
| 15 | 5.94 | 6.02 | 6.02 | 5.97 | 5.95 | 5.93 | 5.96 | 5.97 | 5.99 | 6.03 | 6.09 | 6.11 |
| 16 | 5.95 | 6.02 | 6.02 | 5.97 | 5.95 | 5.93 | 5.96 | 5.97 | 5.99 | 6.04 | 6.09 | 6.11 |
| 17 | 5.95 | 6.01 | 6.02 | 5.97 | 5.95 | 5.93 | 5.96 | 5.97 | 5.99 | 6.04 | 6.10 | 6.11 |
| 18 | 5.95 | 5.96 | 6.02 | 5.97 | 5.95 | 5.93 | 5.96 | 5.97 | 5.99 | 6.04 | 6.10 | 6.12 |
| 19 | 5.96 | 5.97 | 6.02 | 5.97 | 5.94 | 5.93 | 5.97 | 5.98 | 5.99 | 6.05 | 6.10 | 6.12 |
| 20 | 5.96 | 5.98 | 6.02 | 5.97 | 5.94 | 5.93 | 5.98 | 5.98 | 5.99 | 6.05 | 6.10 | 6.12 |
| 21 | 5.96 | 5.98 | 6.02 | 5.98 | 5.94 | 5.93 | 5.98 | 5.98 | 5.99 | 6.05 | 6.09 | 6.12 |
| 22 | 5.96 | 5.99 | 6.02 | 5.98 | 5.94 | 5.93 | 5.98 | 5.98 | 5.98 | 6.05 | 6.10 | 6.12 |
| 23 | 5.96 | 5.99 | 6.02 | 5.97 | 5.94 | 5.93 | 5.98 | 5.98 | 5.98 | 6.06 | 6.10 | 6.12 |
| 24 | 5.96 | 6.00 | 6.02 | 5.97 | 5.93 | 5.93 | 5.98 | 5.98 | 5.98 | 6.06 | 6.10 | 6.11 |
| 25 | 5.97 | 6.00 | 6.02 | 5.97 | 5.93 | 5.93 | 5.98 | 5.98 | 5.98 | 6.06 | 6.09 | 6.12 |
| 26 | 5.97 | 6.00 | 6.02 | 5.97 | 5.93 | 5.93 | 5.98 | 5.98 | 5.98 | 6.06 | 6.09 | 6.12 |
| 27 | 5.98 | 6.00 | 6.02 | 5.96 | 5.93 | 5.93 | 5.98 | 5.98 | 5.97 | 6.06 | 6.09 | 6.12 |
| 28 | 5.98 | 6.00 | 6.02 | 5.96 | 5.93 | 5.93 | 5.98 | 5.98 | 5.97 | 6.05 | 6.09 | 6.12 |
| 29 | 5.97 | 6.00 | 6.01 | 5.96 | 5.92 | 5.92 | 5.98 | 5.98 | 5.97 | 6.06 | 6.10 | 6.12 |
| 30 | 5.97 | --- | 6.02 | 5.96 | 5.92 | 5.92 | 5.98 | 5.98 | 5.97 | 6.06 | 6.10 | 6.12 |
| 31 | 5.97 | --- | 6.02 | --- | 5.92 | --- | 5.98 | 5.98 | --- | 6.06 | --- | --- |
| Max | 5.98 | 6.02 | 6.02 | 6.02 | 5.97 | 5.94 | 5.98 | 5.98 | 5.99 | 6.06 | 6.10 | 6.12 |
| Min | 5.91 | 5.96 | 6.01 | 5.96 | 5.92 | 5.91 | 5.92 | 5.96 | 5.95 | 5.97 | 6.06 | 6.09 |

Year 2016 Statistics: Year Max 6.12; Year Min 5.91

Note: Water level in ft bgs.





**Table C-12
Layton Spring Piezometer SPR7019Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|------|------|------|------|------|------|------|------|-------|-------|------|
| 1 | 9.70 | 9.59 | 9.40 | 9.31 | 9.17 | 9.24 | 9.48 | 9.76 | 9.93 | 9.96 | 10.00 | 9.95 |
| 2 | 9.70 | 9.59 | 9.40 | 9.30 | 9.16 | 9.23 | 9.48 | 9.77 | 9.94 | 9.97 | 10.00 | 9.95 |
| 3 | 9.69 | 9.59 | 9.41 | 9.29 | 9.16 | 9.23 | 9.50 | 9.77 | 9.95 | 9.97 | 10.00 | 9.95 |
| 4 | 9.68 | 9.58 | 9.41 | 9.29 | 9.16 | 9.24 | 9.52 | 9.77 | 9.94 | 9.96 | 10.01 | 9.94 |
| 5 | 9.68 | 9.58 | 9.41 | 9.29 | 9.17 | 9.24 | 9.54 | 9.76 | 9.94 | 9.96 | 10.01 | 9.94 |
| 6 | 9.68 | 9.57 | 9.40 | 9.28 | 9.16 | 9.24 | 9.54 | 9.79 | 9.95 | 9.95 | 10.00 | 9.94 |
| 7 | 9.67 | 9.57 | 9.40 | 9.28 | 9.16 | 9.26 | 9.54 | 9.79 | 9.96 | 9.95 | 10.01 | 9.94 |
| 8 | 9.67 | 9.57 | 9.40 | 9.28 | 9.15 | 9.27 | 9.56 | 9.79 | 9.97 | 9.95 | 10.00 | 9.93 |
| 9 | 9.67 | 9.56 | 9.41 | 9.27 | 9.16 | 9.29 | 9.56 | 9.80 | 9.97 | 9.95 | 10.00 | 9.94 |
| 10 | 9.67 | 9.56 | 9.40 | 9.27 | 9.16 | 9.32 | 9.58 | 9.80 | 9.98 | 9.96 | 10.00 | 9.93 |
| 11 | 9.67 | 9.55 | 9.39 | 9.27 | 9.16 | 9.30 | 9.60 | 9.80 | 9.97 | 9.97 | 10.00 | 9.93 |
| 12 | 9.67 | 9.55 | 9.40 | 9.28 | 9.16 | 9.29 | 9.61 | 9.81 | 9.97 | 9.97 | 10.00 | 9.93 |
| 13 | 9.66 | 9.55 | 9.39 | 9.27 | 9.16 | 9.30 | 9.62 | 9.81 | 9.97 | 9.97 | 10.00 | 9.93 |
| 14 | 9.66 | 9.55 | 9.39 | 9.27 | 9.16 | 9.31 | 9.62 | 9.81 | 9.96 | 9.98 | 10.00 | 9.92 |
| 15 | 9.65 | 9.53 | 9.39 | 9.27 | 9.17 | 9.32 | 9.62 | 9.82 | 9.96 | 9.99 | 10.00 | 9.92 |
| 16 | 9.65 | 9.52 | 9.39 | 9.26 | 9.17 | 9.33 | 9.64 | 9.82 | 9.96 | 9.99 | 9.99 | 9.91 |
| 17 | 9.65 | 9.50 | 9.38 | 9.25 | 9.16 | 9.34 | 9.64 | 9.83 | 9.97 | 10.00 | 9.99 | 9.91 |
| 18 | 9.64 | 9.44 | 9.38 | 9.25 | 9.17 | 9.35 | 9.64 | 9.84 | 9.98 | 10.01 | 9.99 | 9.91 |
| 19 | 9.64 | 9.41 | 9.38 | 9.25 | 9.18 | 9.36 | 9.64 | 9.86 | 9.99 | 10.01 | 9.99 | 9.91 |
| 20 | 9.63 | 9.37 | 9.37 | 9.24 | 9.17 | 9.37 | 9.65 | 9.86 | 9.99 | 10.01 | 9.99 | 9.90 |
| 21 | 9.63 | 9.36 | 9.37 | 9.24 | 9.18 | 9.38 | 9.66 | 9.88 | 9.97 | 10.01 | 9.98 | 9.90 |
| 22 | 9.63 | 9.36 | 9.36 | 9.24 | 9.18 | 9.38 | 9.67 | 9.89 | 9.96 | 10.01 | 9.99 | 9.90 |
| 23 | 9.62 | 9.37 | 9.36 | 9.24 | 9.18 | 9.40 | 9.67 | 9.88 | 9.95 | 10.02 | 9.98 | 9.89 |
| 24 | 9.62 | 9.37 | 9.35 | 9.22 | 9.18 | 9.43 | 9.69 | 9.89 | 9.95 | 10.02 | 9.98 | 9.88 |
| 25 | 9.62 | 9.38 | 9.35 | 9.22 | 9.20 | 9.44 | 9.70 | 9.90 | 9.95 | 10.02 | 9.98 | 9.89 |
| 26 | 9.62 | 9.39 | 9.35 | 9.21 | 9.20 | 9.45 | 9.71 | 9.91 | 9.95 | 10.02 | 9.97 | 9.89 |
| 27 | 9.61 | 9.39 | 9.34 | 9.20 | 9.20 | 9.46 | 9.71 | 9.91 | 9.95 | 10.01 | 9.97 | 9.88 |
| 28 | 9.61 | 9.39 | 9.33 | 9.19 | 9.21 | 9.46 | 9.72 | 9.91 | 9.96 | 10.01 | 9.97 | 9.88 |
| 29 | 9.60 | 9.39 | 9.32 | 9.18 | 9.21 | 9.46 | 9.73 | 9.92 | 9.96 | 10.00 | 9.97 | 9.88 |
| 30 | 9.60 | --- | 9.32 | 9.17 | 9.22 | 9.46 | 9.74 | 9.91 | 9.96 | 10.00 | 9.96 | 9.87 |
| 31 | 9.59 | --- | 9.31 | --- | 9.24 | --- | 9.74 | 9.93 | --- | 10.00 | --- | 9.87 |
| Max | 9.70 | 9.59 | 9.41 | 9.31 | 9.24 | 9.46 | 9.74 | 9.93 | 9.99 | 10.02 | 10.01 | 9.95 |
| Min | 9.59 | 9.36 | 9.31 | 9.17 | 9.15 | 9.23 | 9.48 | 9.76 | 9.93 | 9.95 | 9.96 | 9.87 |

Year 2016 Statistics: Year Max 10.02: Year Min 9.15;

Note: Water level in ft bgs.

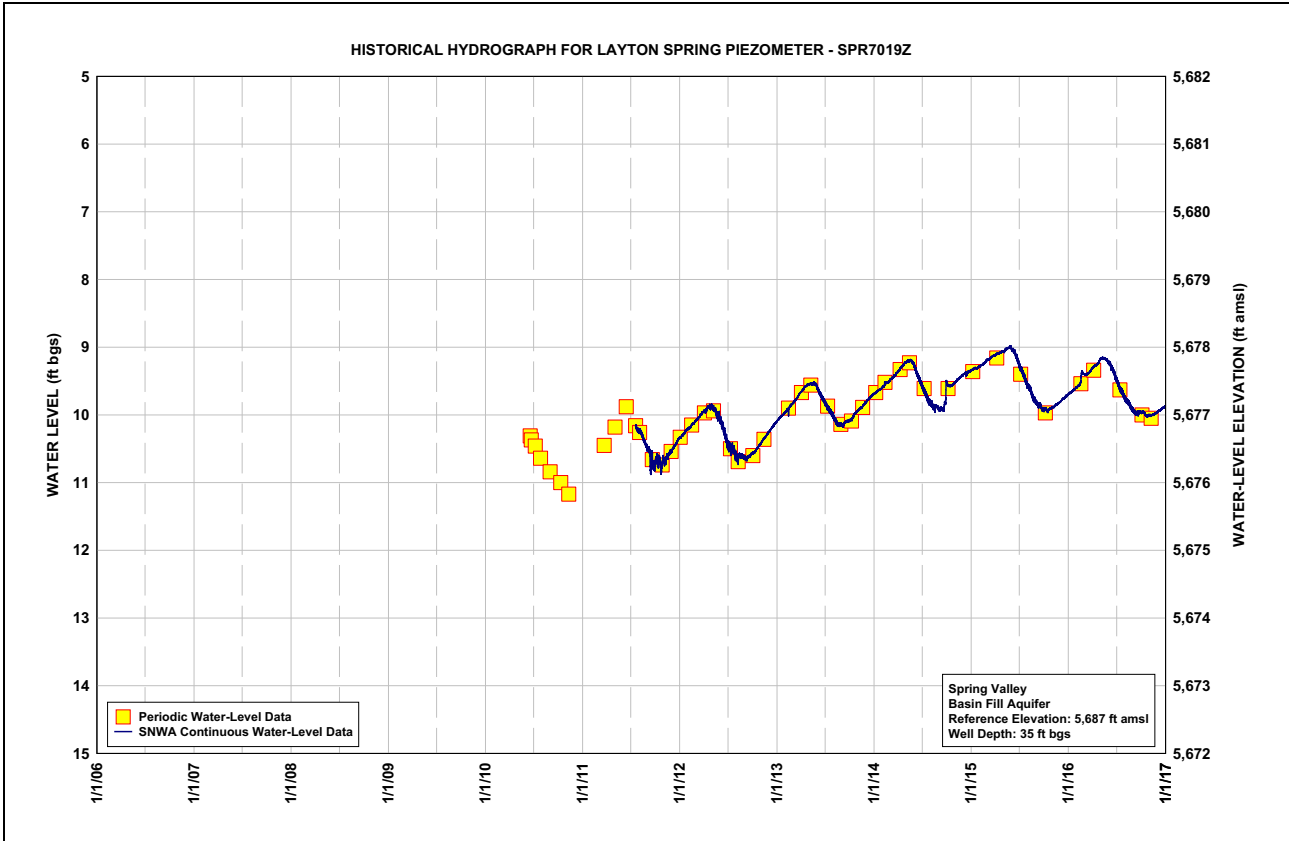
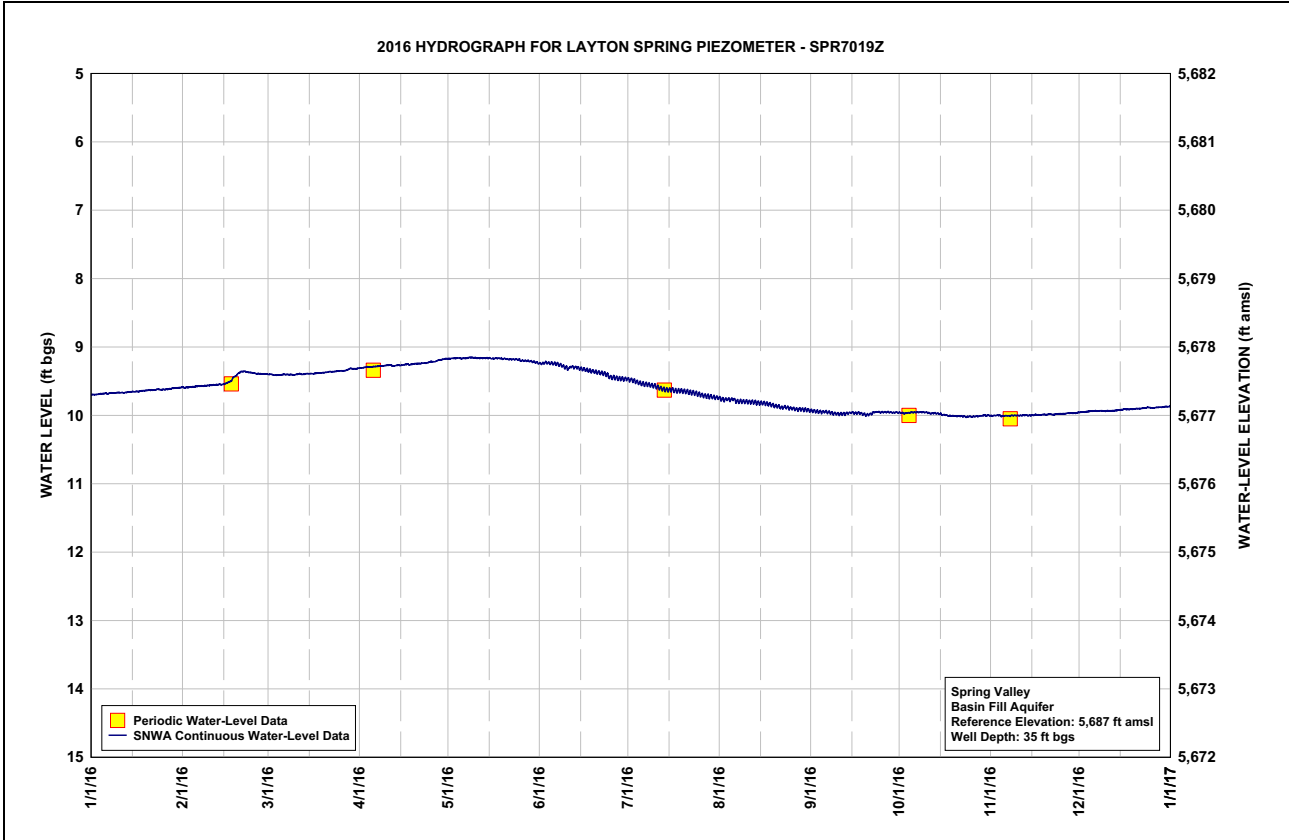




Table C-13
Stonehouse Spring Piezometer SPR7020Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|-------|------|------|------|------|------|------|------|------|------|------|
| 1 | 1.58 | 0.27 | 0.83 | 1.13 | 1.11 | 1.38 | 2.37 | 2.70 | 2.93 | 2.74 | 1.96 | 1.62 |
| 2 | 1.61 | 0.22 | 0.87 | 1.16 | 1.14 | 1.42 | 2.37 | 2.71 | 2.94 | 2.72 | 1.94 | 1.61 |
| 3 | 1.59 | 0.17 | 0.91 | 1.18 | 1.17 | 1.47 | 2.42 | 2.72 | 2.94 | 2.71 | 1.92 | 1.60 |
| 4 | 1.54 | 0.12 | 0.93 | 1.19 | 1.18 | 1.52 | 2.42 | 2.73 | 2.94 | 2.70 | 1.90 | 1.58 |
| 5 | 1.51 | 0.08 | 0.96 | 1.21 | 1.20 | 1.54 | 2.42 | 2.72 | 2.94 | 2.69 | 1.88 | 1.56 |
| 6 | 1.47 | 0.05 | 0.97 | 1.25 | 1.19 | 1.55 | 2.46 | 2.73 | 2.94 | 2.67 | 1.87 | 1.54 |
| 7 | 1.41 | 0.01 | 1.02 | 1.24 | 0.98 | 1.60 | 2.46 | 2.74 | 2.94 | 2.65 | 1.86 | 1.61 |
| 8 | 1.37 | -0.01 | 1.07 | 1.23 | 1.03 | 1.65 | 2.45 | 2.76 | 2.95 | 2.63 | 1.85 | 1.61 |
| 9 | 1.36 | -0.05 | 1.10 | 1.22 | 1.08 | 1.76 | 2.49 | 2.77 | 2.95 | 2.62 | 1.83 | 1.61 |
| 10 | 1.35 | -0.08 | 1.14 | 1.20 | 1.16 | 1.79 | 2.50 | 2.78 | 2.95 | 2.60 | 1.81 | 1.54 |
| 11 | 1.32 | -0.08 | 1.15 | 1.20 | 1.20 | 1.52 | 2.51 | 2.79 | 2.95 | 2.58 | 1.80 | 1.40 |
| 12 | 1.28 | -0.06 | 1.17 | 1.23 | 1.23 | 1.13 | 2.49 | 2.80 | 2.94 | 2.57 | 1.79 | 1.47 |
| 13 | 1.24 | -0.02 | 1.18 | 1.14 | 1.26 | 1.30 | 2.48 | 2.82 | 2.92 | 2.54 | 1.78 | 1.52 |
| 14 | 1.17 | -0.02 | 1.19 | 1.14 | 1.28 | 1.41 | 2.48 | 2.83 | 2.90 | 2.52 | 1.77 | 1.51 |
| 15 | 1.16 | 0.02 | 1.22 | 1.19 | 1.29 | 1.53 | 2.48 | 2.83 | 2.89 | 2.50 | 1.75 | 1.47 |
| 16 | 1.10 | 0.13 | 1.22 | 1.23 | 1.25 | 1.57 | 2.49 | 2.84 | 2.88 | 2.48 | 1.74 | 1.44 |
| 17 | 1.09 | 0.21 | 1.22 | 1.24 | 1.21 | 1.64 | 2.50 | 2.85 | 2.88 | 2.46 | 1.75 | 1.56 |
| 18 | 1.06 | 0.22 | 1.23 | 1.26 | 1.19 | 1.73 | 2.52 | 2.86 | 2.88 | 2.44 | 1.72 | 1.60 |
| 19 | 1.04 | 0.34 | 1.23 | 1.26 | 1.19 | 1.81 | 2.53 | 2.86 | 2.88 | 2.43 | 1.69 | 1.63 |
| 20 | 1.04 | 0.39 | 1.22 | 1.28 | 1.14 | 1.89 | 2.55 | 2.87 | 2.88 | 2.40 | 1.67 | 1.64 |
| 21 | 0.98 | 0.44 | 1.21 | 1.30 | 1.23 | 1.98 | 2.56 | 2.87 | 2.87 | 2.37 | 1.66 | 1.63 |
| 22 | 0.87 | 0.51 | 1.16 | 1.32 | 1.24 | 2.00 | 2.57 | 2.88 | 2.84 | 2.33 | 1.68 | 1.59 |
| 23 | 0.82 | 0.61 | 1.20 | 1.18 | 1.26 | 2.08 | 2.58 | 2.88 | 2.82 | 2.29 | 1.67 | 1.55 |
| 24 | 0.70 | 0.68 | 1.21 | 1.20 | 1.20 | 2.14 | 2.60 | 2.89 | 2.81 | 2.24 | 1.68 | 1.49 |
| 25 | 0.63 | 0.70 | 1.21 | 0.94 | 1.18 | 2.21 | 2.61 | 2.89 | 2.81 | 2.20 | 1.66 | 1.47 |
| 26 | 0.54 | 0.68 | 1.22 | 0.93 | 1.19 | 2.28 | 2.63 | 2.89 | 2.80 | 2.16 | 1.62 | 1.41 |
| 27 | 0.49 | 0.70 | 1.22 | 1.03 | 1.24 | 2.33 | 2.64 | 2.90 | 2.79 | 2.11 | 1.64 | 1.33 |
| 28 | 0.46 | 0.74 | 1.06 | 0.97 | 1.26 | 2.35 | 2.66 | 2.91 | 2.78 | 2.08 | 1.64 | 1.28 |
| 29 | 0.42 | 0.80 | 1.05 | 1.00 | 1.27 | 2.36 | 2.67 | 2.92 | 2.77 | 2.05 | 1.66 | 1.24 |
| 30 | 0.35 | --- | 1.04 | 1.05 | 1.28 | 2.37 | 2.68 | 2.92 | 2.75 | 2.01 | 1.64 | 1.19 |
| 31 | 0.29 | --- | 1.05 | --- | 1.33 | --- | 2.69 | 2.93 | --- | 1.98 | --- | 1.19 |
| Max | 1.61 | 0.80 | 1.23 | 1.32 | 1.33 | 2.37 | 2.69 | 2.93 | 2.95 | 2.74 | 1.96 | 1.64 |
| Min | 0.29 | -0.08 | 0.83 | 0.93 | 0.98 | 1.13 | 2.37 | 2.70 | 2.75 | 1.98 | 1.62 | 1.19 |

Year 2016 Statistics: Year Max 2.95; Year Min -0.08

Note: Water level in ft bgs.

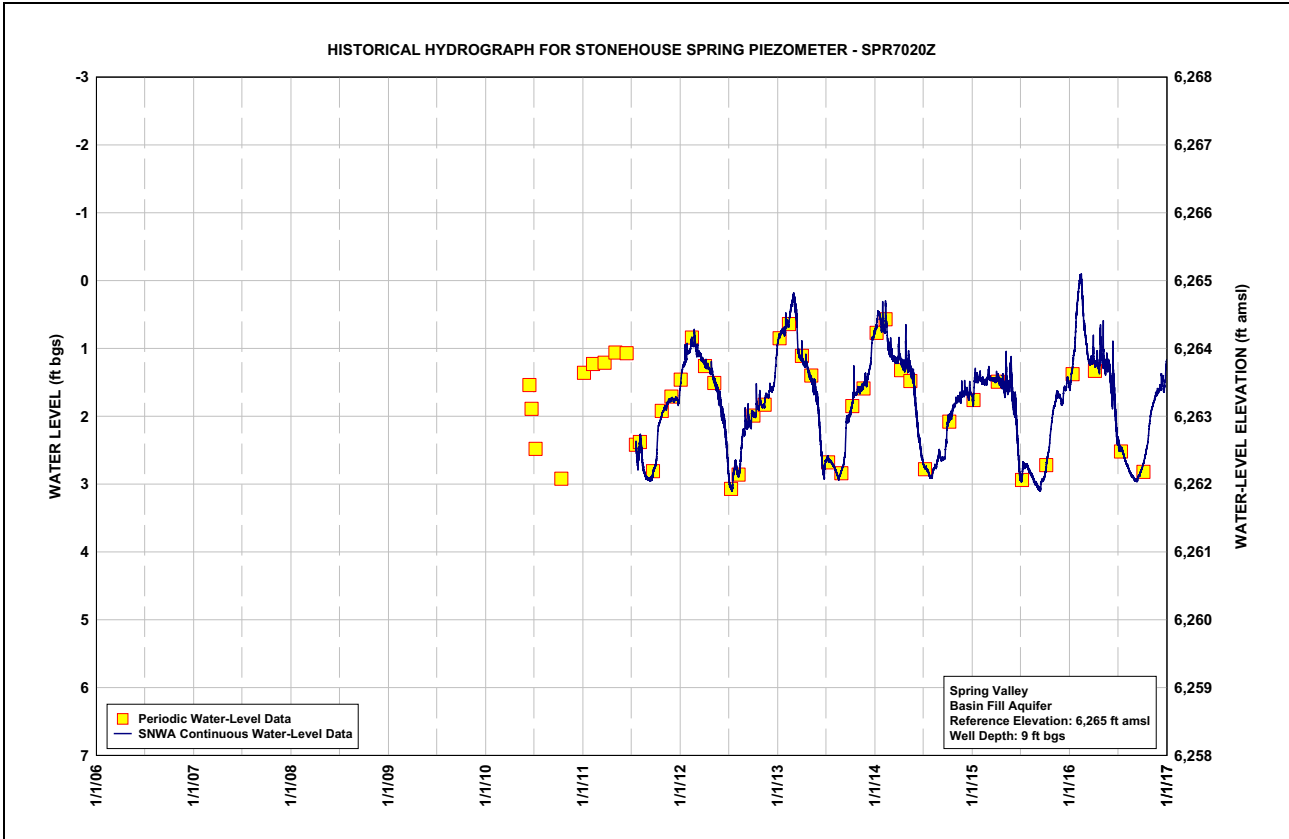
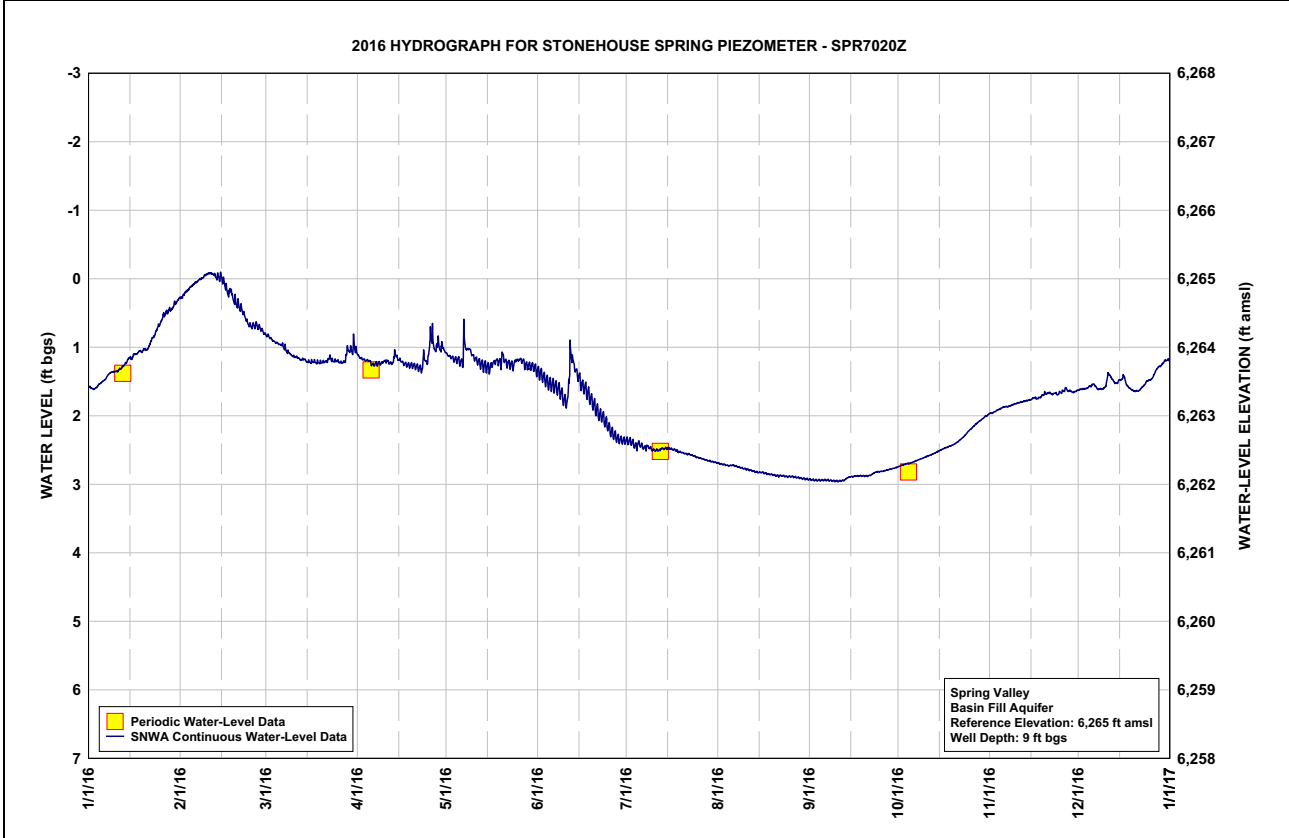


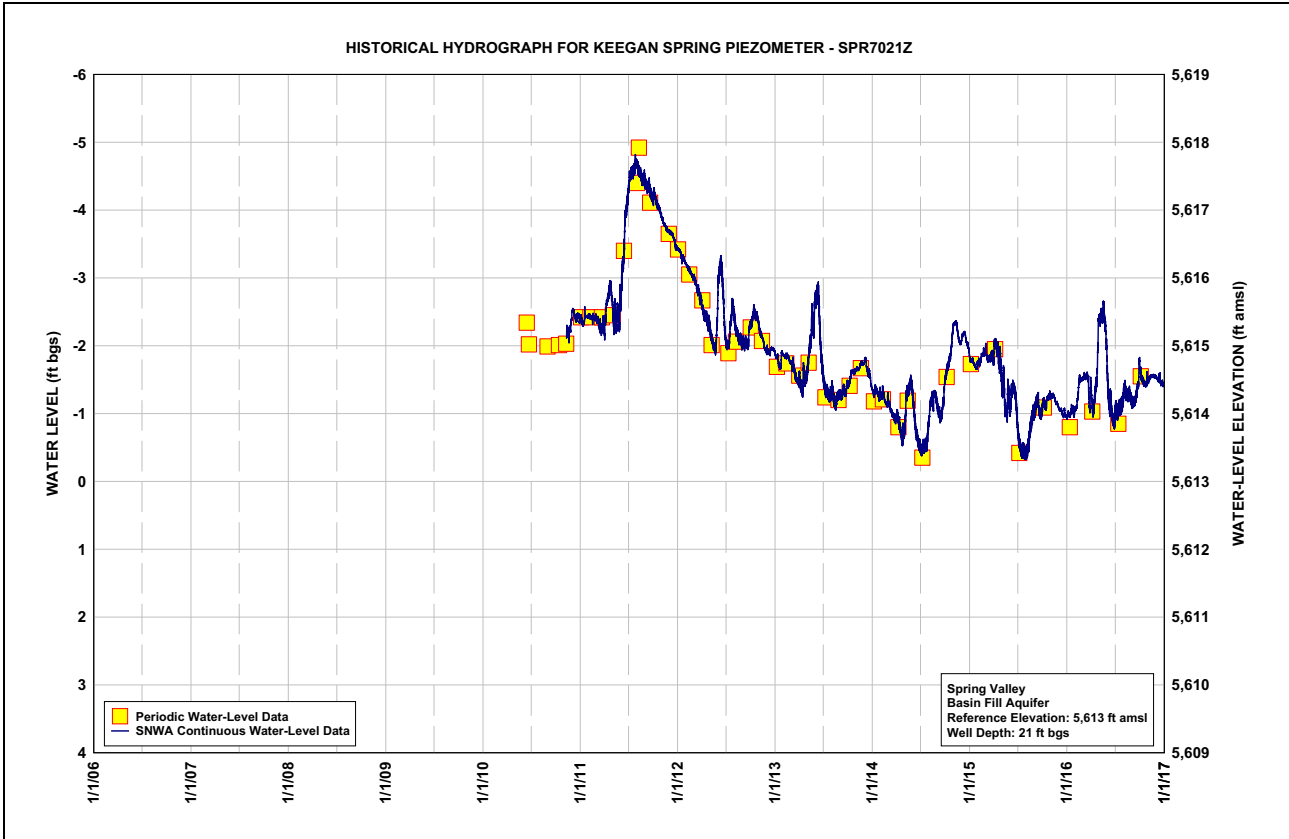
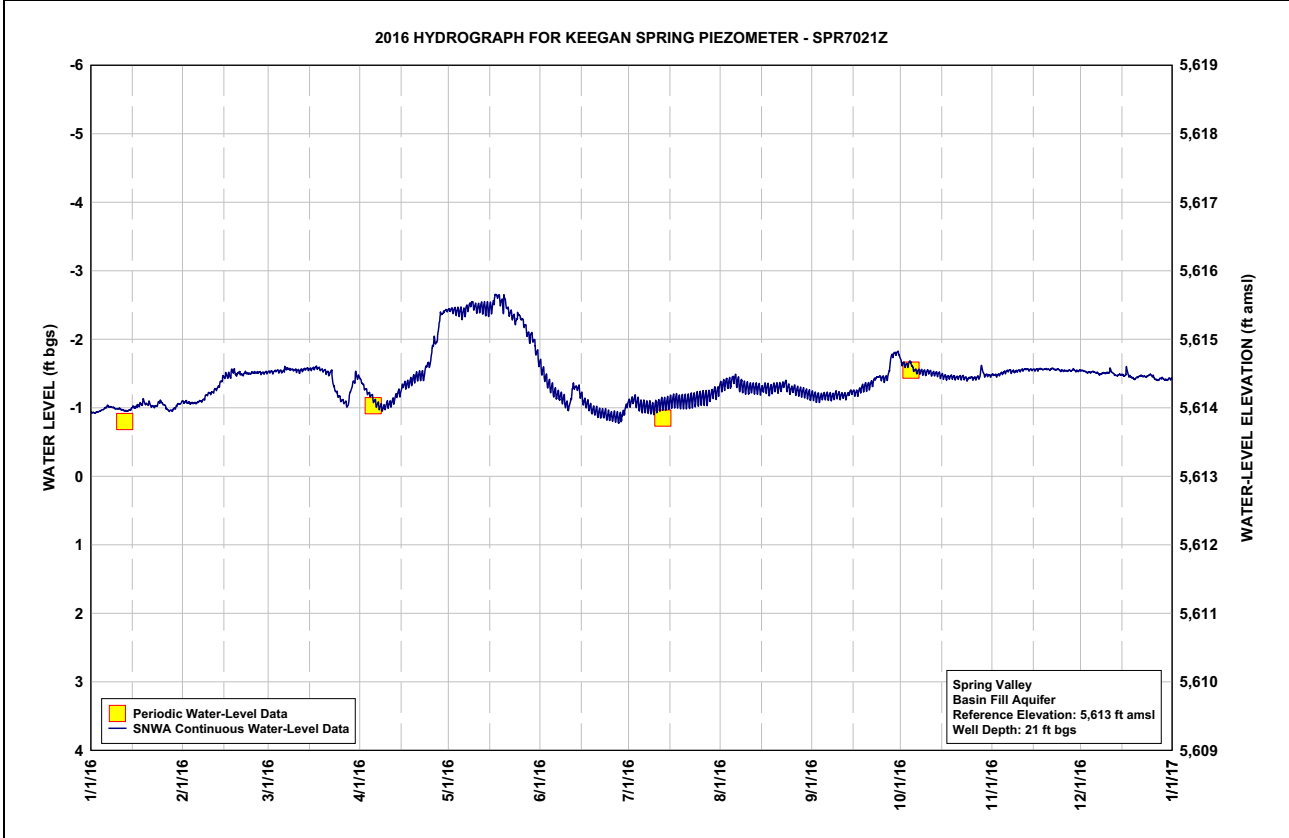


Table C-14
Keegan Spring Piezometer SPR7021Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | -0.93 | -1.09 | -1.53 | -1.40 | -2.44 | -1.56 | -1.08 | -1.34 | -1.18 | -1.66 | -1.48 | -1.54 |
| 2 | -0.92 | -1.08 | -1.53 | -1.29 | -2.43 | -1.45 | -1.11 | -1.37 | -1.16 | -1.63 | -1.48 | -1.53 |
| 3 | -0.94 | -1.07 | -1.53 | -1.22 | -2.42 | -1.36 | -1.10 | -1.37 | -1.15 | -1.64 | -1.49 | -1.52 |
| 4 | -0.96 | -1.07 | -1.54 | -1.18 | -2.41 | -1.30 | -1.05 | -1.38 | -1.17 | -1.66 | -1.51 | -1.52 |
| 5 | -0.98 | -1.07 | -1.53 | -1.12 | -2.38 | -1.24 | -1.03 | -1.44 | -1.18 | -1.55 | -1.53 | -1.52 |
| 6 | -1.02 | -1.08 | -1.55 | -1.05 | -2.41 | -1.20 | -1.03 | -1.41 | -1.18 | -1.54 | -1.55 | -1.51 |
| 7 | -1.02 | -1.10 | -1.57 | -1.02 | -2.47 | -1.17 | -1.03 | -1.34 | -1.17 | -1.54 | -1.53 | -1.49 |
| 8 | -1.00 | -1.13 | -1.56 | -1.00 | -2.52 | -1.14 | -1.01 | -1.32 | -1.19 | -1.53 | -1.53 | -1.50 |
| 9 | -0.99 | -1.19 | -1.56 | -1.01 | -2.49 | -1.07 | -1.01 | -1.30 | -1.20 | -1.52 | -1.54 | -1.51 |
| 10 | -0.99 | -1.22 | -1.55 | -1.05 | -2.46 | -1.02 | -1.03 | -1.30 | -1.19 | -1.53 | -1.55 | -1.51 |
| 11 | -0.97 | -1.23 | -1.54 | -1.07 | -2.48 | -1.12 | -1.07 | -1.30 | -1.19 | -1.51 | -1.56 | -1.52 |
| 12 | -0.96 | -1.28 | -1.56 | -1.11 | -2.48 | -1.30 | -1.07 | -1.30 | -1.18 | -1.50 | -1.56 | -1.48 |
| 13 | -0.96 | -1.32 | -1.56 | -1.18 | -2.46 | -1.30 | -1.08 | -1.29 | -1.21 | -1.50 | -1.56 | -1.47 |
| 14 | -0.97 | -1.39 | -1.57 | -1.23 | -2.45 | -1.21 | -1.09 | -1.27 | -1.23 | -1.47 | -1.56 | -1.48 |
| 15 | -1.01 | -1.46 | -1.57 | -1.31 | -2.47 | -1.10 | -1.11 | -1.28 | -1.23 | -1.46 | -1.56 | -1.48 |
| 16 | -1.02 | -1.47 | -1.58 | -1.34 | -2.56 | -1.06 | -1.13 | -1.30 | -1.23 | -1.45 | -1.56 | -1.53 |
| 17 | -1.04 | -1.51 | -1.59 | -1.36 | -2.64 | -1.03 | -1.12 | -1.27 | -1.27 | -1.46 | -1.57 | -1.47 |
| 18 | -1.05 | -1.52 | -1.56 | -1.40 | -2.56 | -0.97 | -1.10 | -1.29 | -1.31 | -1.45 | -1.56 | -1.44 |
| 19 | -1.06 | -1.49 | -1.55 | -1.44 | -2.58 | -0.96 | -1.11 | -1.31 | -1.33 | -1.44 | -1.56 | -1.42 |
| 20 | -1.05 | -1.50 | -1.53 | -1.47 | -2.49 | -0.93 | -1.10 | -1.30 | -1.34 | -1.45 | -1.56 | -1.45 |
| 21 | -1.03 | -1.48 | -1.51 | -1.48 | -2.39 | -0.93 | -1.12 | -1.32 | -1.37 | -1.45 | -1.57 | -1.47 |
| 22 | -1.02 | -1.51 | -1.52 | -1.47 | -2.34 | -0.92 | -1.14 | -1.34 | -1.43 | -1.44 | -1.56 | -1.46 |
| 23 | -1.03 | -1.50 | -1.28 | -1.61 | -2.28 | -0.89 | -1.14 | -1.31 | -1.45 | -1.42 | -1.56 | -1.46 |
| 24 | -1.08 | -1.51 | -1.19 | -1.65 | -2.35 | -0.89 | -1.15 | -1.27 | -1.44 | -1.44 | -1.55 | -1.48 |
| 25 | -1.05 | -1.51 | -1.12 | -1.88 | -2.30 | -0.87 | -1.17 | -1.28 | -1.43 | -1.43 | -1.54 | -1.46 |
| 26 | -0.98 | -1.51 | -1.09 | -1.95 | -2.21 | -0.87 | -1.17 | -1.26 | -1.45 | -1.44 | -1.54 | -1.41 |
| 27 | -0.96 | -1.51 | -1.04 | -2.10 | -2.10 | -0.86 | -1.17 | -1.25 | -1.63 | -1.45 | -1.54 | -1.40 |
| 28 | -0.96 | -1.51 | -1.16 | -2.37 | -2.06 | -0.89 | -1.19 | -1.24 | -1.77 | -1.56 | -1.55 | -1.43 |
| 29 | -1.00 | -1.52 | -1.31 | -2.40 | -2.03 | -0.95 | -1.23 | -1.22 | -1.80 | -1.48 | -1.54 | -1.41 |
| 30 | -1.05 | --- | -1.44 | -2.42 | -1.83 | -1.05 | -1.23 | -1.21 | -1.78 | -1.48 | -1.54 | -1.41 |
| 31 | -1.06 | --- | -1.45 | --- | -1.68 | --- | -1.29 | -1.19 | --- | -1.47 | --- | -1.43 |
| Max | -0.92 | -1.07 | -1.04 | -1.00 | -1.68 | -0.86 | -1.01 | -1.19 | -1.15 | -1.42 | -1.48 | -1.40 |
| Min | -1.08 | -1.52 | -1.59 | -2.42 | -2.64 | -1.56 | -1.29 | -1.44 | -1.80 | -1.66 | -1.57 | -1.54 |

Year 2016 Statistics: Year Max -0.86; Year Min -2.64.

Note: Water level in ft bgs.



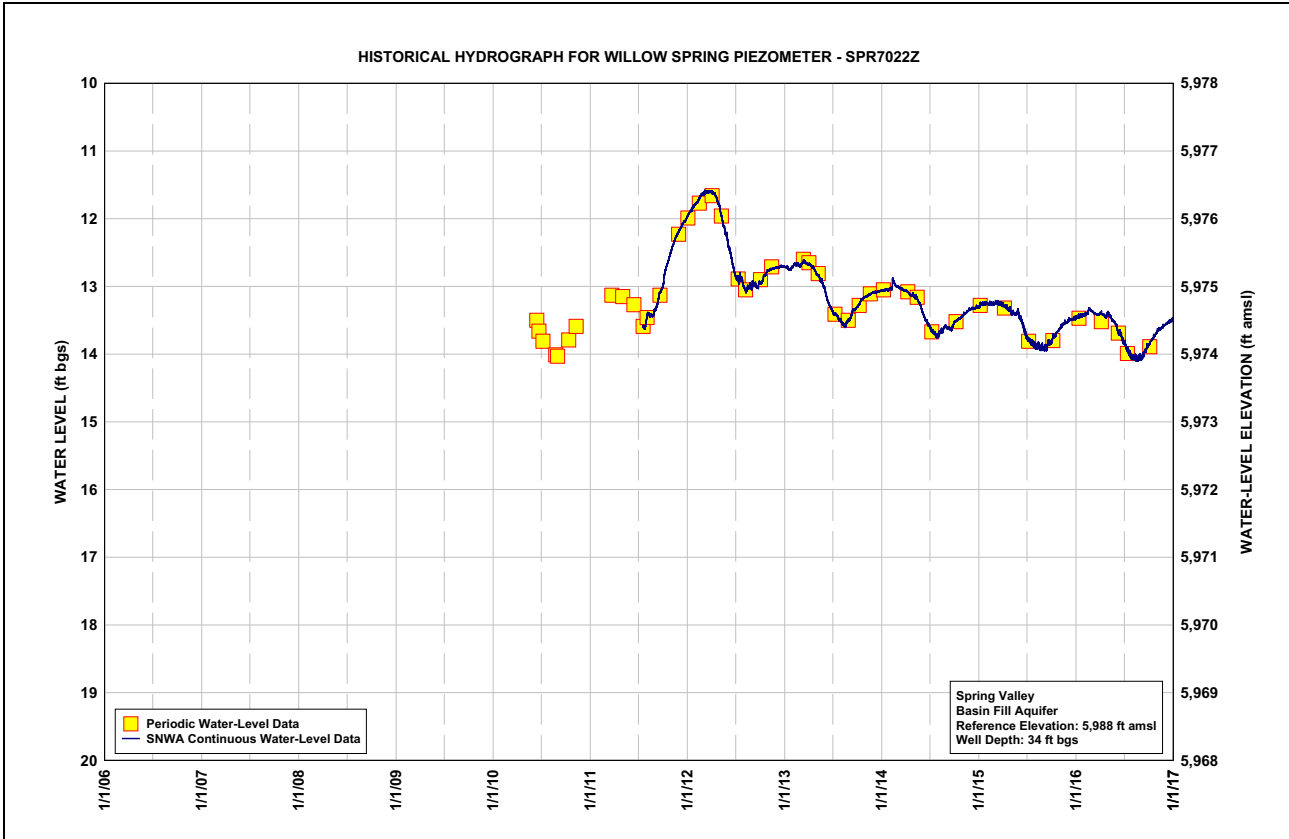
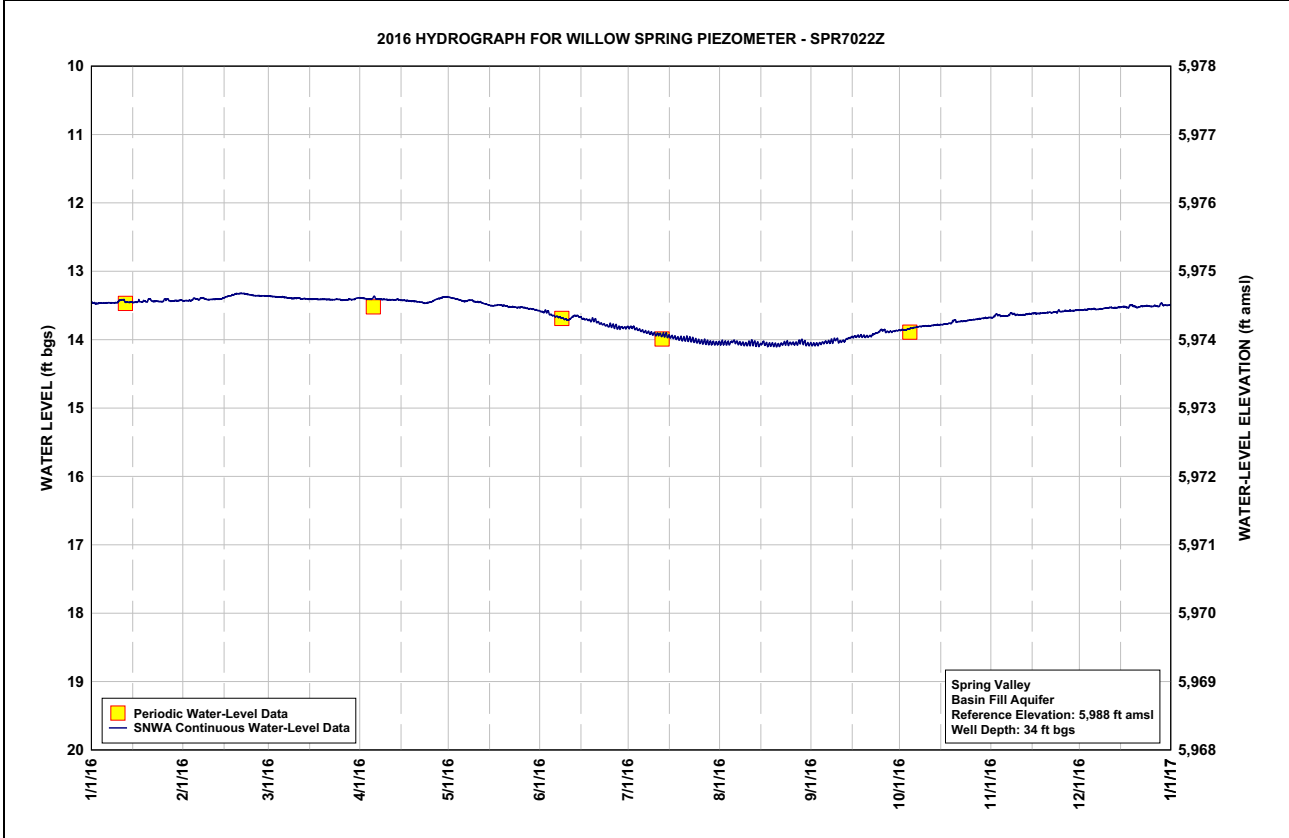


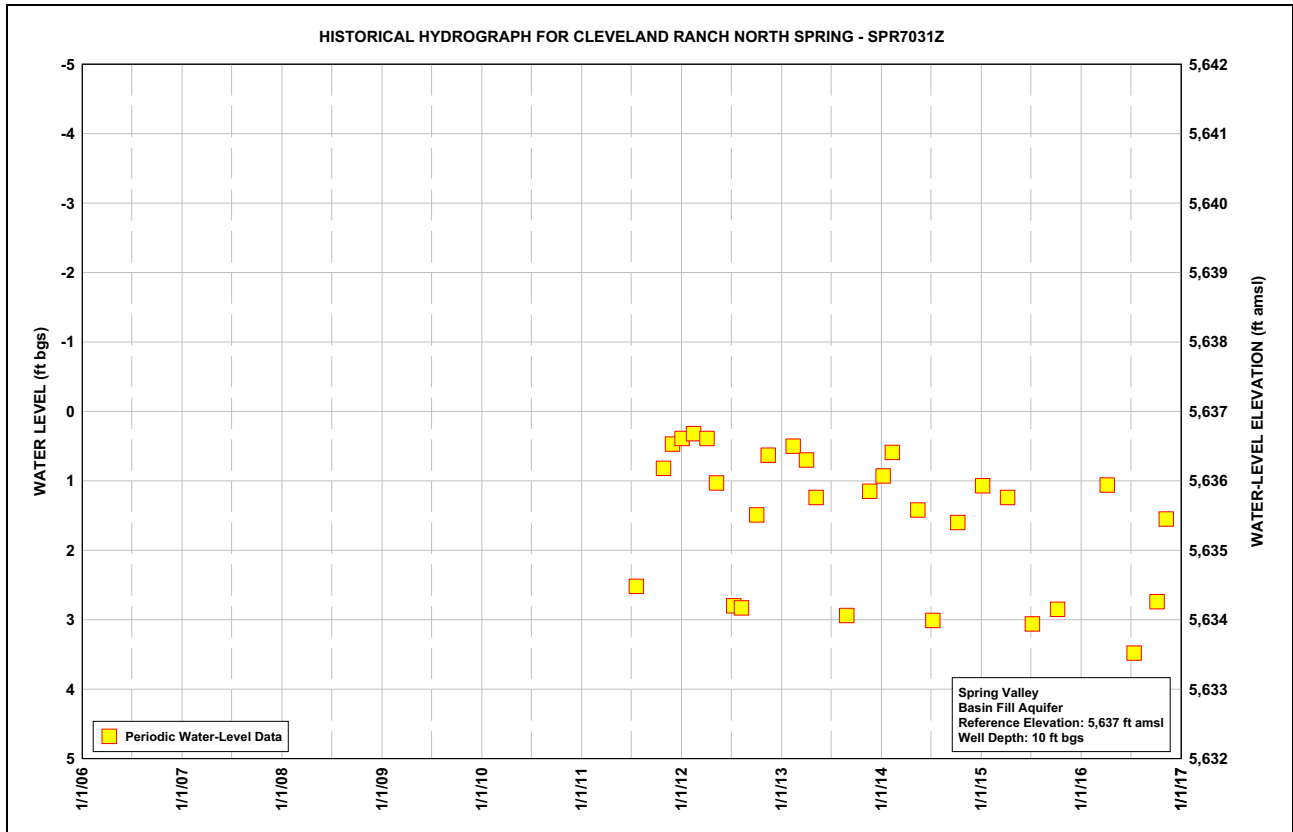
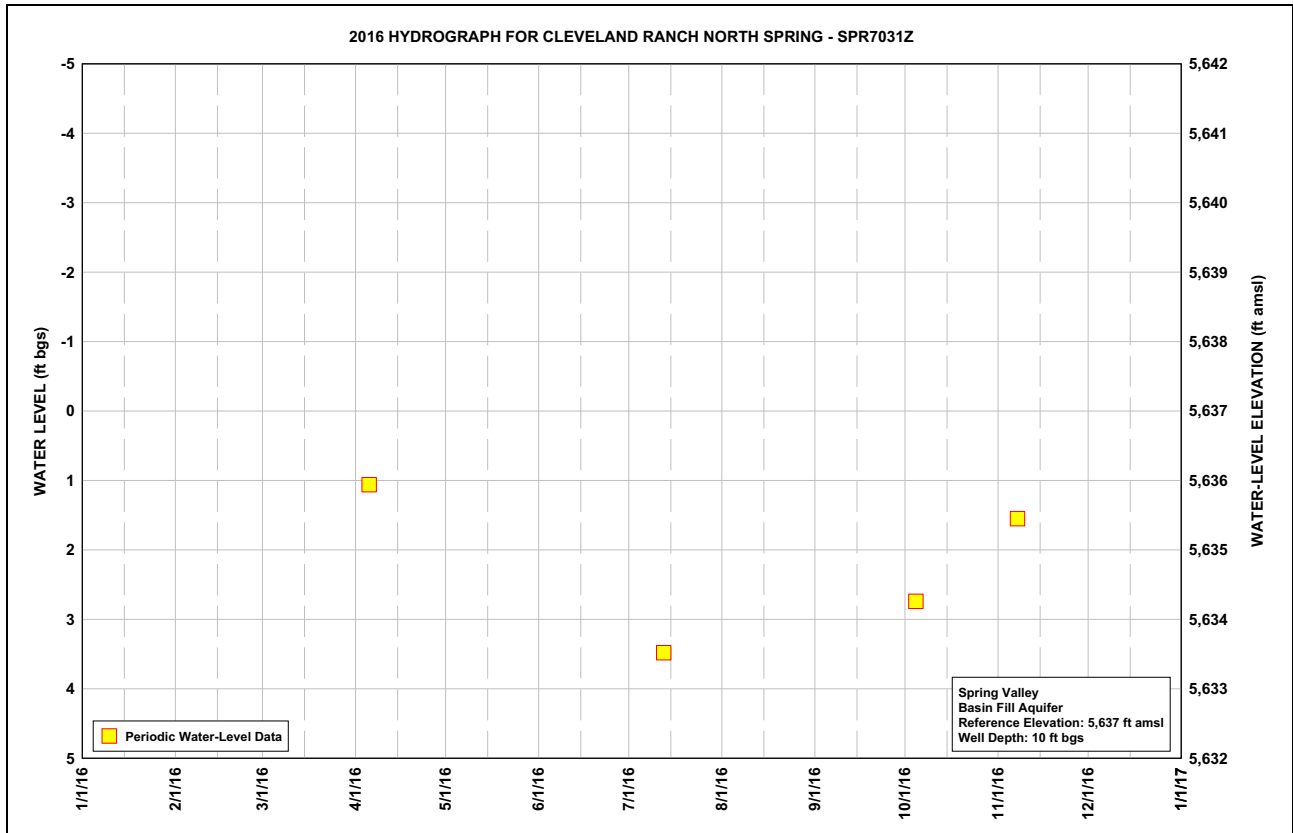
**Table C-15
Willow Spring Piezometer SPR7022Z, Calendar Year 2016
Water-Level Data, Daily-Mean Values**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 13.46 | 13.43 | 13.36 | 13.39 | 13.38 | 13.59 | 13.82 | 14.04 | 14.07 | 13.86 | 13.68 | 13.57 |
| 2 | 13.47 | 13.43 | 13.37 | 13.40 | 13.39 | 13.60 | 13.82 | 14.05 | 14.07 | 13.86 | 13.63 | 13.56 |
| 3 | 13.47 | 13.43 | 13.37 | 13.40 | 13.40 | 13.59 | 13.84 | 14.05 | 14.07 | 13.85 | 13.64 | 13.56 |
| 4 | 13.46 | 13.41 | 13.38 | 13.41 | 13.42 | 13.63 | 13.86 | 14.05 | 14.05 | 13.84 | 13.65 | 13.55 |
| 5 | 13.46 | 13.41 | 13.38 | 13.39 | 13.43 | 13.65 | 13.87 | 14.03 | 14.04 | 13.83 | 13.65 | 13.55 |
| 6 | 13.46 | 13.41 | 13.38 | 13.40 | 13.44 | 13.66 | 13.88 | 14.03 | 14.04 | 13.82 | 13.65 | 13.56 |
| 7 | 13.46 | 13.39 | 13.39 | 13.41 | 13.43 | 13.67 | 13.89 | 14.05 | 14.03 | 13.81 | 13.62 | 13.56 |
| 8 | 13.46 | 13.41 | 13.39 | 13.41 | 13.43 | 13.68 | 13.90 | 14.06 | 14.02 | 13.81 | 13.62 | 13.55 |
| 9 | 13.46 | 13.41 | 13.40 | 13.41 | 13.44 | 13.70 | 13.91 | 14.07 | 14.00 | 13.80 | 13.63 | 13.54 |
| 10 | 13.43 | 13.41 | 13.39 | 13.42 | 13.45 | 13.71 | 13.92 | 14.06 | 14.02 | 13.80 | 13.64 | 13.54 |
| 11 | 13.42 | 13.41 | 13.39 | 13.42 | 13.45 | 13.70 | 13.92 | 14.04 | 14.02 | 13.80 | 13.64 | 13.53 |
| 12 | 13.45 | 13.41 | 13.40 | 13.42 | 13.46 | 13.66 | 13.94 | 14.04 | 14.01 | 13.79 | 13.63 | 13.54 |
| 13 | 13.45 | 13.41 | 13.40 | 13.41 | 13.48 | 13.65 | 13.93 | 14.06 | 13.98 | 13.78 | 13.63 | 13.53 |
| 14 | 13.45 | 13.39 | 13.41 | 13.42 | 13.49 | 13.67 | 13.95 | 14.07 | 13.97 | 13.78 | 13.62 | 13.53 |
| 15 | 13.45 | 13.38 | 13.41 | 13.43 | 13.50 | 13.69 | 13.96 | 14.06 | 13.96 | 13.78 | 13.61 | 13.52 |
| 16 | 13.45 | 13.36 | 13.41 | 13.43 | 13.50 | 13.70 | 13.97 | 14.06 | 13.95 | 13.77 | 13.62 | 13.52 |
| 17 | 13.44 | 13.36 | 13.41 | 13.43 | 13.50 | 13.71 | 13.98 | 14.07 | 13.95 | 13.77 | 13.62 | 13.53 |
| 18 | 13.44 | 13.34 | 13.41 | 13.44 | 13.49 | 13.72 | 13.99 | 14.07 | 13.95 | 13.76 | 13.61 | 13.50 |
| 19 | 13.44 | 13.33 | 13.41 | 13.44 | 13.50 | 13.71 | 13.99 | 14.08 | 13.96 | 13.71 | 13.61 | 13.51 |
| 20 | 13.41 | 13.33 | 13.41 | 13.45 | 13.51 | 13.74 | 13.99 | 14.08 | 13.95 | 13.74 | 13.60 | 13.53 |
| 21 | 13.43 | 13.33 | 13.41 | 13.45 | 13.52 | 13.76 | 13.99 | 14.08 | 13.94 | 13.73 | 13.61 | 13.52 |
| 22 | 13.44 | 13.33 | 13.42 | 13.46 | 13.52 | 13.78 | 14.00 | 14.06 | 13.91 | 13.73 | 13.60 | 13.51 |
| 23 | 13.44 | 13.34 | 13.41 | 13.46 | 13.52 | 13.79 | 14.01 | 14.04 | 13.90 | 13.73 | 13.59 | 13.51 |
| 24 | 13.44 | 13.35 | 13.41 | 13.46 | 13.53 | 13.80 | 14.02 | 14.06 | 13.86 | 13.72 | 13.59 | 13.51 |
| 25 | 13.44 | 13.36 | 13.41 | 13.45 | 13.53 | 13.79 | 14.03 | 14.05 | 13.86 | 13.71 | 13.59 | 13.51 |
| 26 | 13.41 | 13.36 | 13.42 | 13.42 | 13.53 | 13.80 | 14.03 | 14.06 | 13.88 | 13.71 | 13.58 | 13.51 |
| 27 | 13.43 | 13.36 | 13.42 | 13.40 | 13.54 | 13.82 | 14.04 | 14.05 | 13.88 | 13.70 | 13.58 | 13.51 |
| 28 | 13.44 | 13.36 | 13.41 | 13.39 | 13.55 | 13.82 | 14.05 | 14.02 | 13.88 | 13.69 | 13.58 | 13.47 |
| 29 | 13.43 | 13.36 | 13.41 | 13.38 | 13.55 | 13.82 | 14.05 | 14.03 | 13.88 | 13.69 | 13.57 | 13.50 |
| 30 | 13.43 | --- | 13.40 | 13.37 | 13.56 | 13.82 | 14.05 | 14.06 | 13.87 | 13.68 | 13.57 | 13.50 |
| 31 | 13.43 | --- | 13.39 | --- | 13.57 | --- | 14.05 | 14.07 | --- | 13.68 | --- | 13.49 |
| Max | 13.47 | 13.43 | 13.42 | 13.46 | 13.57 | 13.82 | 14.05 | 14.08 | 14.07 | 13.86 | 13.68 | 13.57 |
| Min | 13.41 | 13.33 | 13.36 | 13.37 | 13.38 | 13.59 | 13.82 | 14.02 | 13.86 | 13.68 | 13.57 | 13.47 |

Year 2016 Statistics: Year Max 14.08; Year Min 13.33

Note: Water level in ft bgs.



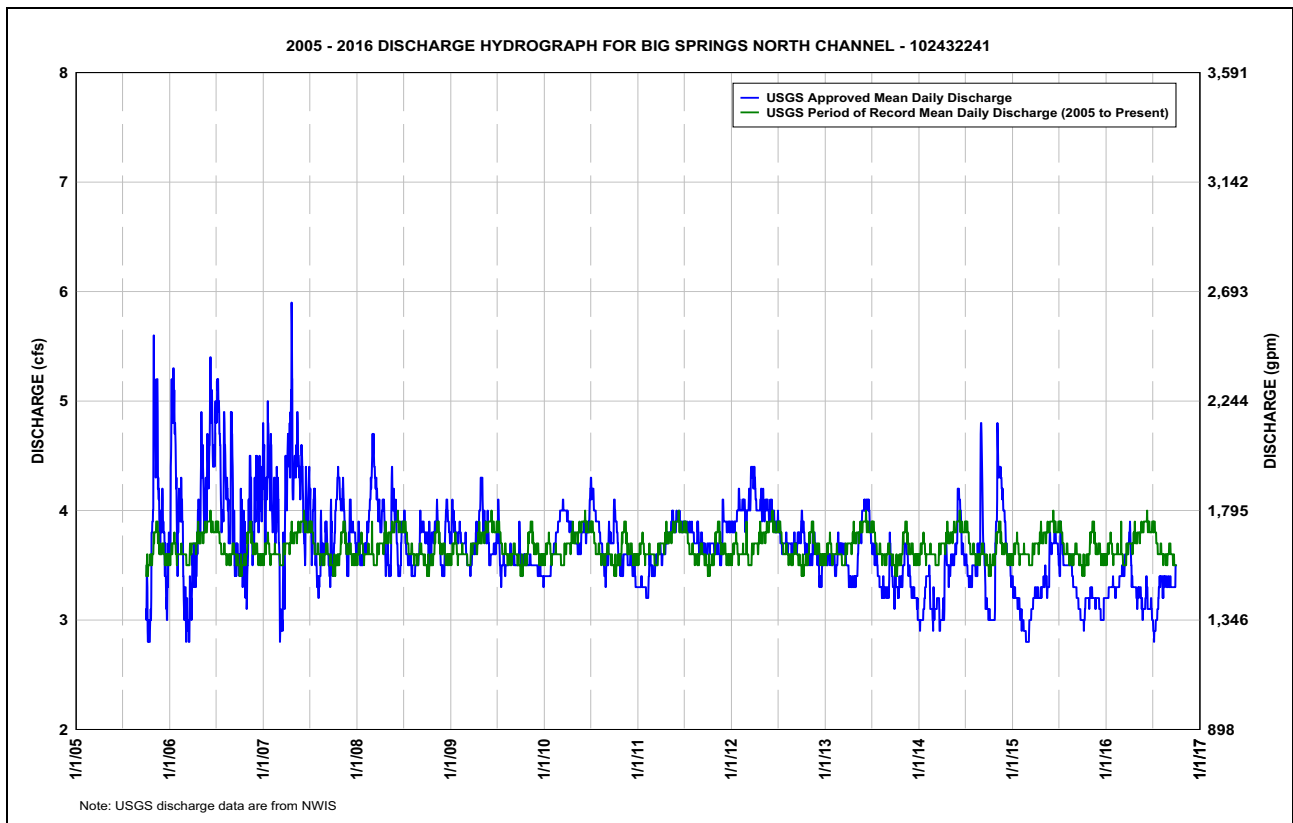
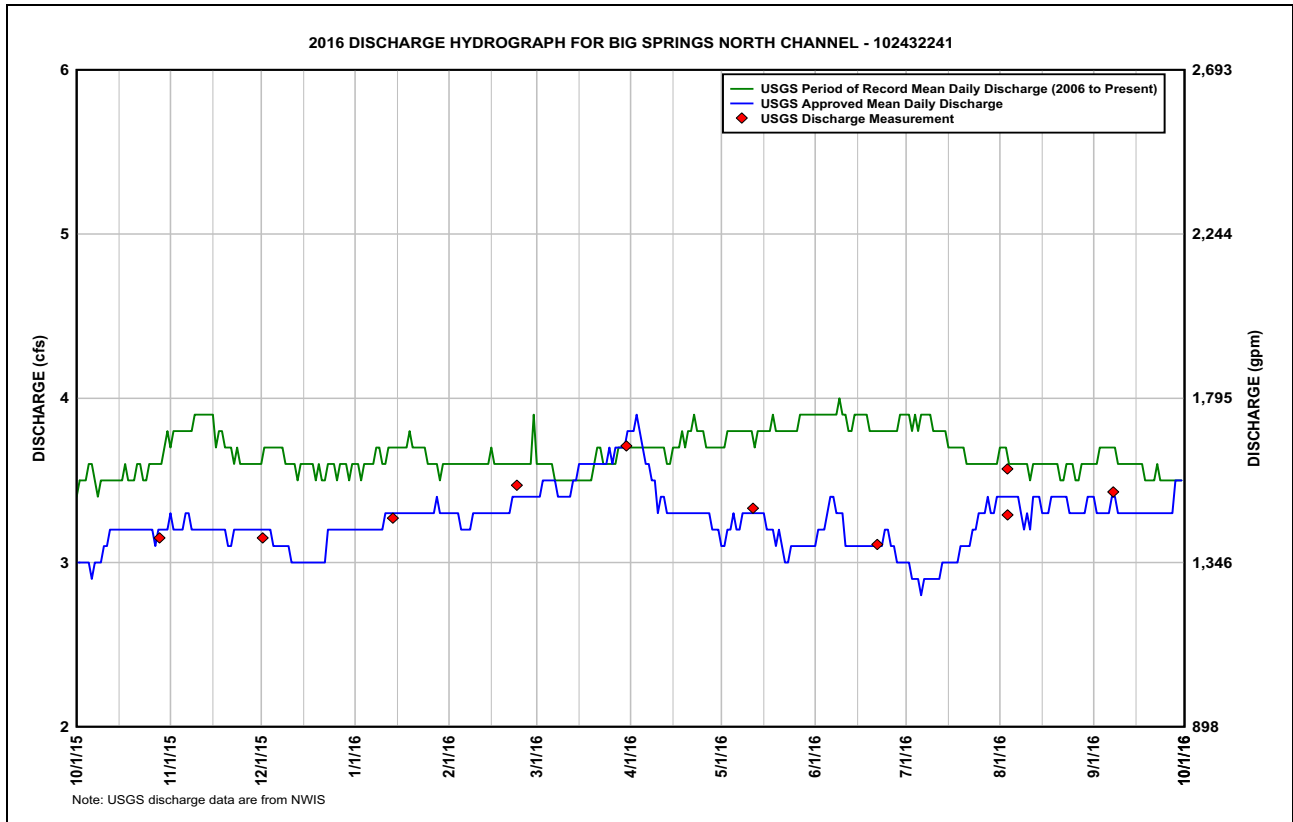


Appendix D

SNWA and USGS Discharge Measurements and Hydrographs for Big Springs Creek and Cleve Creek

**Table D-1
USGS Discharge Measurements at Big Springs Creek near Baker, Nevada**

| SNWA Station Number | USGS Station Number | Station Name | Date | Time | Discharge (cfs) | Measurement Rated as: | Method | Data Source |
|---------------------|---------------------|---------------------------------|------------|-------|-----------------|-----------------------|----------|-------------|
| 1951904 | 102432241 | Big Springs Creek North Channel | 10/28/2015 | 9:30 | 3.15 | Fair | Reported | USGS-NWIS |
| | | | 12/01/2015 | 11:24 | 3.15 | Poor | Reported | USGS-NWIS |
| | | | 1/13/2016 | 10:52 | 3.27 | Poor | Reported | USGS-NWIS |
| | | | 2/23/2016 | 10:45 | 3.47 | Poor | Reported | USGS-NWIS |
| | | | 3/30/2016 | 15:00 | 3.71 | Poor | Reported | USGS-NWIS |
| | | | 5/11/2016 | 10:13 | 3.33 | Poor | Reported | USGS-NWIS |
| | | | 6/21/2016 | 11:27 | 3.11 | Poor | Reported | USGS-NWIS |
| | | | 8/3/2016 | 12:12 | 3.57 | Poor | Reported | USGS-NWIS |
| | | | 8/3/2016 | 13:00 | 3.29 | Poor | Reported | USGS-NWIS |
| | | | 9/7/2016 | 10:55 | 3.43 | Poor | Reported | USGS-NWIS |
| 1951903 | 10243224 | Big Springs Creek South Channel | 10/28/2015 | 9:39 | 5.11 | Fair | Reported | USGS-NWIS |
| | | | 12/1/2015 | 10:12 | 5.25 | Fair | Reported | USGS-NWIS |
| | | | 1/13/2016 | 9:27 | 4.98 | Fair | Reported | USGS-NWIS |
| | | | 2/23/2016 | 9:34 | 5.14 | Fair | Reported | USGS-NWIS |
| | | | 3/30/2016 | 14:05 | 5.29 | Poor | Reported | USGS-NWIS |
| | | | 5/11/2016 | 8:59 | 4.97 | Poor | Reported | USGS-NWIS |
| | | | 6/21/2016 | 9:33 | 5.38 | Poor | Reported | USGS-NWIS |
| | | | 6/21/2016 | 10:20 | 5.23 | Poor | Reported | USGS-NWIS |
| | | | 8/3/2016 | 10:07 | 4.83 | Poor | Reported | USGS-NWIS |
| | | | 8/3/2016 | 10:51 | 4.93 | Poor | Reported | USGS-NWIS |
| | | | 9/7/2016 | 09:44 | 5.03 | Poor | Reported | USGS-NWIS |



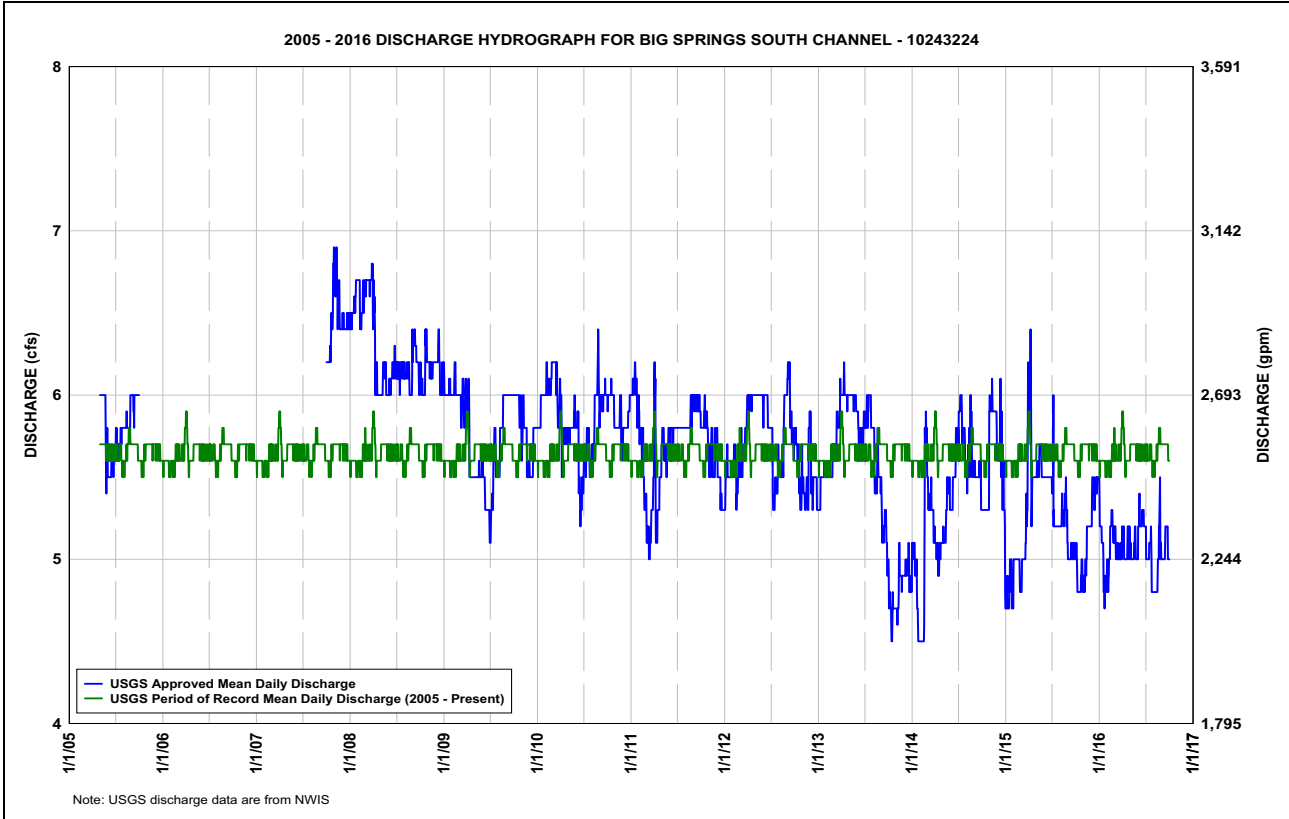
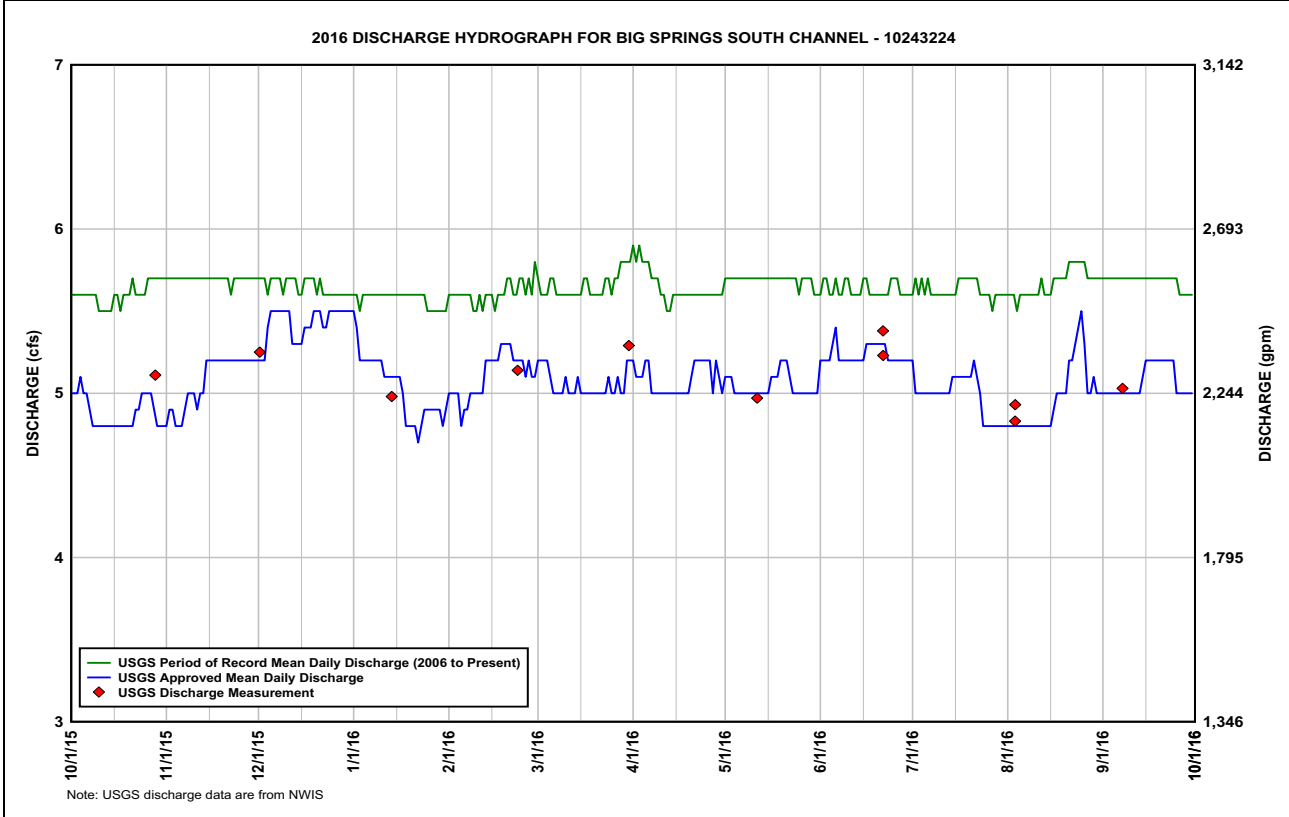
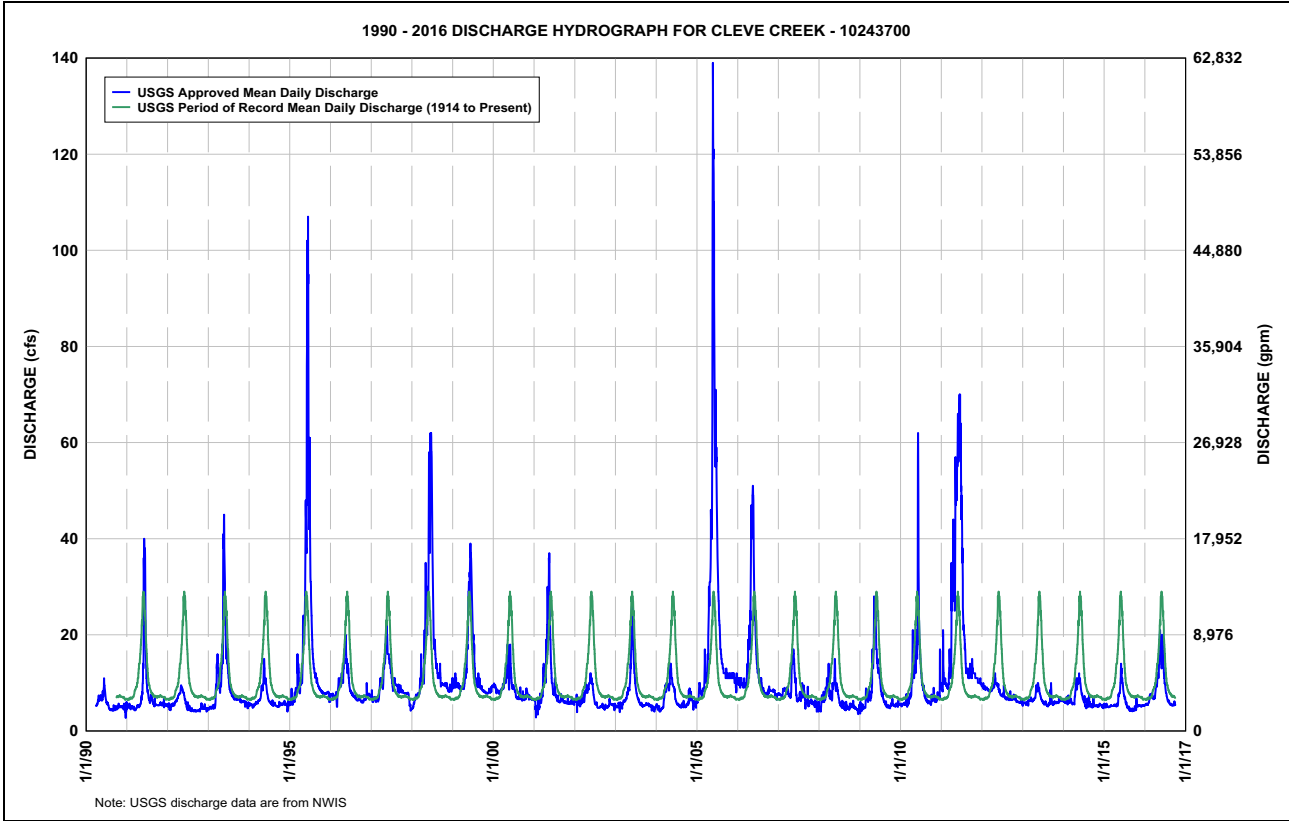
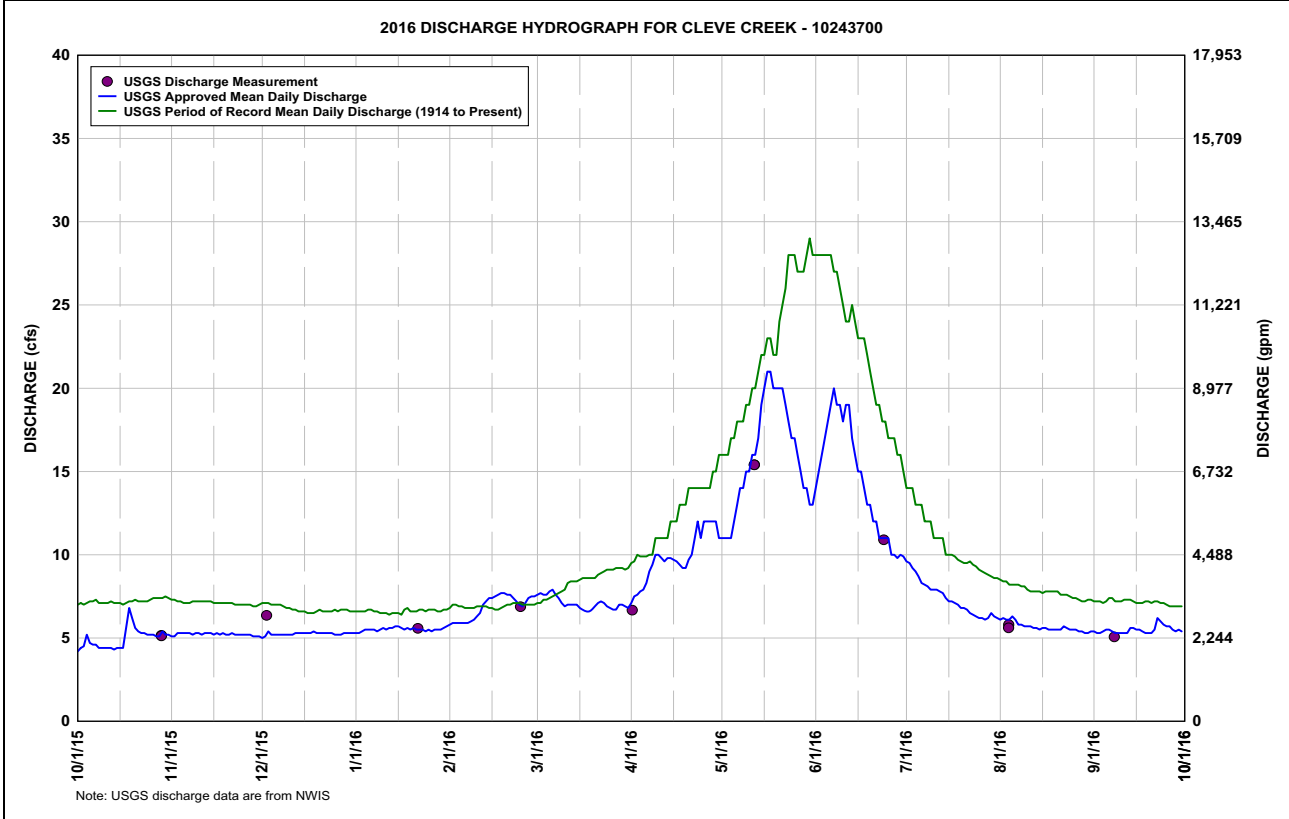




Table D-2
10243700 - Cleve Creek near Ely, Nevada (Discharge Measurements)

| SNWA Station Number | USGS Station Number | Station Name | Date | Time | Discharge (cfs) | Measurement Rated as: | Method | Data Source |
|---------------------|---------------------|--------------------------|------------|----------|-----------------|-----------------------|----------|-------------|
| 1841611 | 10243700 | Cleve Creek near Ely, NV | 10/28/2015 | 15:22 | 5.13 | Fair | Reported | USGS-NWIS |
| | | | 10/28/2015 | 16:08 | 5.16 | Fair | Reported | USGS-NWIS |
| | | | 12/2/2015 | 10:59 | 6.36 | Fair | Reported | USGS-NWIS |
| | | | 1/21/2016 | 10:37 | 5.58 | Fair | Reported | USGS-NWIS |
| | | | 2/24/2016 | 9:01 | 6.88 | Fair | Reported | USGS-NWIS |
| | | | 4/1/2016 | 8:22 | 6.67 | Poor | Reported | USGS-NWIS |
| | | | 5/11/2016 | 16:10 | 15.4 | Fair | Reported | USGS-NWIS |
| | | | 5/11/2016 | 16:54 | 15.4 | Fair | Reported | USGS-NWIS |
| | | | 6/23/2016 | 11:52 | 10.9 | Poor | Reported | USGS-NWIS |
| | | | 8/3/2016 | 18:38 | 5.61 | Poor | Reported | USGS-MWIS |
| | | | 8/3/2016 | 19:27 | 5.80 | Poor | Reported | USGS-NWIS |
| 9/7/2016 | 16:49 | 5.07 | Poor | Reported | USGS-NWIS | | | |





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Appendix E
Precipitation-Station Data

Table E-1
2016 Precipitation Data
 (Page 1 of 6)

| Lages, NV (RP1790201) | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.78 | 0.27 | 1.69 | 2.57 | 1.17 | 1.33 | 0.03 | 0.15 | 1.55 | 0.46 | 0.38 | 0.67 | 11.05 |
| Period of Record Statistics (1984 to Present) | | | | | | | | | | | | | |
| Mean | 0.61 | 0.58 | 0.76 | 0.98 | 0.96 | 0.63 | 0.69 | 0.53 | 0.67 | 0.93 | 0.50 | 0.51 | 8.47 |
| Min | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 4.1 |
| Max | 2.34 | 2.01 | 2.74 | 2.76 | 2.89 | 3.05 | 2.24 | 3.05 | 2.19 | 3.89 | 1.75 | 2.44 | 13.2 |
| No. Yrs. | 32 | 33 | 32 | 33 | 33 | 32 | 32 | 32 | 32 | 33 | 32 | 33 | 29 |
| McGill, NV (RP1790202) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 1.61 | 0.77 | 1.47 | 1.79 | 0.60 | 1.80 | 0.00 | 0.43 | 0.99 | 0.10 | 0.24 | 0.34 | 10.14 |
| Period of Record Statistics (1892 to Present) | | | | | | | | | | | | | |
| Mean | 0.61 | 0.64 | 0.75 | 0.96 | 1.04 | 0.75 | 0.66 | 0.78 | 0.70 | 0.80 | 0.56 | 0.61 | 8.82 |
| Min | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.76 |
| Max | 2.21 | 2.38 | 2.54 | 3.19 | 3.33 | 4.30 | 3.03 | 3.25 | 5.57 | 3.38 | 1.90 | 3.05 | 16.21 |
| No. Yrs. | 105 | 106 | 109 | 108 | 107 | 108 | 106 | 107 | 106 | 106 | 107 | 106 | 89 |
| Ely, NV (RP1790203) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 2.11 | 0.55 | 1.56 | 1.69 | 0.53 | 1.56 | 0.17 | 0.33 | 0.70 | 0.11 | 0.50 | 1.17 | 10.98 |
| Period of Record Statistics (1888 to Present) | | | | | | | | | | | | | |
| Mean | 0.78 | 0.77 | 1.00 | 1.03 | 1.10 | 0.63 | 0.63 | 0.83 | 0.76 | 0.82 | 0.68 | 0.71 | 9.76 |
| Min | 0.00 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.22 |
| Max | 2.50 | 3.75 | 4.30 | 5.52 | 3.55 | 3.53 | 2.30 | 3.00 | 4.99 | 3.67 | 2.40 | 3.33 | 17.20 |
| No. Yrs. | 95 | 94 | 95 | 95 | 95 | 94 | 94 | 96 | 94 | 93 | 94 | 93 | 90 |
| Cedar Pass, NV (RP1940201) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.60 | 0.49 | 0.57 | 2.10 | 1.85 | 1.44 | 0.57 | 0.18 | 1.11 | 0.28 | 0.29 | 0.66 | 10.14 |
| Period of Record Statistics (1989 to Present) | | | | | | | | | | | | | |
| Mean | 0.42 | 0.64 | 0.86 | 1.41 | 1.40 | 0.93 | 0.85 | 0.79 | 0.79 | 0.84 | 0.51 | 0.41 | 9.84 |
| Min | 0.00 | 0.04 | 0.16 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 5.37 |
| Max | 1.12 | 1.61 | 1.89 | 3.99 | 5.27 | 3.53 | 1.86 | 2.88 | 2.89 | 2.64 | 1.42 | 2.31 | 15.44 |
| No. Yrs. | 27 | 27 | 27 | 27 | 26 | 26 | 27 | 27 | 28 | 28 | 28 | 28 | 26 |
| Callao, UT (RP1950201) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.79 | 0.28 | 0.72 | 1.83 | 0.93 | 0.45 | 0.02 | 0.10 | 1.19 | 0.12 | 0.08 | 0.69 | 7.20 |
| Period of Record Statistics (1902 to Present) | | | | | | | | | | | | | |
| Mean | 0.39 | 0.38 | 0.38 | 0.57 | 0.82 | 0.62 | 0.39 | 0.56 | 0.47 | 0.56 | 0.36 | 0.31 | 5.78 |
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.94 |
| Max | 3.08 | 1.45 | 1.60 | 2.24 | 4.20 | 3.03 | 2.27 | 3.11 | 4.08 | 3.00 | 1.88 | 1.94 | 10.59 |
| No. Yrs. | 80 | 79 | 77 | 80 | 80 | 78 | 81 | 79 | 81 | 80 | 77 | 82 | 74 |



Table E-1
2016 Precipitation Data
 (Page 2 of 6)

| Partoun, UT (RP1950202) | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 1.00 | 0.03 | 0.36 | 0.94 | 0.78 | 0.27 | 0.14 | 0.00 | 0.80 | 0.05 | 0.05 | 1.26 | 5.68 |
| Period of Record Statistics (1905 to Present) | | | | | | | | | | | | | |
| Mean | 0.42 | 0.48 | 0.52 | 0.72 | 0.98 | 0.66 | 0.55 | 0.56 | 0.61 | 0.59 | 0.44 | 0.39 | 6.95 |
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.03 |
| Max | 1.85 | 1.92 | 1.50 | 2.22 | 5.08 | 3.29 | 2.66 | 2.27 | 4.58 | 2.57 | 2.20 | 1.81 | 12.34 |
| No. Yrs. | 63 | 64 | 65 | 67 | 67 | 67 | 66 | 66 | 69 | 67 | 69 | 66 | 51 |
| Eskdale, UT (RP1950203) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 1.48 | 0.05 | 0.10 | 1.30 | 0.48 | 0.24 | 0.06 | 0.20 | 0.00 | 0.08 | 0.13 | 0.49 | 4.61 |
| Period of Record Statistics (1966 to Present) | | | | | | | | | | | | | |
| Mean | 0.31 | 0.39 | 0.60 | 0.66 | 0.69 | 0.57 | 0.53 | 0.60 | 0.65 | 0.64 | 0.37 | 0.35 | 6.38 |
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 |
| Max | 1.77 | 2.38 | 2.03 | 2.21 | 3.35 | 2.32 | 3.26 | 2.91 | 3.57 | 2.24 | 1.40 | 2.57 | 12.57 |
| No. Yrs. | 47 | 48 | 46 | 50 | 50 | 51 | 50 | 50 | 49 | 50 | 48 | 47 | 35 |
| Mather, NV (RP1950204) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 1.15 | 0.37 | 0.90 | 2.02 | 1.21 | 0.54 | 0.11 | 0.22 | 0.69 | 1.43 | 0.40 | 0.76 | 9.80 |
| Period of Record Statistics (1998 to Present) | | | | | | | | | | | | | |
| Mean | 0.36 | 0.51 | 0.67 | 1.27 | 1.40 | 1.08 | 1.40 | 1.30 | 1.25 | 1.24 | 0.65 | 0.30 | 11.44 |
| Min | 0.00 | 0.05 | 0.25 | 0.39 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.01 | 4.52 |
| Max | 1.28 | 1.15 | 1.47 | 2.59 | 4.06 | 3.27 | 3.17 | 4.94 | 3.24 | 3.63 | 2.17 | 1.50 | 16.15 |
| No. Yrs. | 18 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 17 |
| Great Basin National Park, NV (RP1950205) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 1.80 | 1.50 | 1.40 | 2.24 | 1.12 | 1.22 | 0.13 | 0.26 | 0.63 | 0.82 | 1.10 | 1.92 | 14.14 |
| Period of Record Statistics (1948 to Present) | | | | | | | | | | | | | |
| Mean | 1.03 | 1.18 | 1.40 | 1.29 | 1.19 | 0.87 | 0.93 | 1.22 | 1.07 | 1.25 | 1.06 | 1.00 | 13.26 |
| Min | 0.03 | 0.09 | 0.00 | 0.03 | 0.00 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 7.37 |
| Max | 3.78 | 3.69 | 4.96 | 3.70 | 4.74 | 3.73 | 3.90 | 5.25 | 6.02 | 5.22 | 5.36 | 4.23 | 19.7 |
| No. Yrs. | 76 | 76 | 76 | 76 | 76 | 75 | 75 | 77 | 77 | 78 | 77 | 75 | 65 |
| Clifton Flat, UT (RP2530201) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.74 | -- | 0.90 | 3.81 | 0.75 | 1.71 | 0.01 | 0.05 | 2.59 | 0.38 | 0.19 | 0.49 | -- |
| Period of Record Statistics (2004 to Present) | | | | | | | | | | | | | |
| Mean | 0.38 | 0.48 | 0.55 | 1.68 | 2.21 | 0.91 | 0.83 | 0.62 | 1.07 | 0.92 | 0.46 | 0.40 | 10.51 |
| Min | 0.10 | 0.12 | 0.08 | 0.14 | 0.22 | 0.00 | 0.11 | 0.00 | 0.13 | 0.00 | 0.00 | 0.02 | 5.16 |
| Max | 0.74 | 1.35 | 1.21 | 3.90 | 9.97 | 3.09 | 4.18 | 1.53 | 2.10 | 1.70 | 1.26 | 2.10 | 17.87 |
| No. Yrs. | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 |

Table E-1
2016 Precipitation Data
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| Ibapah, UT (RP2530202) | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 1.21 | 1.08 | 1.38 | 2.67 | 1.21 | 1.47 | 0.00 | 0.11 | 1.85 | 0.19 | 0.54 | 1.25 | 12.96 |
| Period of Record Statistics (1903 to Present) | | | | | | | | | | | | | |
| Mean | 0.62 | 0.77 | 0.95 | 1.29 | 1.43 | 0.96 | 0.82 | 0.92 | 0.75 | 0.92 | 0.61 | 0.67 | 10.02 |
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.20 |
| Max | 2.41 | 1.96 | 3.14 | 4.81 | 6.15 | 4.16 | 2.58 | 4.10 | 5.85 | 3.42 | 1.94 | 2.03 | 16.41 |
| No. Yrs. | 85 | 90 | 94 | 91 | 94 | 93 | 95 | 94 | 92 | 94 | 89 | 88 | 45 |
| Tule Valley, UT (RP2570201) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.68 | 0.45 | 0.67 | 1.68 | 0.22 | 0.18 | 0.13 | 0.14 | 0.33 | 0.12 | 0.02 | 0.73 | 5.35 |
| Period of Record Statistics (1987 to Present) | | | | | | | | | | | | | |
| Mean | 0.32 | 0.42 | 0.60 | 0.85 | 0.88 | 0.48 | 0.44 | 0.44 | 0.64 | 0.71 | 0.34 | 0.29 | 6.43 |
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.70 |
| Max | 1.03 | 1.51 | 2.03 | 2.20 | 4.67 | 1.71 | 1.82 | 1.73 | 1.78 | 2.15 | 1.28 | 1.31 | 11.89 |
| No. Yrs. | 28 | 28 | 28 | 27 | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 29 | 27 |
| Bird Creek, NV (RP1790301) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 1.9 | 1.0 | 1.3 | 3.2 | 1.6 | 1.4 | 0.1 | 0.1 | 1.7 | 0.3 | 1.6 | 1.7 | 15.9 |
| Period of Record Statistics (2011 to Present) | | | | | | | | | | | | | |
| Mean | 1.22 | 1.14 | 0.82 | 1.64 | 1.44 | 0.44 | 0.60 | 1.27 | 1.87 | 1.07 | 0.85 | 1.70 | 14.05 |
| Min | 0.8 | 0.3 | 0.1 | 0.7 | 0.2 | 0.0 | 0.1 | 0.1 | 0.9 | 0.0 | 0.4 | 0.3 | 12.0 |
| Max | 1.9 | 1.7 | 1.3 | 3.2 | 3.2 | 1.4 | 1.0 | 4.7 | 4.5 | 2.0 | 1.6 | 2.8 | 16.1 |
| No. Yrs. | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 |
| Berry Creek, NV (RP1790302) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 5.1 | 1.2 | 2.6 | 4.3 | 2.8 | 2.2 | 0.0 | 0.8 | 2.7 | 0.9 | 2.0 | 3.3 | 27.9 |
| Period of Record Statistics (1980 to Present) | | | | | | | | | | | | | |
| Mean | 2.62 | 2.75 | 3.36 | 3.39 | 2.88 | 1.39 | 1.32 | 1.40 | 1.74 | 2.16 | 2.04 | 2.44 | 27.52 |
| Min | 0.7 | 0.5 | 0.8 | 0.0 | 0.2 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 17.2 |
| Max | 5.2 | 6.1 | 7.9 | 8.4 | 7.9 | 4.9 | 3.6 | 5.8 | 9.3 | 7.2 | 5.7 | 7.1 | 39.8 |
| No. Yrs. | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 37 | 37 | 37 | 36 |
| Kalamazoo, NV (RP1840301) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 3.9 | 0.9 | 2.1 | 3.1 | 1.0 | 1.7 | 0.0 | 0.1 | 1.7 | 0.9 | 1.7 | 1.7 | 18.8 |
| Period of Record Statistics (2011 to Present) | | | | | | | | | | | | | |
| Mean | 1.96 | 1.46 | 1.34 | 2.02 | 1.70 | 0.68 | 0.60 | 1.75 | 1.82 | 1.52 | 1.12 | 2.08 | 18.04 |
| Min | 1.3 | 0.4 | 0.6 | 1.5 | 0.2 | 0.0 | 0.0 | 0.1 | 0.8 | 0.1 | 0.4 | 0.4 | 15.8 |
| Max | 3.9 | 2.5 | 2.1 | 3.1 | 4.5 | 1.7 | 1.3 | 5.2 | 4.1 | 2.7 | 2.0 | 3.8 | 20.5 |
| No. Yrs. | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 |



Table E-1
2016 Precipitation Data
 (Page 4 of 6)

| Cave Mountain, NV (RP1840302) | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 4.0 | 1.4 | 1.3 | 3.3 | 1.7 | 2.6 | 0.2 | 0.3 | 0.6 | 0.6 | 1.8 | 3.4 | 21.2 |
| Period of Record Statistics (2011 to Present) | | | | | | | | | | | | | |
| Mean | 2.12 | 1.60 | 1.36 | 2.12 | 1.94 | 0.68 | 1.12 | 2.37 | 1.80 | 1.63 | 1.23 | 2.60 | 20.57 |
| Min | 0.9 | 0.5 | 0.7 | 1.4 | 0.4 | 0.0 | 0.2 | 0.3 | 0.3 | 0.1 | 0.6 | 0.4 | 20.6 |
| Max | 4.0 | 2.8 | 2.3 | 3.3 | 5.3 | 2.6 | 2.3 | 5.3 | 3.3 | 3.0 | 1.8 | 3.9 | 21.8 |
| No. Yrs. | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 |
| Wheeler Peak, NV (RP1840303) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 4.0 | 2.0 | 2.9 | 5.2 | 2.0 | 1.2 | 0.1 | 0.2 | 0.8 | 1.8 | 2.4 | 5.1 | 27.7 |
| Period of Record Statistics (2010 to Present) | | | | | | | | | | | | | |
| Mean | 2.28 | 2.30 | 2.82 | 3.48 | 3.17 | 0.62 | 1.82 | 2.21 | 2.54 | 2.84 | 2.44 | 4.24 | 30.77 |
| Min | 1.6 | 1.2 | 1.0 | 2.2 | 0.6 | 0.0 | 0.1 | 0.2 | 0.1 | 0.3 | 1.1 | 0.8 | 27.2 |
| Max | 4.0 | 3.3 | 5.9 | 5.5 | 7.1 | 2.0 | 4.3 | 5.3 | 6.0 | 5.7 | 5.7 | 10.9 | 34.7 |
| No. Yrs. | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 |
| Goshute, UT (RP2530301) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.78 | 0.48 | 0.84 | 2.9 | 1.15 | 1.52 | 0.19 | 0.23 | 2.48 | 0.14 | 0.42 | 0.94 | 12.07 |
| Period of Record Statistics (2010 to Present) | | | | | | | | | | | | | |
| Mean | 0.56 | 0.55 | 0.50 | 1.27 | 2.28 | 0.62 | 0.69 | 0.85 | 1.07 | 0.64 | 0.54 | 0.81 | 10.36 |
| Min | 0.33 | 0.25 | 0.15 | 0.42 | 0.09 | 0.00 | 0.19 | 0.23 | 0.13 | 0.01 | 0.26 | 0.36 | 6.24 |
| Max | 0.80 | 1.07 | 0.86 | 2.90 | 6.54 | 1.52 | 1.50 | 2.62 | 2.48 | 1.27 | 1.22 | 1.57 | 13.93 |
| No. Yrs. | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| Hals Canyon, UT (RP2550301) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.75 | 0.33 | 0.19 | 0.65 | 0.32 | 0.26 | 0.13 | 0.69 | 0.31 | 0.07 | 0.53 | 0.87 | 5.10 |
| Period of Record Statistics (2010 to Present) | | | | | | | | | | | | | |
| Mean | 0.38 | 0.25 | 0.25 | 0.58 | 0.73 | 0.26 | 0.48 | 0.95 | 0.90 | 0.71 | 0.42 | 0.47 | 6.38 |
| Min | 0.05 | 0.13 | 0.10 | 0.17 | 0.01 | 0.00 | 0.08 | 0.39 | 0.00 | 0.07 | 0.10 | 0.09 | 4.52 |
| Max | 0.75 | 0.35 | 0.40 | 1.13 | 2.08 | 0.65 | 1.00 | 2.60 | 2.02 | 1.56 | 1.13 | 1.43 | 7.77 |
| No. Yrs. | 6 | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 5 |
| Tule Valley, UT (RP2570301) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 1.06 | 0.30 | 0.50 | 1.78 | 0.27 | 0.09 | 0.28 | 0.24 | 0.16 | 0.73 | 0.15 | 0.66 | 6.22 |
| Period of Record Statistics (2010 to Present) | | | | | | | | | | | | | |
| Mean | 0.61 | 0.37 | 0.41 | 1.02 | 1.38 | 0.18 | 0.35 | 0.57 | 0.79 | 0.71 | 0.56 | 0.67 | 7.61 |
| Min | 0.15 | 0.06 | 0.17 | 0.27 | 0.02 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.04 | 0.14 | 5.72 |
| Max | 1.06 | 0.84 | 0.64 | 1.78 | 5.48 | 0.46 | 1.38 | 0.92 | 1.81 | 1.37 | 1.25 | 1.74 | 12.37 |
| No. Yrs. | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |

Table E-1
2016 Precipitation Data
 (Page 5 of 6)

| Subalpine (west), NV (RP1840501) | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 3.18 | 0.66 | 0.90 | 2.63 | 1.88 | 1.25 | 0.27 | 0.15 | 0.77 | 1.88 | 0.46 | 0.36 | 14.39 |
| Period of Record Statistics (2010 to Present) | | | | | | | | | | | | | |
| Mean | 1.72 | 1.72 | 1.98 | 2.39 | 3.32 | 0.61 | 1.96 | 1.55 | 1.58 | 2.46 | 1.84 | 3.22 | 24.35 |
| Min | 0.39 | 0.66 | 0.90 | 1.05 | 0.63 | 0.00 | 0.27 | 0.15 | 0.08 | 0.00 | 0.46 | 0.36 | 14.39 |
| Max | 3.18 | 2.53 | 3.41 | 3.53 | 7.42 | 1.78 | 3.63 | 3.56 | 3.71 | 4.9 | 4.48 | 8.98 | 26.60 |
| No. Yrs. | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 |
| Montane (west), NV (RP1840502) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 3.37 | 1.17 | 1.76 | 5.98 | 1.50 | 1.40 | 0.28 | 0.08 | 0.31 | 1.74 | 0.24 | 0.86 | 18.69 |
| Period of Record Statistics (2010 to Present) | | | | | | | | | | | | | |
| Mean | 1.40 | 1.33 | 1.51 | 2.50 | 2.49 | 0.47 | 1.29 | 1.21 | 1.30 | 2.02 | 1.35 | 2.31 | 19.18 |
| Min | 0.37 | 0.73 | 0.36 | 1.17 | 0.36 | 0.00 | 0.28 | 0.08 | 0.04 | 0.00 | 0.23 | 0.62 | 15.61 |
| Max | 3.37 | 1.84 | 2.66 | 5.98 | 5.60 | 1.40 | 2.26 | 3.14 | 3.29 | 3.60 | 3.53 | 6.02 | 20.59 |
| No. Yrs. | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 |
| Pinyon-Juniper (west), NV (RP1840503) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 1.23 | 0.81 | 0.72 | 2.83 | 0.96 | 0.96 | 0.07 | 0.07 | 0.19 | 1.30 | 0.66 | 1.26 | 11.06 |
| Period of Record Statistics (2011 to Present) | | | | | | | | | | | | | |
| Mean | 0.62 | 0.77 | 0.73 | 1.23 | 1.21 | 0.34 | 1.00 | 1.04 | 1.14 | 1.61 | 0.52 | 0.91 | 11.15 |
| Min | 0.00 | 0.23 | 0.46 | 0.59 | 0.13 | 0.00 | 0.07 | 0.07 | 0.01 | 0.00 | 0.04 | 0.22 | 8.14 |
| Max | 1.23 | 1.22 | 1.30 | 2.83 | 3.78 | 0.96 | 2.23 | 1.97 | 2.27 | 4.00 | 0.97 | 2.03 | 13.52 |
| No. Yrs. | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 |
| Sagebrush (west), NV (RP1840504) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 2.04 | 0.42 | 0.90 | 1.14 | 0.33 | 0.82 | 0.35 | 0.10 | 0.02 | 1.19 | 0.39 | 1.79 | 9.49 |
| Period of Record Statistics (2010 to Present) | | | | | | | | | | | | | |
| Mean | 0.60 | 0.54 | 0.48 | 0.61 | 1.05 | 0.20 | 0.96 | 1.03 | 0.76 | 0.98 | 0.46 | 1.21 | 8.87 |
| Min | 0.09 | 0.18 | 0.10 | 0.23 | 0.09 | 0.00 | 0.17 | 0.10 | 0.00 | 0.00 | 0.02 | 0.09 | 7.96 |
| Max | 2.04 | 0.79 | 0.90 | 1.14 | 2.68 | 0.82 | 2.65 | 2.27 | 2.55 | 1.50 | 1.15 | 2.99 | 10.83 |
| No. Yrs. | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| Subalpine (east), NV (RP1950501) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.50 | 0.58 | 1.02 | 2.39 | 1.93 | 1.23 | 0.22 | 0.18 | 0.58 | 1.15 | 0.21 | 0.22 | 10.21 |
| Period of Record Statistics (2011 to Present) | | | | | | | | | | | | | |
| Mean | 0.58 | 1.11 | 1.00 | 1.64 | 1.58 | 0.62 | 1.45 | 1.75 | 1.99 | 1.45 | 0.62 | 0.43 | 14.22 |
| Min | 0.02 | 0.36 | 0.48 | 0.97 | 0.39 | 0.00 | 0.22 | 0.14 | 0.43 | 0.00 | 0.21 | 0.16 | 10.21 |
| Max | 1.47 | 2.79 | 1.32 | 2.39 | 4.26 | 1.66 | 2.92 | 3.71 | 4.00 | 2.94 | 0.87 | 0.82 | 17.26 |
| No. Yrs. | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 4 |



Table E-1
2016 Precipitation Data
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| Sagebrush (east), NV (RP1950502) | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.69 | 0.19 | 0.62 | 1.38 | 0.33 | 0.34 | 0.00 | 0.32 | 0.17 | 1.08 | 0.08 | 0.58 | 5.78 |
| Period of Record Statistics (2010 to Present) | | | | | | | | | | | | | |
| Mean | 0.35 | 0.58 | 0.52 | 0.64 | 0.86 | 0.12 | 0.58 | 0.75 | 0.90 | 0.74 | 0.43 | 0.76 | 7.23 |
| Min | 0.10 | 0.15 | 0.23 | 0.04 | 0.01 | 0.00 | 0.00 | 0.11 | 0.12 | 0.00 | 0.08 | 0.11 | 5.38 |
| Max | 0.75 | 1.09 | 0.64 | 1.38 | 2.71 | 0.34 | 1.18 | 2.97 | 2.47 | 1.39 | 1.10 | 3.01 | 8.66 |
| No. Yrs. | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| Salt Desert Shrub (east), NV (RP1950503) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.86 | 0.33 | 0.39 | 1.27 | 0.26 | 0.12 | 0.14 | 0.20 | 0.00 | 1.02 | 0.24 | 0.53 | 5.36 |
| Period of Record Statistics (2011 to Present) | | | | | | | | | | | | | |
| Mean | 0.57 | 0.31 | 0.38 | 0.52 | 0.51 | 0.05 | 0.40 | 1.12 | 0.80 | 0.65 | 0.31 | 0.43 | 6.04 |
| Min | 0.11 | 0.08 | 0.22 | 0.16 | 0.00 | 0.00 | 0.13 | 0.20 | 0.00 | 0.00 | 0.07 | 0.24 | 4.60 |
| Max | 0.89 | 0.67 | 0.63 | 1.27 | 1.77 | 0.13 | 0.71 | 3.45 | 2.34 | 1.38 | 0.87 | 0.65 | 7.85 |
| No. Yrs. | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 5 |
| Salt Desert Shrub (west), NV (RP1840505) | | | | | | | | | | | | | |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| 2016 | 0.37 | 0.24 | 0.13 | 1.02 | 0.27 | 0.54 | 0.35 | 0.00 | 0.47 | 1.06 | 0.18 | 0.89 | 5.52 |
| Period of Record Statistics (2013 to Present) | | | | | | | | | | | | | |
| Mean | 0.17 | 0.32 | 0.18 | 0.57 | 0.69 | 0.38 | 0.50 | 0.80 | 1.23 | 0.61 | 0.13 | 0.39 | 5.96 |
| Min | 0.01 | 0.11 | 0.11 | 0.22 | 0.14 | 0.00 | 0.07 | 0.00 | 0.11 | 0.00 | 0.02 | 0.12 | 5.52 |
| Max | 0.37 | 0.62 | 0.29 | 1.02 | 1.66 | 0.98 | 0.90 | 1.74 | 3.00 | 1.06 | 0.27 | 0.89 | 6.98 |
| No. Yrs. | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 |

Note: a = 1 day missing, b = 2 days missing, c = 3 days missing, etc., z = 26 or more days missing; Long-term means based on summation of period of record monthly mean row values.

Table E-2
2016 High-Altitude Precipitation Data

| Source | Station Number | Station Name | 2016 Precipitation (in.) | Period of Record Statistics | | | | |
|--------|----------------|--------------|--------------------------|-----------------------------|-------|------|-------|----------|
| | | | | Time Period | Mean | Min | Max | No. Yrs. |
| NDWR | RP1790101 | Schellborne | 21.40 | 1954 - 2016 | 14.66 | 0.00 | 26.80 | 57 |
| NDWR | RP1790102 | Connors | 15.60 | 1956 - 2016 | 14.03 | 3.40 | 23.94 | 57 |
| NDWR | RP1830101 | Mount Wilson | 16.90 | 1954 - 2016 | 16.58 | 7.50 | 28.30 | 60 |



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SOUTHERN NEVADA WATER AUTHORITY

100 City Parkway, Suite 700 • Las Vegas, NV 89106
MAILING ADDRESS: P.O. Box 99956 • Las Vegas, NV 89193-9956
(702) 862-3400 • snwa.com

March 29, 2017

Jason King, P.E., State Engineer
Nevada Division of Water Resources
901 S. Stewart Street, Suite 2002
Carson City, Nevada 89701

Dear Mr. King:

SUBJECT: SUBMITTAL OF ANNUAL MONITORING REPORTS FOR SELECTED SNWA AND LVVWD PERMITS IN SOUTHERN AND EASTERN NEVADA

The enclosed reports are submitted in satisfaction of hydrologic monitoring and reporting requirements associated with water-right permits held by the Southern Nevada Water Authority (SNWA) and Las Vegas Valley Water District (LVVWD) in eastern and southern Nevada. The reports included in this submittal are described below:

2016 Annual SNWA Monitoring Report for Coyote Spring, Garnet, and Hidden Valleys, Clark and Lincoln Counties, Nevada (Hydrographic Areas 210, 216 and 217) for Permit Numbers 54073, 54074, 68822, 77291-77306, 70429, 70430, 74094, 74095, 79001-79010 and 83490. The report also includes data collected at monitoring sites located in adjacent hydrographic basins.

2016 Spring Valley Hydrologic Monitoring, Management, and Mitigation Plan Status and Data Report (Hydrographic Area 184) in satisfaction of reporting requirements set forth in the hydrologic monitoring plan approved by the Nevada State Engineer (NSE) associated with Ruling 6164.

2016 Delamar, Dry Lake and Cave Valleys Hydrologic Monitoring, Management, and Mitigation Plan Status and Data Report (Hydrographic Areas 180, 181 and 182) in satisfaction of reporting requirements set forth in the hydrologic monitoring plan approved by the NSE associated with Rulings 6165 through 6167.

2016 Annual Monitoring Report for LVVWD Groundwater Permits in Ivanpah Valley, Nevada (Hydrographic Area 164A) for Permits Numbers 17691, 21997, 51133, 51543, 51544, 52733-52735, 54983, 76210, 81346, 83076 and 83077. A CD containing electronic files of water-level data in the format requested by your office is included in the report.

SNWA MEMBER AGENCIES

Big Bend Water District • Boulder City • Clark County Water Reclamation District • City of Henderson • City of Las Vegas • City of North Las Vegas • Las Vegas Valley Water District

Jason King, P.E., State Engineer

March 29, 2017

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Electronic files containing the 2016 hydrologic and groundwater-production data collected under the various monitoring programs associated with these permits have previously been submitted to your office in the required format.

If you have any questions concerning these reports, please contact Andrew Burns at (702) 862-3772.

Sincerely,



Colby N. Pellegrino

Director of Water Resources

CNP:AB:JP:lmv

Enclosures (4)

c: Adam Sullivan, Hydrology Section Chief, Nevada Division of Water Resources
Matt Dillion, Water Resource Specialist, Nevada Division of Water Resources
John Guillory, Supervising Engineer, Nevada Division of Water Resources



SOUTHERN NEVADA WATER AUTHORITY

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March 29, 2017

Steve Mietz, Superintendent
Great Basin National Park
100 Great Basin National Park
Baker, Nevada 89311

William Dunkelberger, Forest Supervisor
U.S. Forest Service
1200 Franklin Way
Sparks, Nevada 89431

Glen Knowles, Field Supervisor
U.S. Fish and Wildlife Service
4701 N. Torrey Pines Dr.
Las Vegas, Nevada 89130

Michael Herder, Ely District Manager
Bureau of Land Management
702 N. Industrial Way
HC 33 Box 3350
Ely, Nevada 89301

Cathy Wilson, Area Director
Bureau of Indian Affairs, Western Region
2600 N. Central Avenue, MS#460
Phoenix, Arizona 85004

Dear Stipulation Executive Committee Members:

SUBJECT: SUBMITTAL OF THE 2016 SPRING VALLEY AND DDC VALLEYS HYDROLOGIC MONITORING, MANAGEMENT, AND MITIGATION PLAN STATUS AND DATA REPORTS

The Southern Nevada Water Authority (SNWA) hereby submits the subject reports to the Stipulation Executive Committee (EC). These reports are submitted in satisfaction of reporting requirements set forth in hydrologic monitoring plans associated with Exhibit A of the Stipulation for Withdrawal of Protests for both Spring Valley and Delamar, Dry Lake, and Cave (DDC) valleys.

These reports provide the EC and Technical Review Panel with hydrologic data for calendar year 2016 and a status update of monitoring activities performed by SNWA. Copies of the reports and electronic data submittal have also been posted on the Spring Valley and DDC valleys data-exchange website.

If you have any questions regarding these reports, please contact Andrew Burns at (702) 862-3772.

Sincerely,

Colby N. Pellegrino
Director of Water Resources

CNP:AB:JP:lmv
Enclosures (2)

c: Andy Gault, Bureau of Land Management
Ray Roessel, Bureau of Indian Affairs, Western Region
Sue Braumiller, U.S. Fish and Wildlife Service
Joe Gurrieri, U.S. Forest Service
Gary Karst, National Park Service
Jose Noriega, U.S. Forest Service
Andrew Burns, Southern Nevada Water Authority
James Prieur, Southern Nevada Water Authority

SNWA MEMBER AGENCIES