



SOUTHERN NEVADA
WATER AUTHORITY

Water Resources Division

2015 Spring Valley Hydrologic Monitoring, Management, and Mitigation Plan Status and Data Report

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

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CONTENTS

List of Figures iii

List of Tables v

List of Acronyms and Abbreviations ix

1.0 Introduction..... 1-1

 1.1 Background..... 1-1

 1.2 Major Activities Performed in 2015..... 1-3

 1.3 Report Scope..... 1-3

2.0 SV3M Plan Status and Data 2-1

 2.1 Monitor-Well Network..... 2-1

 2.1.1 Well Network Hydrologic Data 2-3

 2.1.2 Well Network 2-3

 2.1.2.1 Exploratory- and Production-Well Monitoring 2-3

 2.1.2.2 Existing Monitor Wells 2-6

 2.1.2.3 Two Monitor Wells near Shoshone Ponds 2-6

 2.1.2.4 Cleveland Ranch Hydrologic Monitoring 2-6

 2.1.3 Future Monitor Wells..... 2-9

 2.1.3.1 Interbasin Monitoring Zone Network 2-9

 2.1.3.2 Two Monitor Wells between the Zone and Closest
Production Well 2-9

 2.1.3.3 Monitor Well North of Production Wells 2-10

 2.2 Aquifer Testing..... 2-10

 2.3 Spring Monitoring Network 2-10

 2.4 Stream Discharge Measurements 2-12

 2.4.1 Discharge Sites at Cleve Creek and Big Springs Creek..... 2-14

 2.4.1.1 Cleve Creek 2-14

 2.4.1.2 Big Springs Creek 2-14

 2.4.2 Synoptic-Discharge Study of Big Springs and Lake Creeks 2-15

 2.5 Precipitation-Station Network 2-15

 2.6 Water-Chemistry-Sampling Program 2-17

 2.7 Reporting 2-17

 2.8 Proposed Schedule of Groundwater Withdrawals 2-17

3.0 Anticipated 2016 SNWA SV3M Plan Activities 3-1

4.0 References..... 4-1

Appendix A - SV3M Plan Periodic Water-Level Data

Appendix B - SV3M Plan Continuous Water-Level Data

Appendix C - SV3M Plan Spring-Discharge and Piezometer Data



CONTENTS (CONTINUED)

Appendix D - SNWA and USGS Discharge Measurements and Hydrographs
for Big Springs Creek and Cleve Creek

Appendix E - Precipitation-Station Data

FIGURES

NUMBER	TITLE	PAGE
1-1	Spring Valley Hydrographic Area 184.	1-2
2-1	Spring Valley Monitor-Well Network with 2014 Consensus Modifications.	2-2
2-2	Location of Monitor Wells near Shoshone Ponds	2-7
2-3	Monitoring Sites Associated with Cleveland Ranch	2-8
2-4	Spring and Stream Hydrologic Monitoring Locations.	2-11
2-5	Big Springs Synoptic-Discharge Study Area, Snake Valley	2-16
2-6	Precipitation Station Locations.	2-20



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TABLES

NUMBER	TITLE	PAGE
2-1	SV3M Well Network (arranged from north to south)	2-4
2-2	Spring Discharge Monitoring Sites.	2-12
2-3	Spring Piezometer Sites and Completion Information	2-13
2-4	Cleve Creek and Big Springs Monitoring Locations	2-14
2-5	High-Altitude and Regional Precipitation Monitoring Station Locations	2-18
A-1	SV3M Plan Periodic Water-Level Measurement Data.	A-1
B-1	Spring Valley Well 383704114225001, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-2
B-2	Spring Valley Well 384112114091101, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-4
B-3	Spring Valley Well 384227114082701, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-6
B-4	Spring Valley Well 384831114314301, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-8
B-5	Spring Valley Well 384745114224401, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-10
B-6	Spring Valley Well 390803114251001, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-12
B-7	Spring Valley Robison Crooked Well, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-14
B-8	Hamlin Valley Well 383023114115302, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-16
B-9	Spring Valley Well 184W502M Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-18
B-10	Spring Valley Well 184W504M, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-20



TABLES (CONTINUED)

NUMBER	TITLE	PAGE
B-11	Spring Valley Well 184W506M, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-22
B-12	Spring Valley Well 184W508M, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-24
B-13	Spring Valley Well SPR7006M, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-26
B-14	Spring Valley Well SPR7007M, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-28
B-15	Spring Valley Well SPR7005M, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-30
B-16	Spring Valley Well SPR7008M, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-32
B-17	Spring Valley Well SPR7024M, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-34
B-18	Spring Valley Well SPR7024M2, Calendar Year 2015 Water-Level Data, Daily-Mean Values	B-36
C-1	Spring Valley Miscellaneous Discharge Data	C-1
C-2	SV3M Plan Periodic Piezometer Water-Level Data.....	C-4
C-3	Station Number 1847301 - Rock Spring near Osceola, NV, Water Year 2015 Mean Daily Discharge Values	C-6
C-4	Station Number 1846203 - Swallow Springs South near Minerva, NV, Water Year 2015 Mean Daily Discharge Values	C-8
C-5	Minerva Spring Piezometer SPR7007Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-10
C-6	Blind Spring Piezometer SPR7011Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-12
C-7	Four Wheel Drive Spring Piezometer SPR7012Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-14

TABLES (CONTINUED)

NUMBER	TITLE	PAGE
C-8	The Seep Piezometer SPR7014Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-16
C-9	West Spring Valley Complex Piezometer SPR7015Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-18
C-10	Unnamed Spring Five Piezometer SPR7016Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-20
C-11	South Millick Spring Piezometer SPR7018Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-22
C-12	Layton Spring Piezometer SPR7019Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-24
C-13	Stonehouse Spring Piezometer SPR7020Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-26
C-14	Keegan Spring Piezometer SPR7021Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-28
C-15	Willow Spring Piezometer SPR7022Z, Calendar Year 2015 Water-Level Data, Daily-Mean Values	C-30
D-1	USGS Discharge Measurements at Big Springs Creek near Baker, Nevada	D-1
D-2	10243700 - Cleve Creek near Ely, Nevada (Discharge Measurements)	D-4
E-1	2015 Precipitation Data	E-1
E-2	2015 High-Altitude Precipitation Data	E-7



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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
SNPLMA	Southern Nevada Public Lands Management Act
SNWA	Southern Nevada Water Authority
SVMM	Spring Valley Monitoring and Mitigation
TRP	Technical Review Panel
USGS	U.S. Geological Survey
UTM	Universal Transverse Mercator
WY	water year

ABBREVIATIONS

°C	degrees Celsius
afy	acre-feet per year
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 Spring Valley is presented in [Figure 1-1](#). This is the ninth 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).

This report provides the Nevada State Engineer (NSE) hydrologic data collected in 2015 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 existing 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 hydrographic area (HA) 184 for municipal and domestic purposes 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

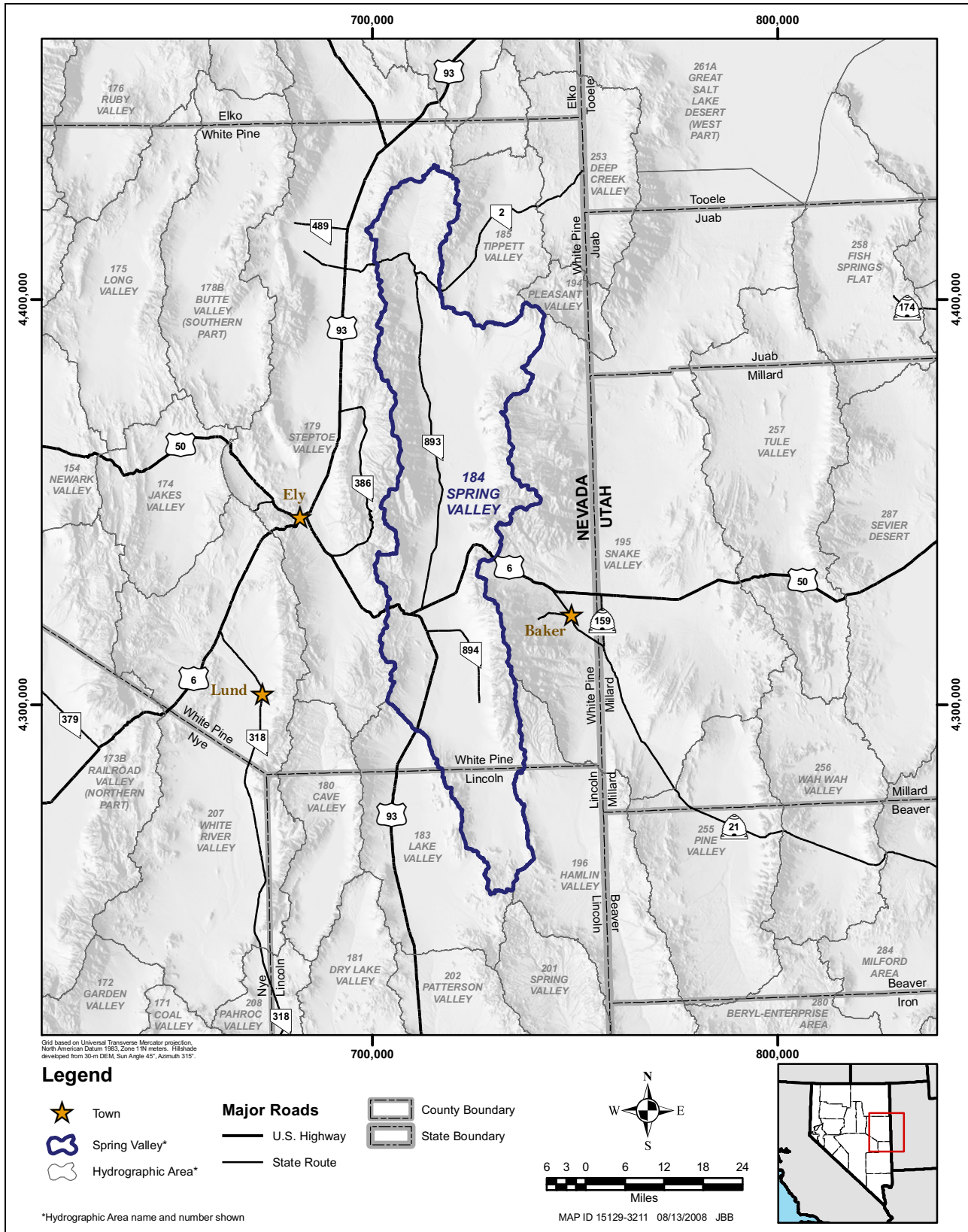


Figure 1-1
Spring Valley Hydrographic Area 184

through November, 2011. On March 22, 2012, the NSE issued Ruling 6164 granting SNWA Spring Valley Application 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.

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 2015

Major activities associated with the SV3M Plan performed in 2015 were as follows:

- Continued implementation of the SV3M Plan including data collection efforts and maintenance of the monitoring network.
- Completed the Big Springs / Lake Creek synoptic discharge study report.
- 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 Scope

[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 2016, 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) 2015 associated with monitoring groundwater conditions, spring and stream discharge, precipitation, and water-chemistry are also presented. No aquifer testing was performed on program wells during CY 2015.

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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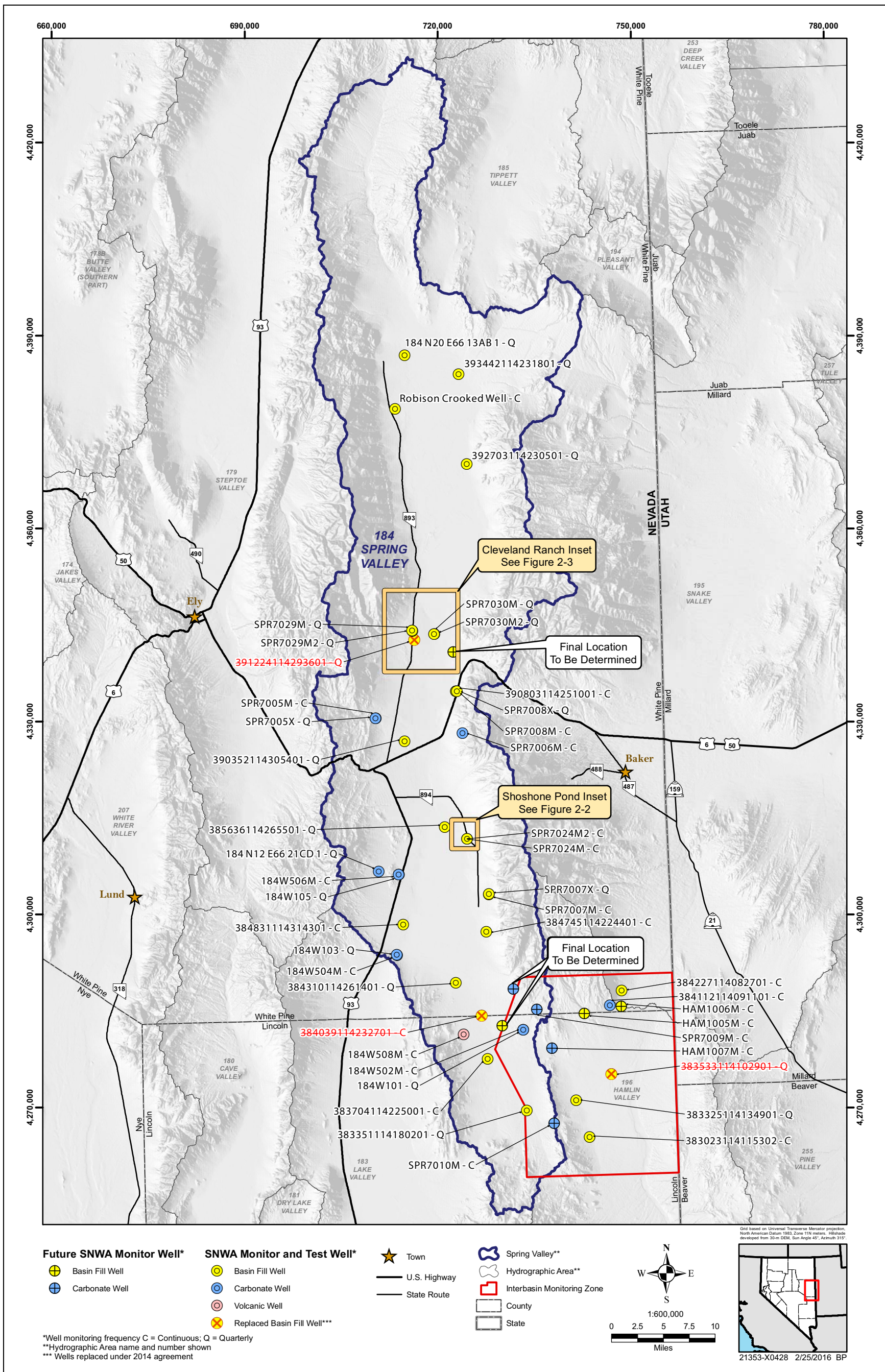


Figure 2-1
Spring Valley Monitor-Well Network with 2014 Consensus Modifications

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 production wells 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 production wells is determined by SNWA.
- Continuous groundwater level monitoring of 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 2015 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. [Appendix B](#) presents the CY 2015 mean daily values derived from continuous data collection at wells where continuous groundwater-level data collection is required. Hydrographs present both periodic and continuous data for CY 2015 and period of record data. 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.

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 and monitor wells on a continuous basis and quarterly measurements of

Table 2-1
SV3M 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	---	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	---	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	---	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	---	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	---	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



Table 2-1
SV3M 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)									
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	---	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
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	---	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 11BDCD1	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
38335114180201	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
Near Zone Well 1	---	--- ^e	--- ^e	--- ^e	Future	---	---	---	---	---	Carbonate	Continuous
Near Zone Well 2	---	--- ^e	--- ^e	--- ^e	Future	---	---	---	---	---	Basin Fill	Continuous
Northeast Well	---	--- ^e	--- ^e	--- ^e	Future	---	---	---	---	---	--- ^e	Continuous

^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.



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 instrumented with continuous monitoring equipment and incorporated into the monitoring network. 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 include 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 three 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 Pond 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 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](#).

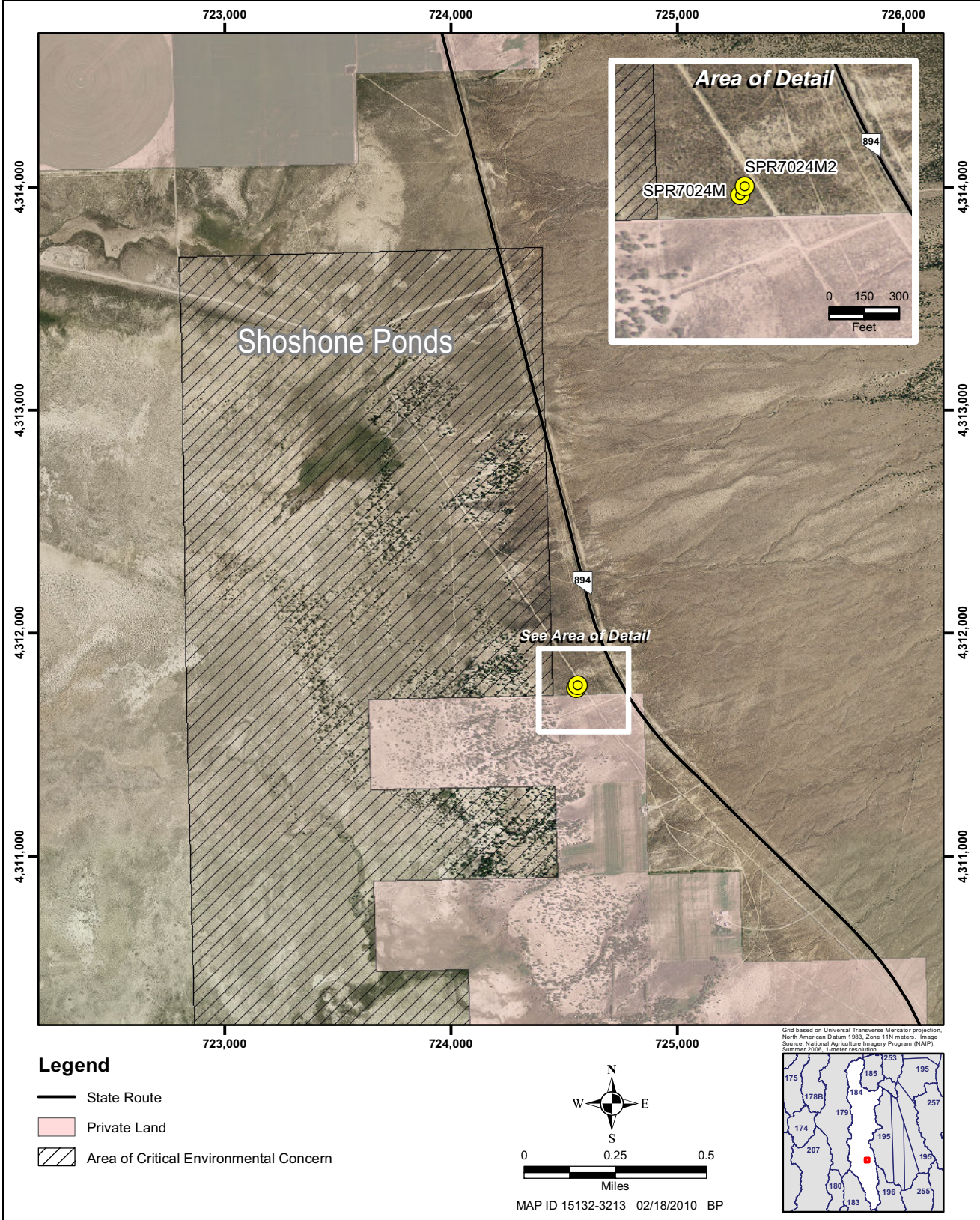


Figure 2-2
Location of Monitor Wells near Shoshone Ponds

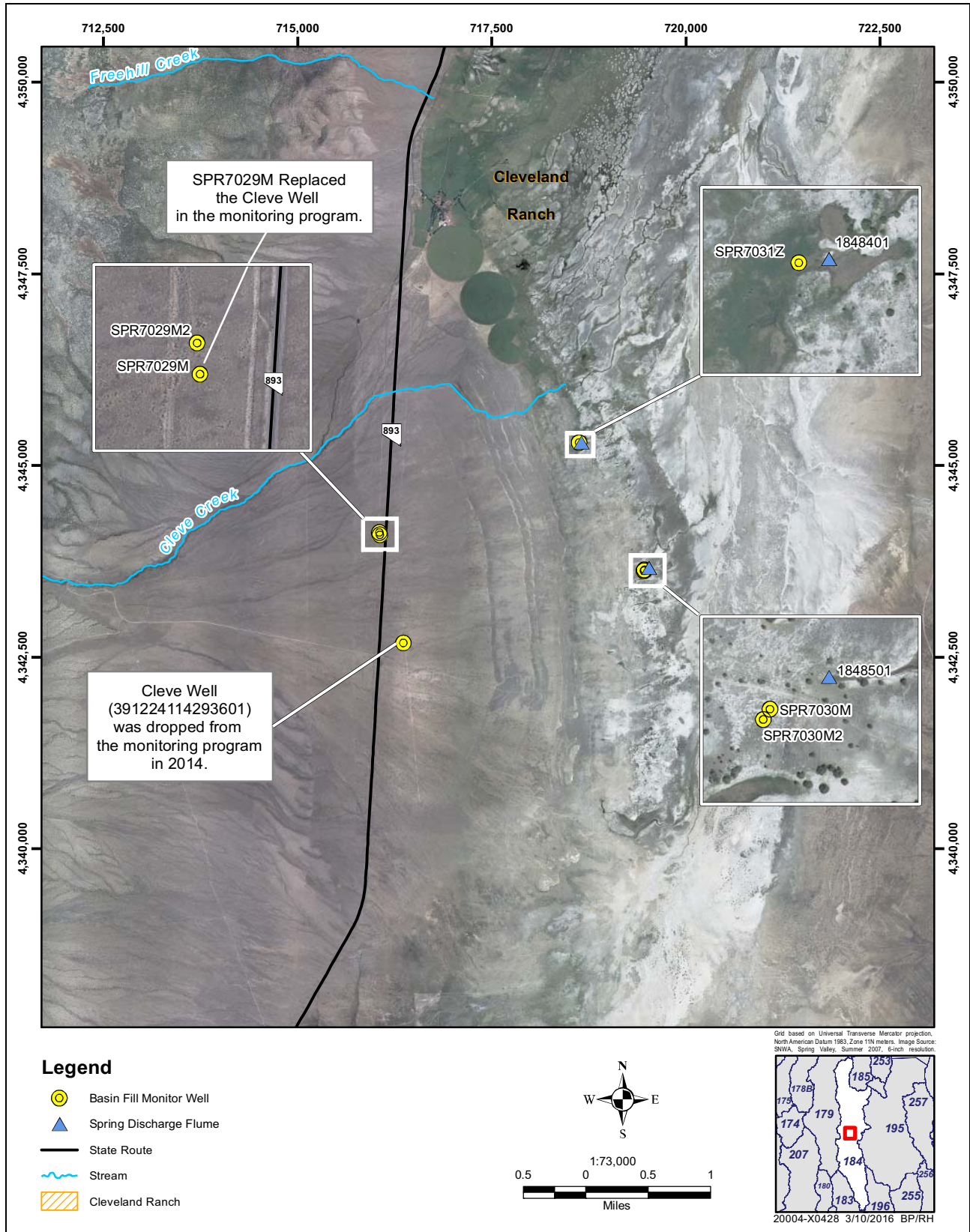


Figure 2-3
Monitoring Sites Associated with Cleveland Ranch

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 approved 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.

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 production wells.

2.2 Aquifer Testing

The SV3M Plan requires that two constant-rate tests be performed in Spring Valley, at the closest production well completed in basin-fill and carbonate-rock aquifers nearest to the Zone. To date, six 72- to 120-hour constant-rate tests have been performed on SNWA 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 spring-pool level staff plates, 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 groundwater 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 measuring-points was performed for each piezometer. Continuous groundwater level data from the piezometers are presented in [Appendix C](#).

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

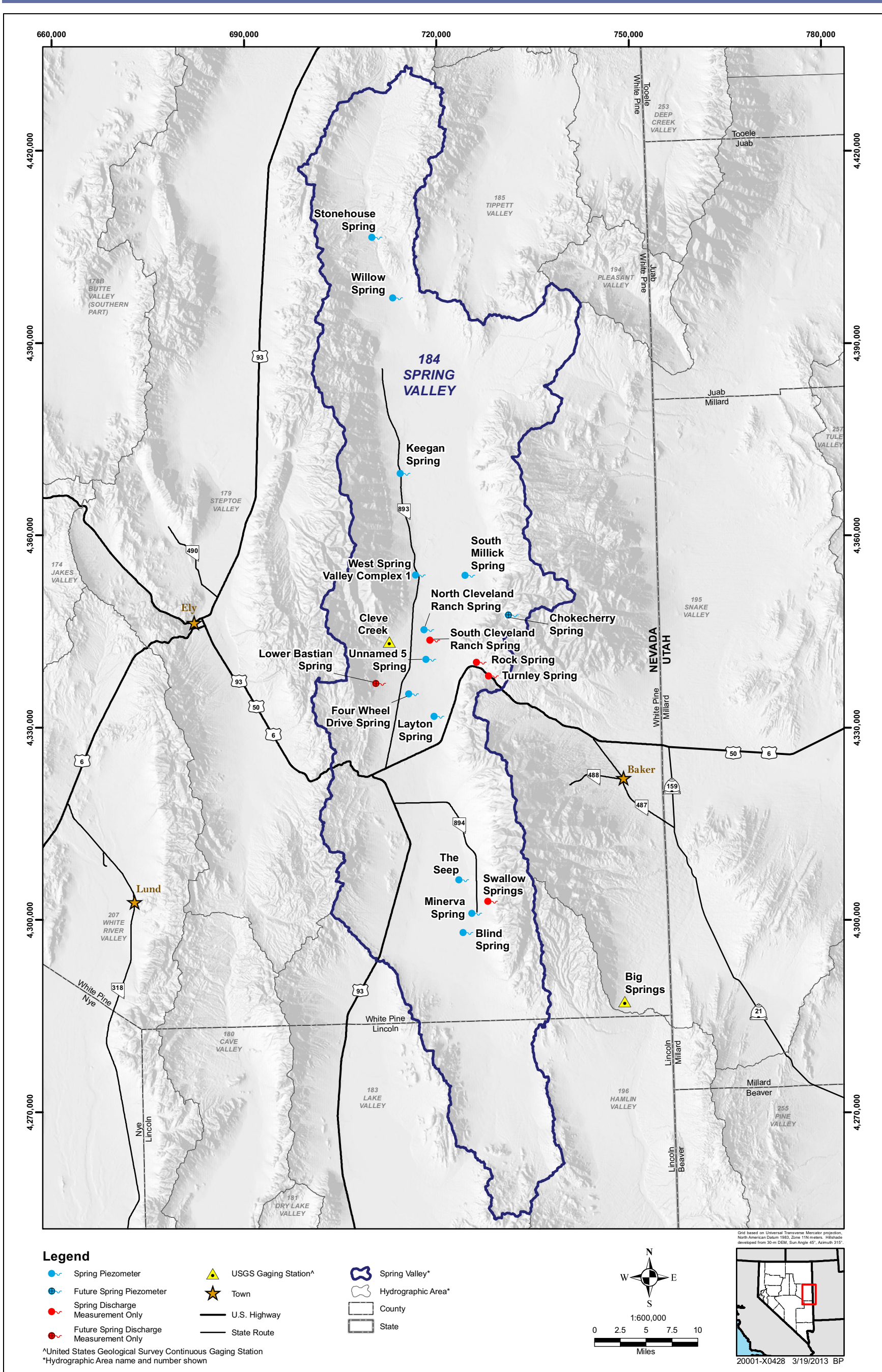


Figure 2-4
Spring and Stream Hydrologic Monitoring Locations

**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.

associated with these springs. A flume to measure the discharge of the South Cleveland Ranch Spring was installed in 2010. Discharge data from South and North Cleveland Ranch Springs are presented in [Appendix C](#).

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 water year (WY) 2015 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 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 and data associated with the stream monitoring at Cleve Creek, Big Springs, and the Big Springs Creek - Lake Creek Complex.

**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).



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 2015 from these locations are provided in [Appendix D](#). The 2015 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, 2016).

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 (2016). A crest-stage partial record exists for the station from October 1967 to September 1976 (USGS, 2016).

The WY 2015 mean annual discharge for Cleve Creek was 5.76 cfs. The mean annual discharge over the period of record through WY 2015 was 10.2 cfs, and the minimum and maximum mean annual discharges were 5.15 cfs in WY 1960 and 22.2 cfs in WY 1984 (USGS, 2016).

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, 2016).

The WY 2015 mean annual discharge for Big Springs South Channel was 5.34 cfs, approximately 94 percent of the period of record mean annual discharge of 5.71 cfs. The following statistics were calculated from the period of record WY 2005 through 2015: period of record mean annual discharge was 5.71 cfs; minimum annual discharge was 5.20 cfs during WY 2014; and maximum annual discharge of 6.33 cfs during in WY 2008 (USGS, 2016).

The WY 2015 mean annual discharge for Big Springs North Channel was 3.40 cfs, approximately 92 percent of the period of record mean annual discharge of 3.71 cfs. USGS reports the following statistics for the period of record WY 2006 through 2015: mean annual discharge of 3.71 cfs; minimum annual discharge of 3.40 cfs during WY 2015; and maximum annual discharge of 4.00 cfs reported in WY 2006 (USGS, 2016).

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 synoptic discharge study work plan 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).

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-six established precipitation stations located on the valley floor and margins of 9 hydrographic basins in

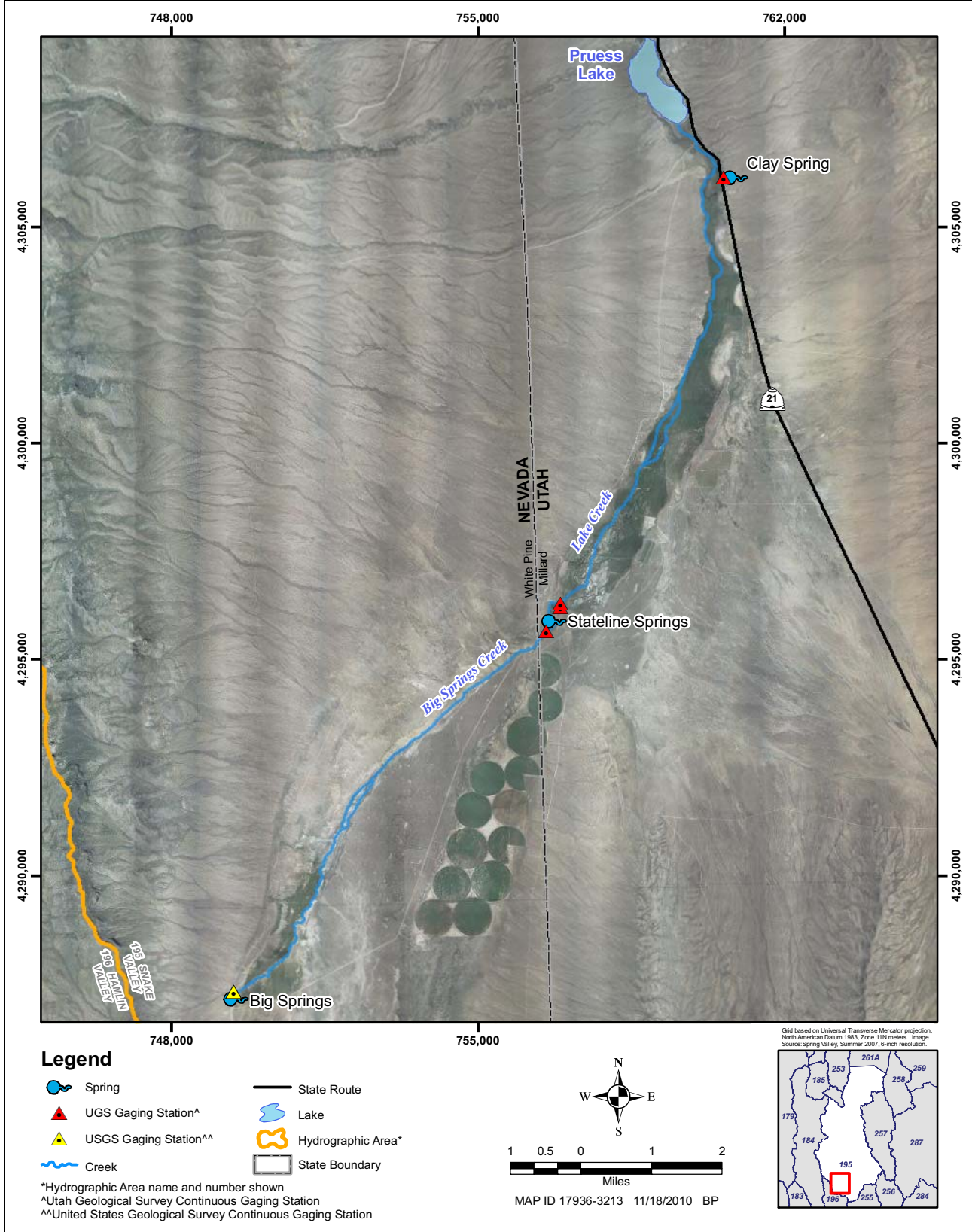


Figure 2-5
Big Springs Synoptic-Discharge Study Area, Snake Valley



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, 2016), the National Resource Conservation Service (NRCS) (USDA, 2016), the Nevada Division of Water Resources (NDWR, 2016), the USGS (2016), and the Nevada Climate-Ecohydrological Assessment Network (NevCAN) project (WRCC, 2016). The precipitation stations are listed in [Table 2-5](#) and presented on [Figure 2-6](#).

Reported monthly data collected from the stations in CY 2015 are presented in [Appendix E](#). Reported CY 2015 precipitation data and period of record statistics for data collected by the NDWR at high-altitude stations are also presented in [Appendix E](#). CY 2015 data collected at the USGS high-altitude stations were unavailable at the time of report publication. USGS data from this network will be available through the NWIS at <http://waterdata.usgs.gov/nv/nwis/rt>.

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 will 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 2-5
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	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	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
USGS	RP1840401	Mount Washington	4,309,377	732,764	10,440	Snake Range	NV	Physical	BG	USGS
USGS	RP1840402	Cave Mountain	4,337,545	706,107	10,650	Schell Creek Range	NV	Physical	BG	USGS

Table 2-5
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)						
USGS	RP1950401	Unnamed Peak Northwest of Mount Moriah	4,355,938	737,691	9,300	Snake Range	NV	Physical	BG	USGS
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
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



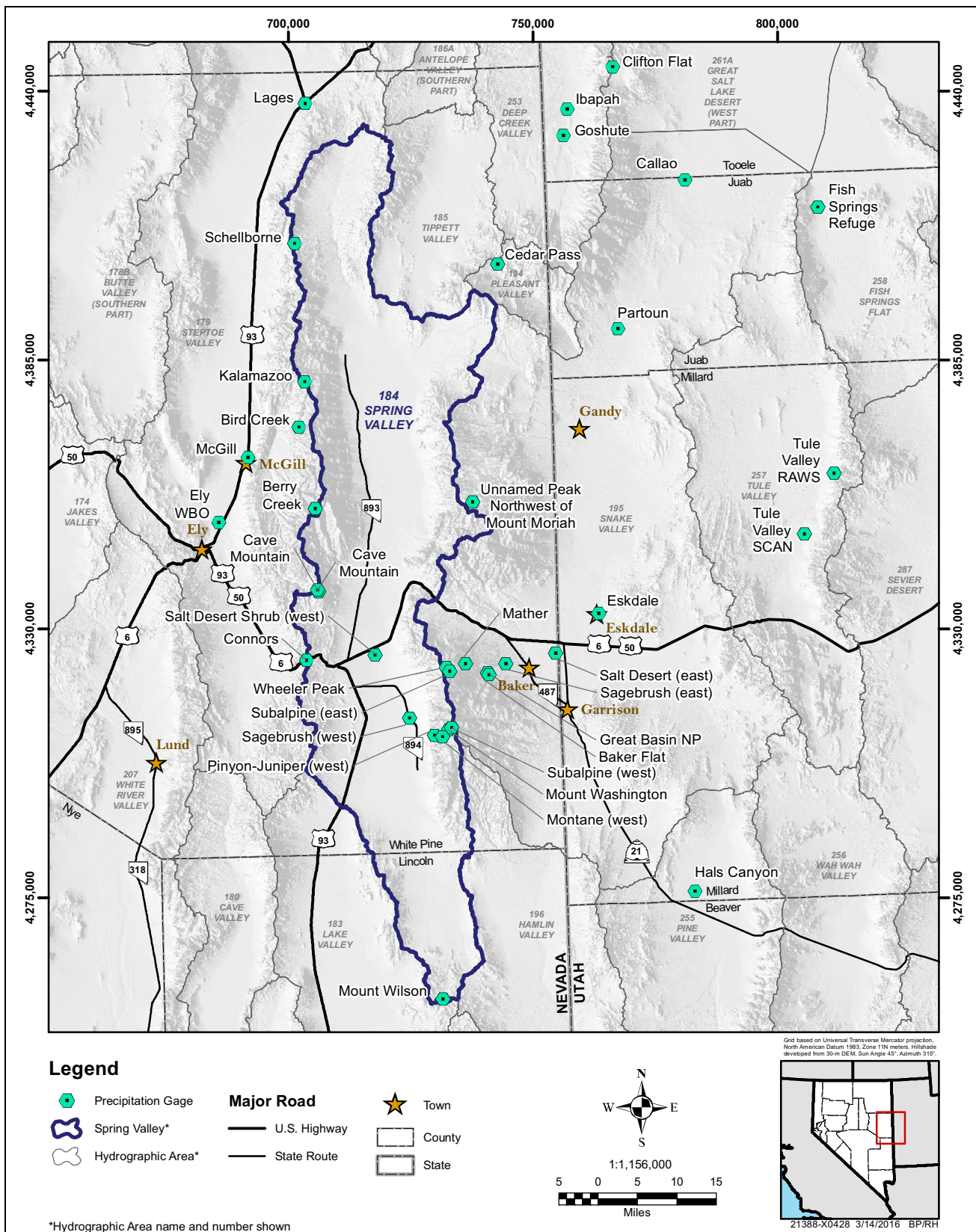


Figure 2-6
Precipitation Station Locations



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3.0 ANTICIPATED 2016 SNWA SV3M PLAN ACTIVITIES

SNWA will continue to work with NSE and TRP participants to implement the SV3M Plan. Anticipated SV3M Plan activities in 2016 are summarized below.

- Continue to collect required quarterly and continuous water-level measurements at specified locations throughout 2016. Data will be reported quarterly to the other TRP members through the SNWA data-exchange web site. Data will be submitted to NSE in an approved electronic format and included in the annual data report to be submitted in March 2017.
- 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
184W101	184 N09 E68 11BDCA1	1,749	6,190.90	1/6/2015	487.01	S	T
				4/8/2015	487.24	S	T
				7/7/2015	487.53	S	T
				10/5/2015	487.76	S	T
184W103	184 N11 E66 35CCCC2	1,017	5,899.06	1/6/2015	98.75	S	T
				4/8/2015	98.75	S	T
				7/7/2015	98.76	S	T
				10/8/2015	98.96	S	T
184W105	184 N12 E66 26BDAA1	1,135	6,007.30	1/6/2015	209.70	S	T
				4/8/2015	209.72	S	T
				7/7/2015	209.82	S	T
				10/8/2015	209.98	S	T
SPR7006M ^d	184 N14 E67 14DDAC1	1,700	6,525.18	1/7/2015	773.52	S	T
				4/7/2015	773.12	S	T
				7/7/2015	773.35	S	T
				10/6/2015	773.96	S	T
SPR7008X	184 N15 E67 26CADC1	960	5,702.99	1/7/2015	13.20	S	T
				4/7/2015	13.19	S	T
				7/6/2015	13.34	S	T
				10/6/2015	14.01	S	T
SPR7005X	184 N14 E66 09ABCA2	1,350	6,397.56	1/7/2015	496.94	S	T
				4/7/2015	497.62	S	T
				7/7/2015	498.37	S	T
				10/6/2015	498.94	S	T
SPR7007X	184 N11 E68 05BCBC2	1,020	6,017.53	1/6/2015	159.63	S	T
				4/8/2015	161.34	S	T
				7/7/2015	159.16	S	T
				10/6/2015	158.10	S	T
SPR7029M	184 N16 E66 25DBCD1	260	5,876.83	1/6/2015	218.16	S	T
				4/7/2015	218.10	S	T
				7/7/2015	218.91	S	T
				10/7/2015	220.24	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
SPR7029M2	184 N16 E66 25DBCA1	423	5,876.65	1/6/2015	217.84	S	T
				4/7/2015	217.87	S	T
				7/7/2015	218.60	S	T
				10/7/2015	220.01	S	T
SPR7030M	184 N16 E67 32ABAB1	98	5,617.15	1/6/2015	-27.92	S	G
				4/7/2015	-27.95	S	G
				7/7/2015	-27.62	S	G
				10/7/2015	-26.66	S	G
SPR7030M2	184 N16 E67 32ABAB2	236	5,617.79	1/6/2015	-36.51	S	G
				2/18/2015	-37.29	S	G
				4/7/2015	-36.16	S	G
				7/7/2015	-35.88	S	G
				10/7/2015	-35.28	S	G
383704114225001 ^d	184 N09 E68 30AAAB1	679	6,002.52	1/6/2015	224.93	S	T
				2/18/2015	224.82	S	T
				4/8/2015	224.92	S	T
				7/7/2015	224.78	S	T
				10/5/2015	224.88	S	T
384831114314301 ^d	184 N11 E66 23AB 1	102	5,842.94	1/6/2015	47.73	S	T
				2/18/2015	47.69	S	T
				4/8/2015	47.73	S	T
				7/7/2015	47.79	S	T
				10/8/2015	47.94	S	T
384745114224401 ^d	184 N11 E68 19DCDC1	200	5,900.18	1/6/2015	100.68	S	T
				2/17/2015	100.78	S	T
				4/8/2015	100.90	S	T
				7/7/2015	101.08	S	T
				10/6/2015	101.32	S	T
390352114305401 ^d	184 N14 E66 24BDDD1	160	5,846.04	1/7/2015	38.50	S	T
				4/7/2015	38.45	S	T
				7/7/2015	38.42	S	T
				10/6/2015	38.56	S	T
390803114251001 ^d	184 N15 E67 26CA 1	200	5,727.21	1/7/2015	40.25	S	T
				4/7/2015	40.38	S	T
				7/6/2015	40.48	S	T
				10/6/2015	40.53	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
Robison Crooked Well ^d	184 N19 E66 11B 1	400	5,698.43	1/6/2015	42.09	S	T
				4/7/2015	44.75	S	T
				7/7/2015	44.91	S	T
				10/7/2015	45.60	S	T
383023114115302 ^d	196 N08 E69 35DC 2	435	5,837.67	1/6/2015	177.71	S	T
				4/8/2015	177.94	S	T
				7/7/2015	178.05	S	T
				10/5/2015	178.24	S	T
184W502M ^d	184 N09 E68 11BDBD1	1,799	6,189.72	1/6/2015	486.13	S	T
				2/17/2015	486.03	S	T
				4/8/2015	486.36	S	T
				7/7/2015	486.64	S	T
				10/5/2015	486.88	S	T
184W504M ^d	184 N11 E66 35CCCC1	1,020	5,900.11	1/6/2015	100.82	S	T
				2/18/2015	100.70	S	T
				4/8/2015	100.83	S	T
				7/7/2015	100.85	S	T
				10/8/2015	101.07	S	T
184W506M ^d	184 N12 E66 26BADC1	1,140	6,014.04	1/6/2015	216.37	S	T
				2/18/2015	216.30	S	T
				4/8/2015	216.38	S	T
				7/7/2015	216.47	S	T
				10/8/2015	216.61	S	T
184W508M ^d	184 N09 E67 11DBCD1	1,160	6,056.19	1/6/2015	276.89	S	T
				2/18/2015	276.75	S	T
				4/8/2015	276.75	S	T
				7/7/2015	276.72	S	T
				10/5/2015	276.77	S	T
SPR7007M ^d	184 N11 E68 05BCBC1	1,020	6,017.73	1/6/2015	159.80	S	T
				1/13/2015	160.05	S	T
				2/18/2015	160.83	S	T
				4/8/2015	161.52	S	T
				7/7/2015	159.32	S	T
				10/6/2015	158.32	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
SPR7005M ^d	184 N14 E66 09ABCA1	1,404	6,395.68	1/7/2015	495.03	S	T
				2/18/2015	495.36	S	T
				4/7/2015	495.76	S	T
				7/7/2015	496.40	S	T
				10/6/2015	497.04	S	T
SPR7008M ^d	184 N15 E67 26CDAB1	946	5,704.86	1/7/2015	14.43	S	T
				4/7/2015	14.41	S	T
				7/6/2015	14.52	S	T
				10/6/2015	14.77	S	T
383351114180201	184 N08 E68 14A 1	495	6,184.22	1/6/2015	406.67	P	T
				4/8/2015	406.46	S	T
				7/7/2015	406.32	S	T
				10/5/2015	406.41	S	T
384310114261401	184 N10 E67 22AA 1	100	5,853.54	1/6/2015	65.93	S	T
				4/8/2015	65.98	S	T
				7/7/2015	66.03	S	T
				10/5/2015	66.18	S	T
184 N12 E66 21CD 1	184 N12 E66 21DCCB1	631	6,370.31	1/6/2015	571.10	S	T
				4/8/2015	570.62	S	T
				7/7/2015	571.04	S	T
				10/8/2015	571.40	S	T
385636114265501	184 N13 E67 33DDA 1	---	5,769.73	1/6/2015	9.41	S	T
				4/7/2015	10.26	S	T
				7/7/2015	10.11	P	T
				10/6/2015	10.37	S	T
392703114230501	184 N18 E67 01CCAA1	42	5,587.78	1/6/2015	34.51	S	T
				4/7/2015	34.82	S	T
				7/7/2015	---	---	---
				10/6/2015	34.89	S	T
184 N20 E66 13AB 1	184 N20 E66 13BADA1	296	5,774.93	1/6/2015	130.13	S	T
				4/7/2015	130.28	S	T
				7/7/2015	130.76	S	T
				10/6/2015	---	---	---
393442114231801	184 N20 E67 26ABBD1	130	5,708.77	1/6/2015	118.60	S	T
				4/7/2015	118.62	S	T
				7/7/2015	118.21	S	T
				10/6/2015	118.71	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
383325114134901	196 N08 E69 15B 1	110	5,729.98	1/6/2015	72.37	S	T
				4/8/2015	72.61	S	T
				7/7/2015	73.02	S	T
				10/5/2015	73.28	S	T
SPR7024M ^d	184 N12 E67 01CCCD1	250	5,861.10	1/6/2015	25.79	S	T
				2/18/2015	25.61	S	T
				4/7/2015	25.71	S	T
				7/7/2015	26.99	S	T
				10/6/2015	28.55	S	T
SPR7024M2 ^d	184 N12 E67 01CCCD2	699	5,863.08	1/6/2015	20.55	S	T
				2/18/2015	19.97	S	T
				4/7/2015	20.20	S	T
				7/7/2015	22.81	S	T
				10/6/2015	25.21	S	T
				10/6/2015	25.21	S	T
384112114091101 ^d	196 N09HE70 32BBA 1	700	6019.53	1/6/2015	359.32	S	T
				2/17/2015	359.41	S	T
				4/8/2015	359.66	S	T
				7/7/2015	359.56	S	T
				7/20/2015	359.74	S	T
				10/5/2015	359.87	S	T
384227114082701 ^d	195 N10 E70 28CBCB1	460	5815.18	1/6/2015	228.65	S	T
				4/8/2015	228.82	S	T
				7/7/2015	228.84	S	T
				10/5/2015	229.01	S	T

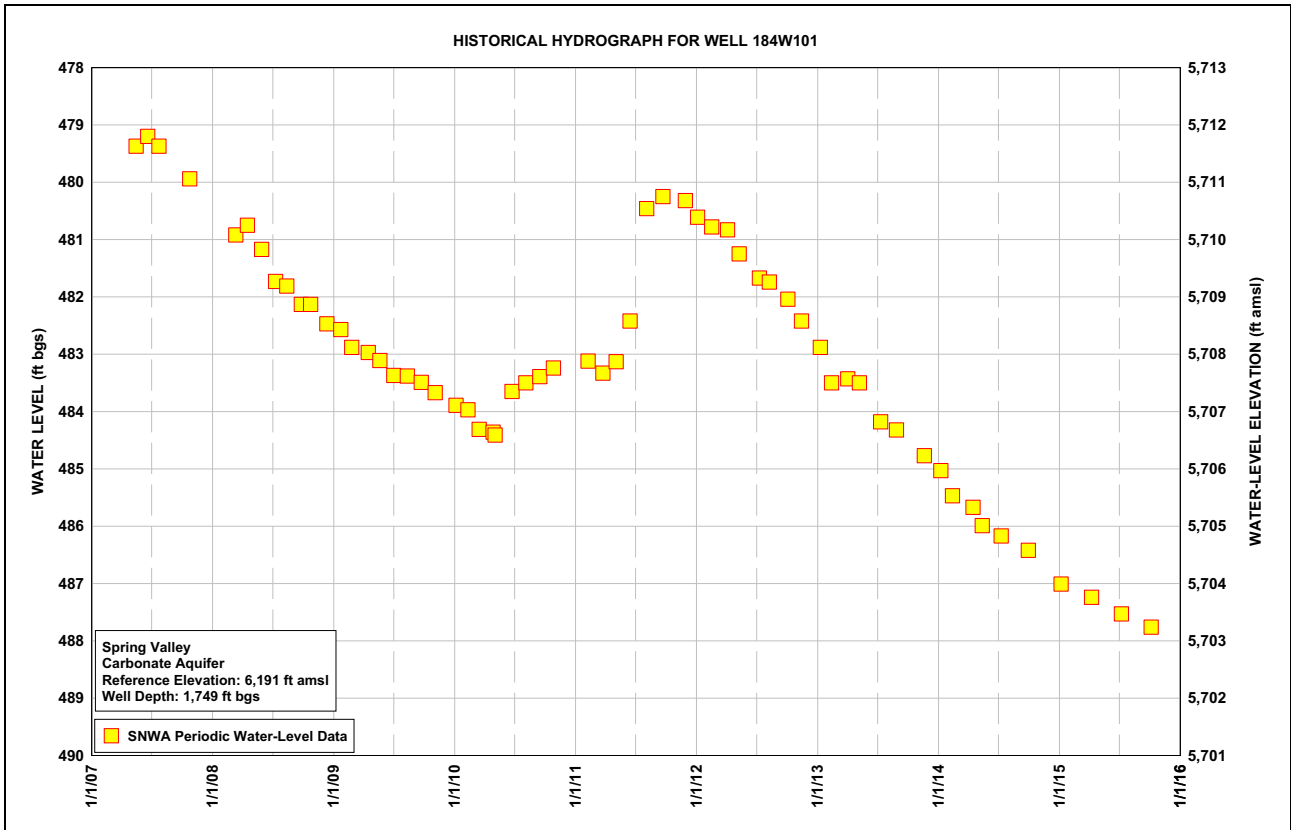
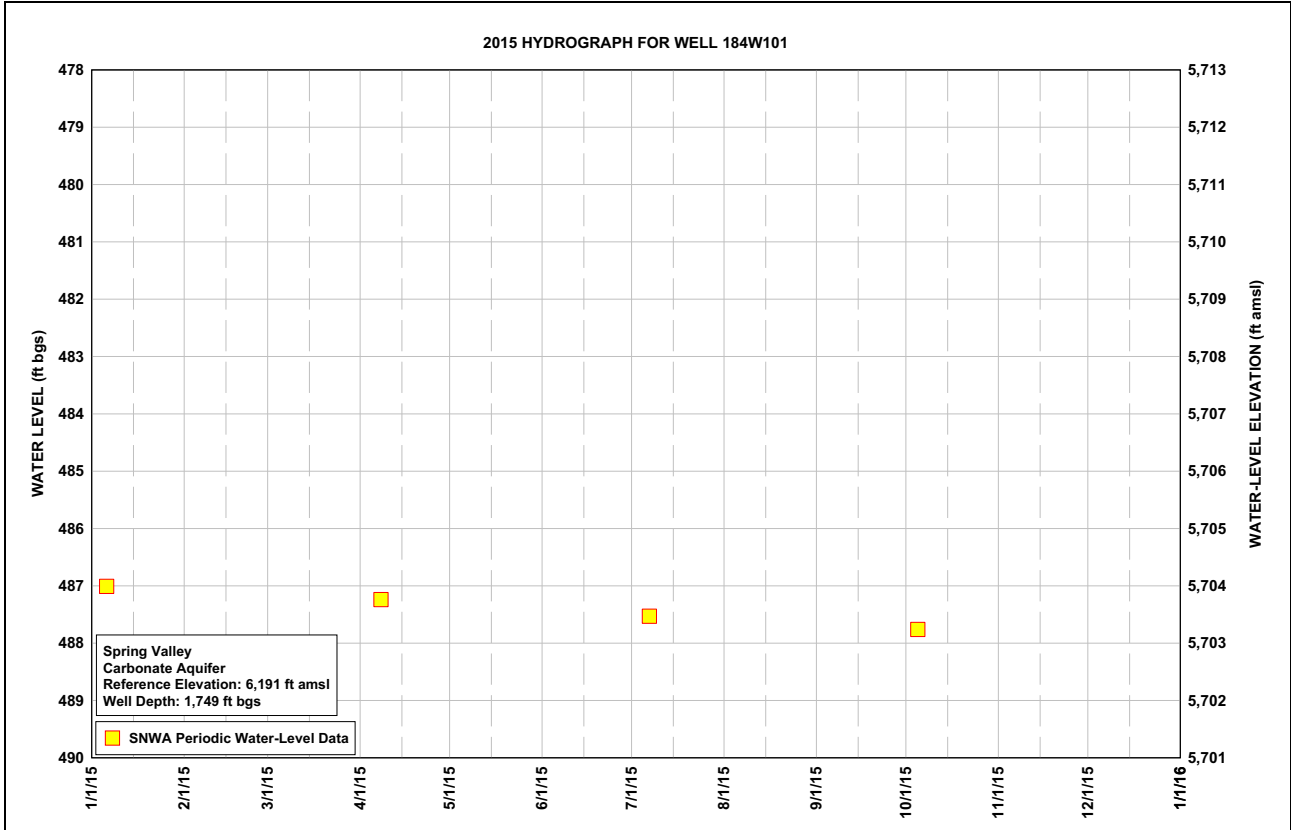
^aStation Local Numbers provided by the Nevada Department of Water Resources.

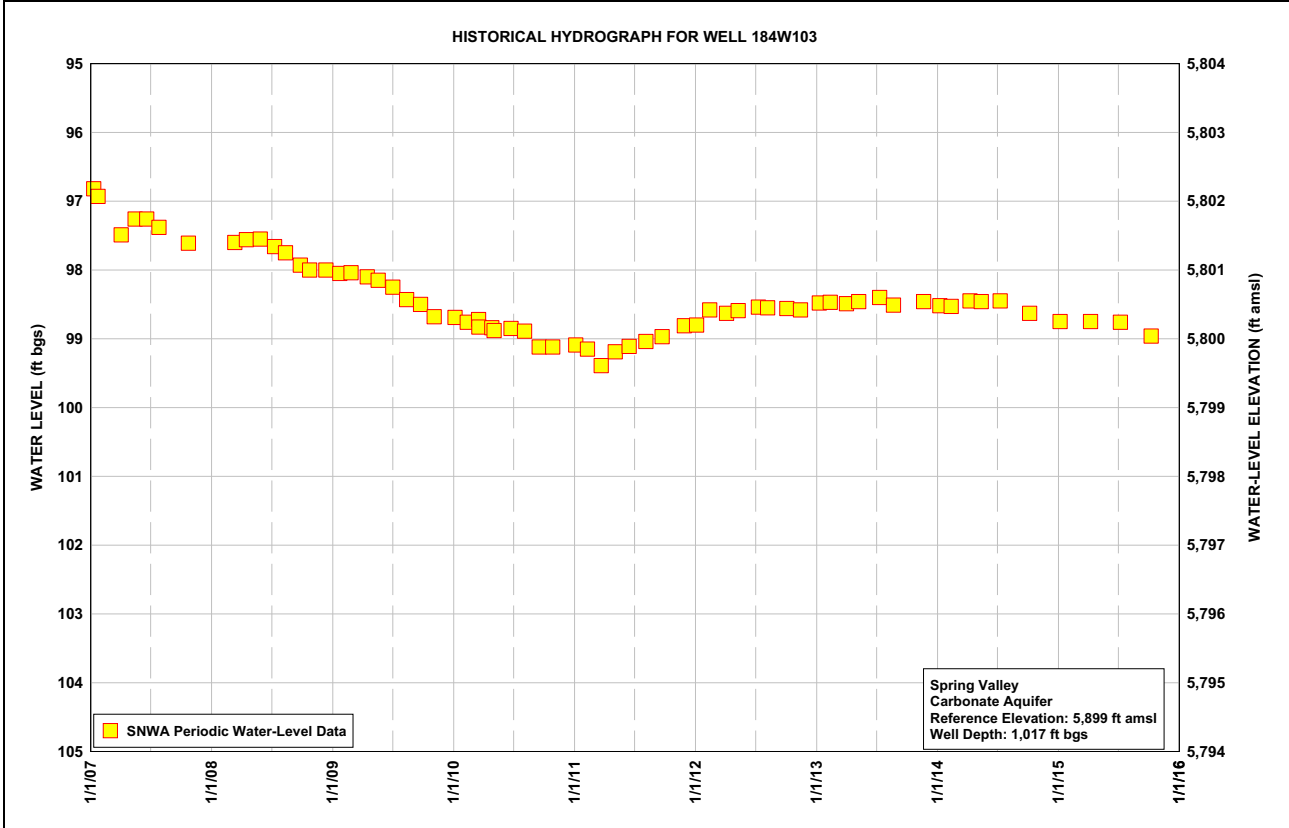
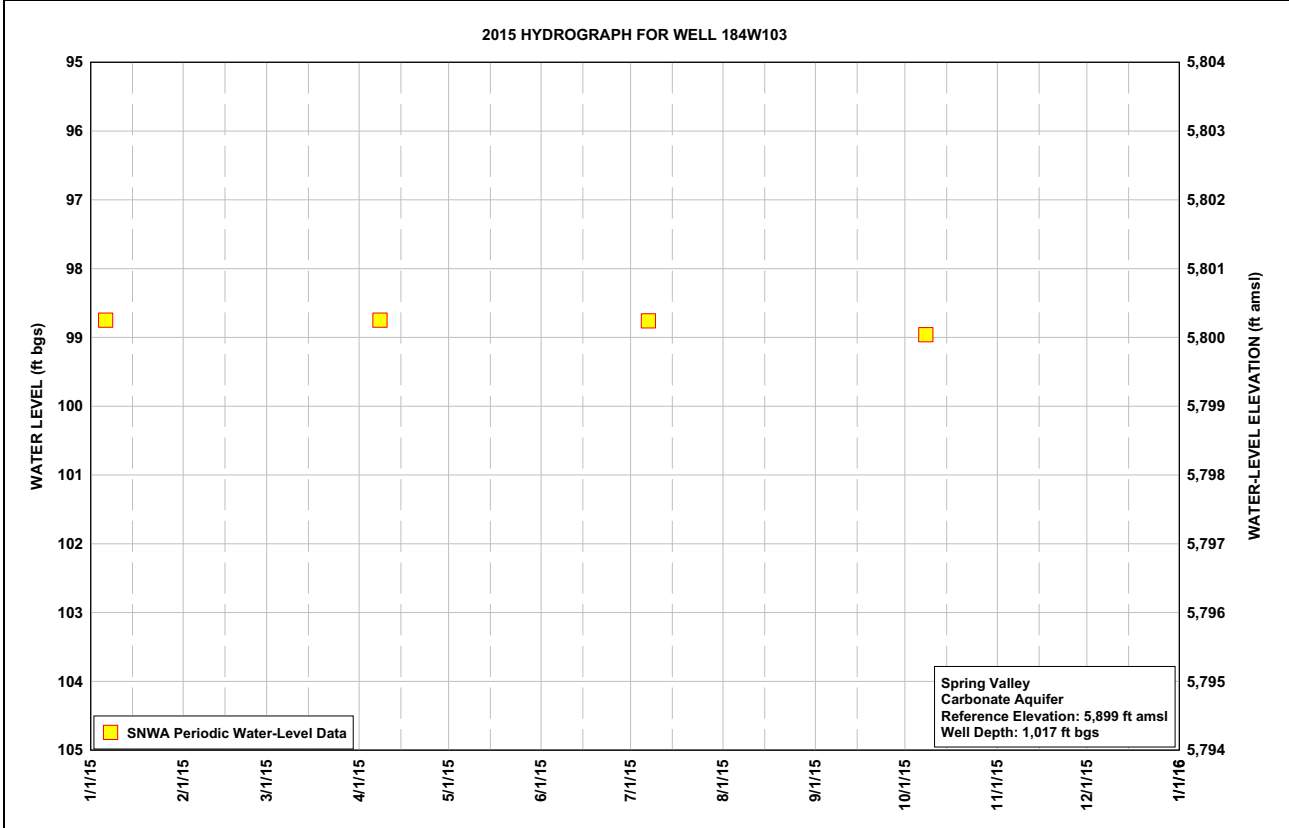
^bS = Static conditions, P = Pumping or recently pumping conditions, D = Dry

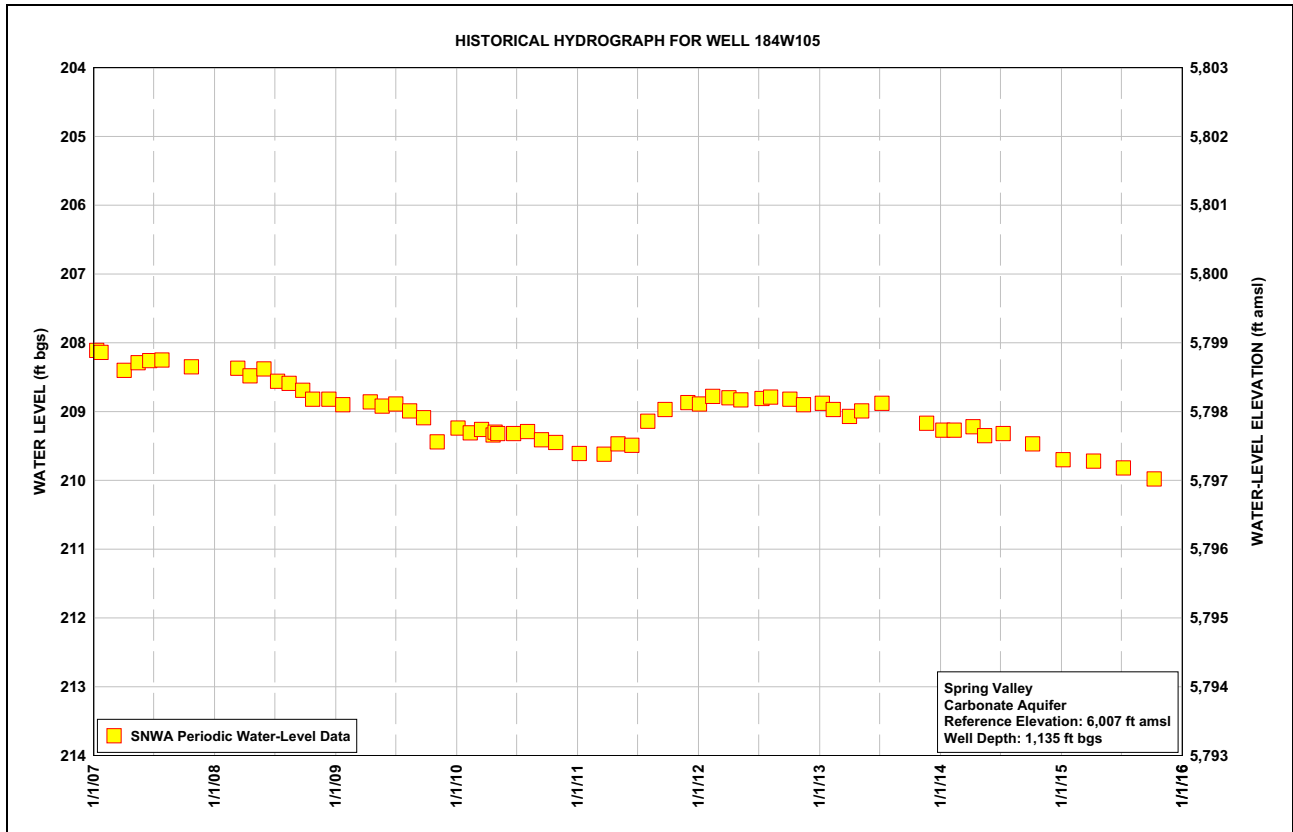
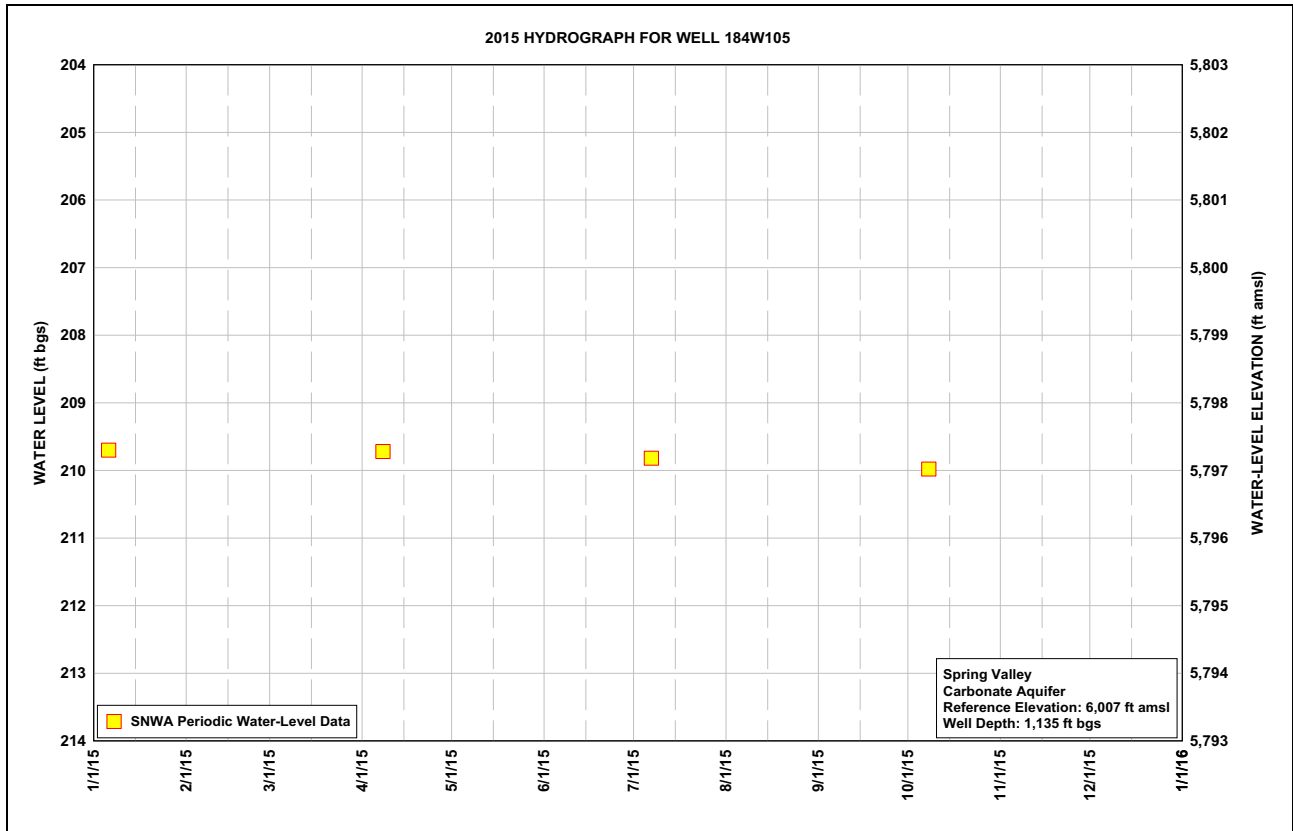
^cT = Electric tape measurement, S = Steel tape measurement, G = Pressure gage

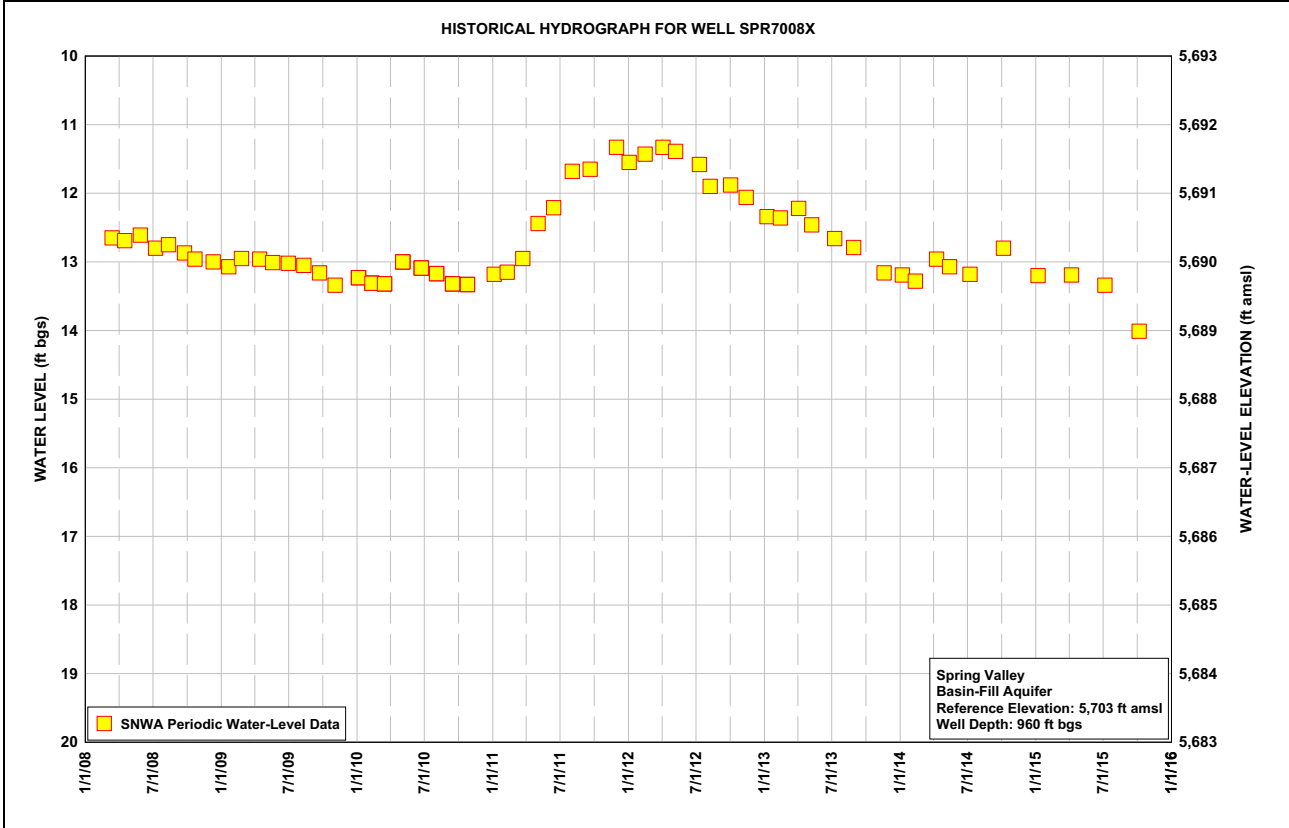
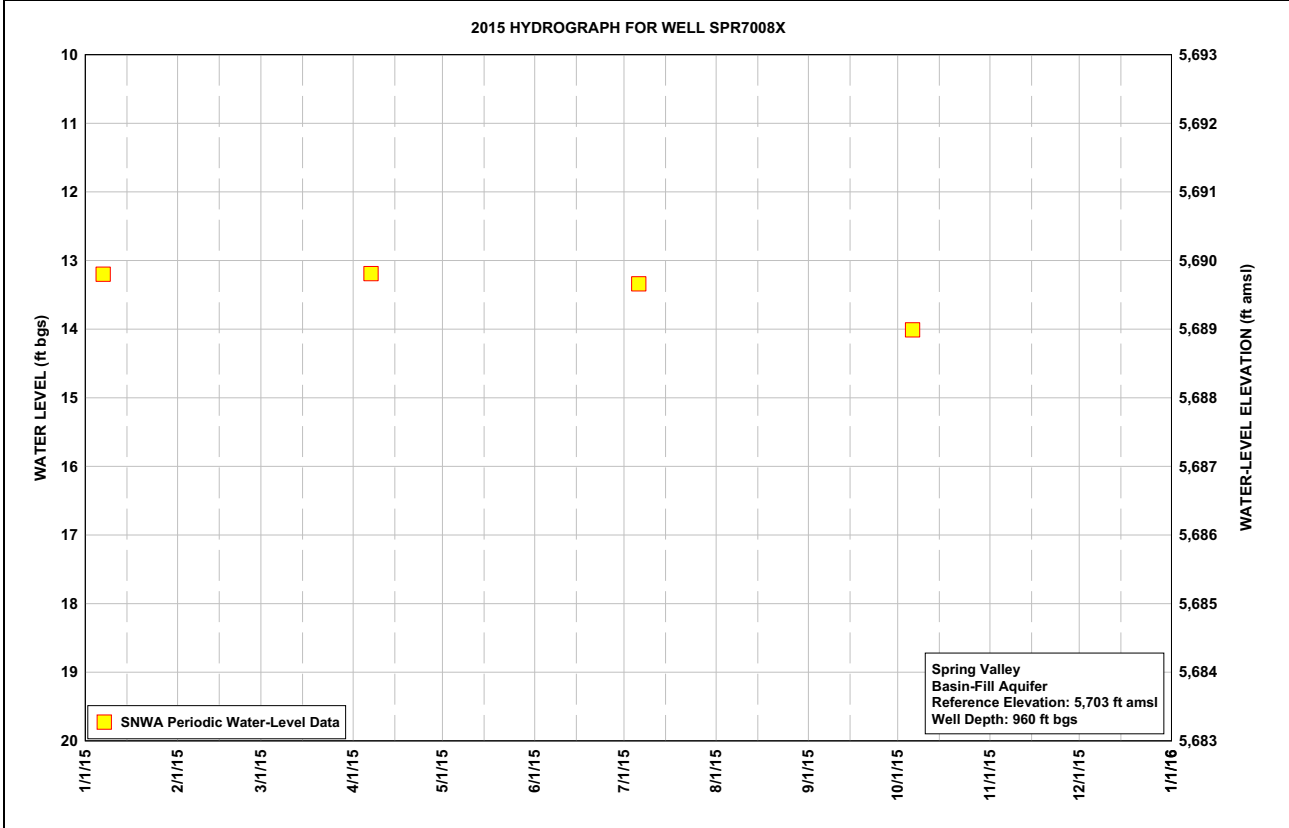
^dCurrent and historical hydrographs with periodic and continuous data are presented in [Appendix B](#).

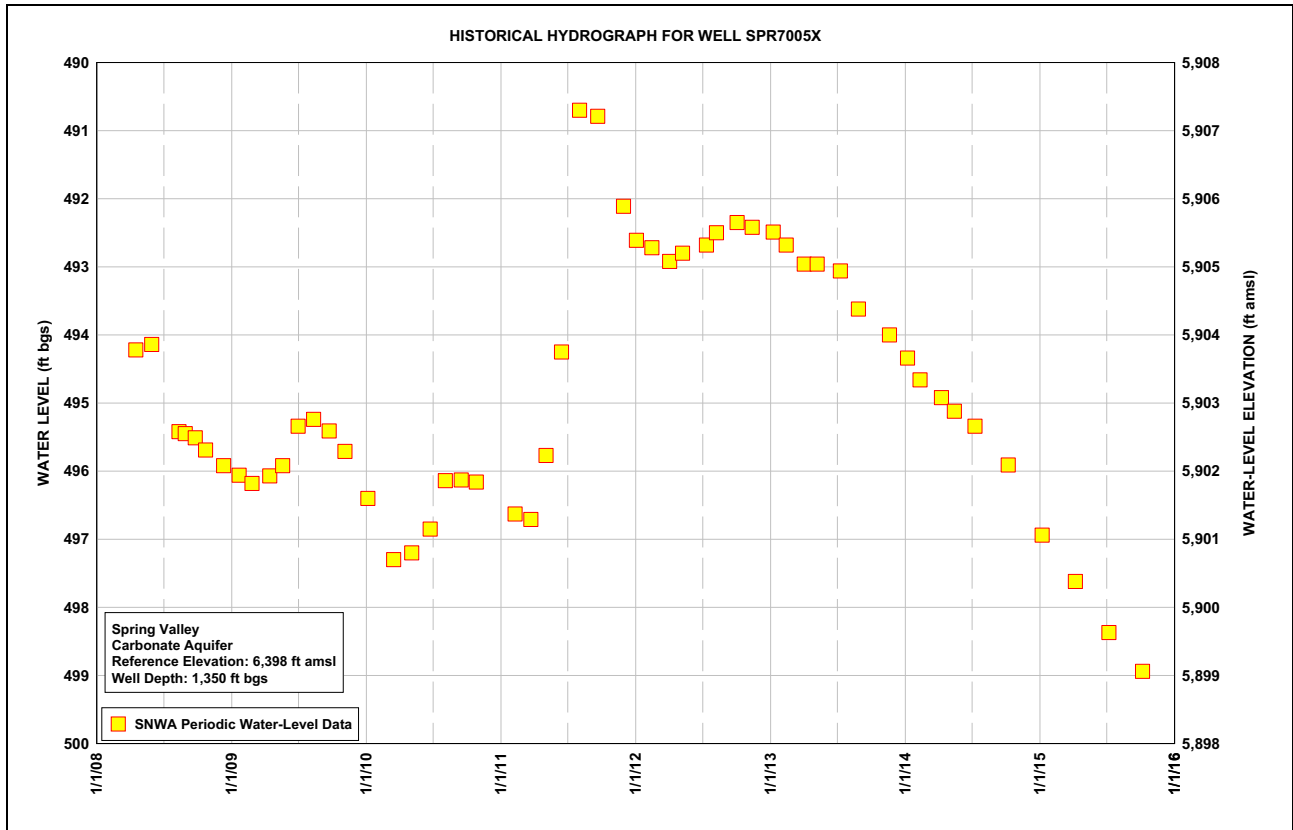
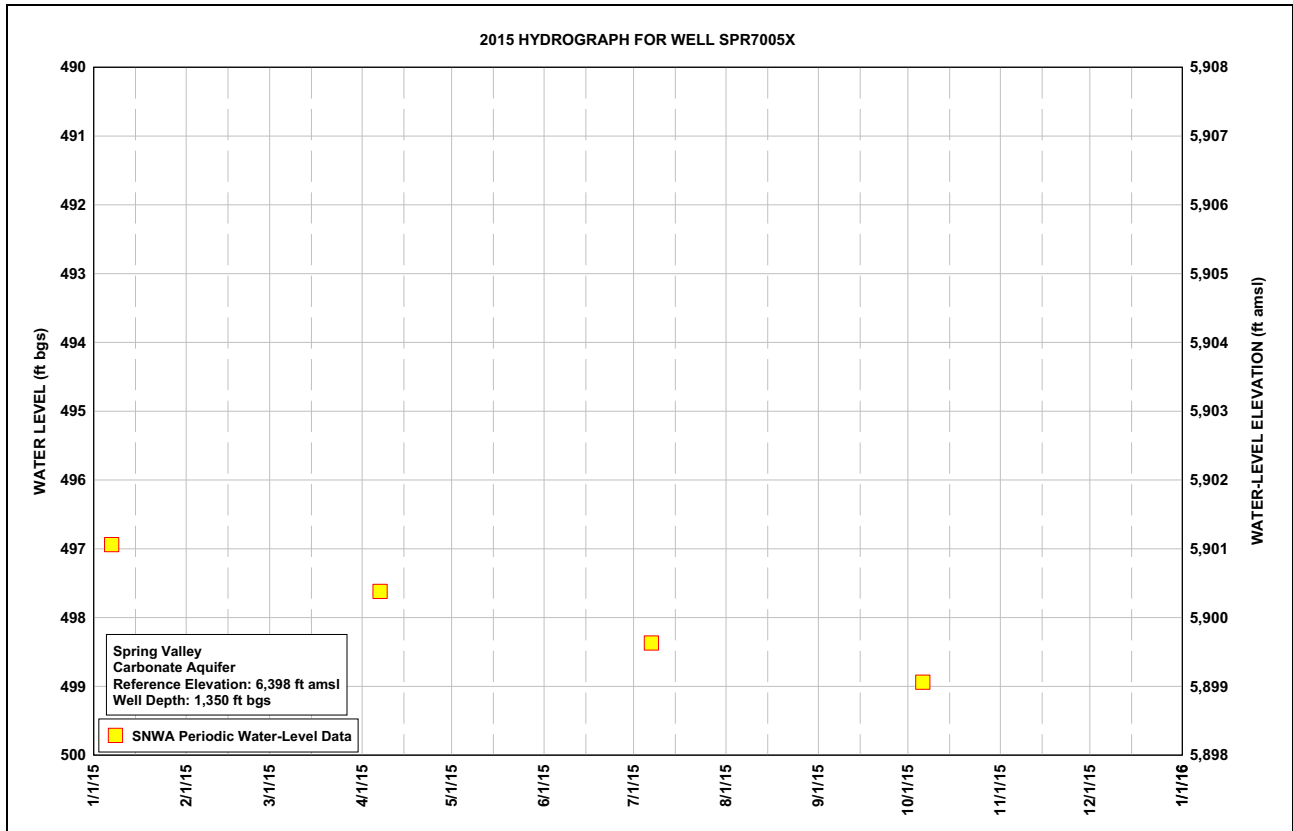
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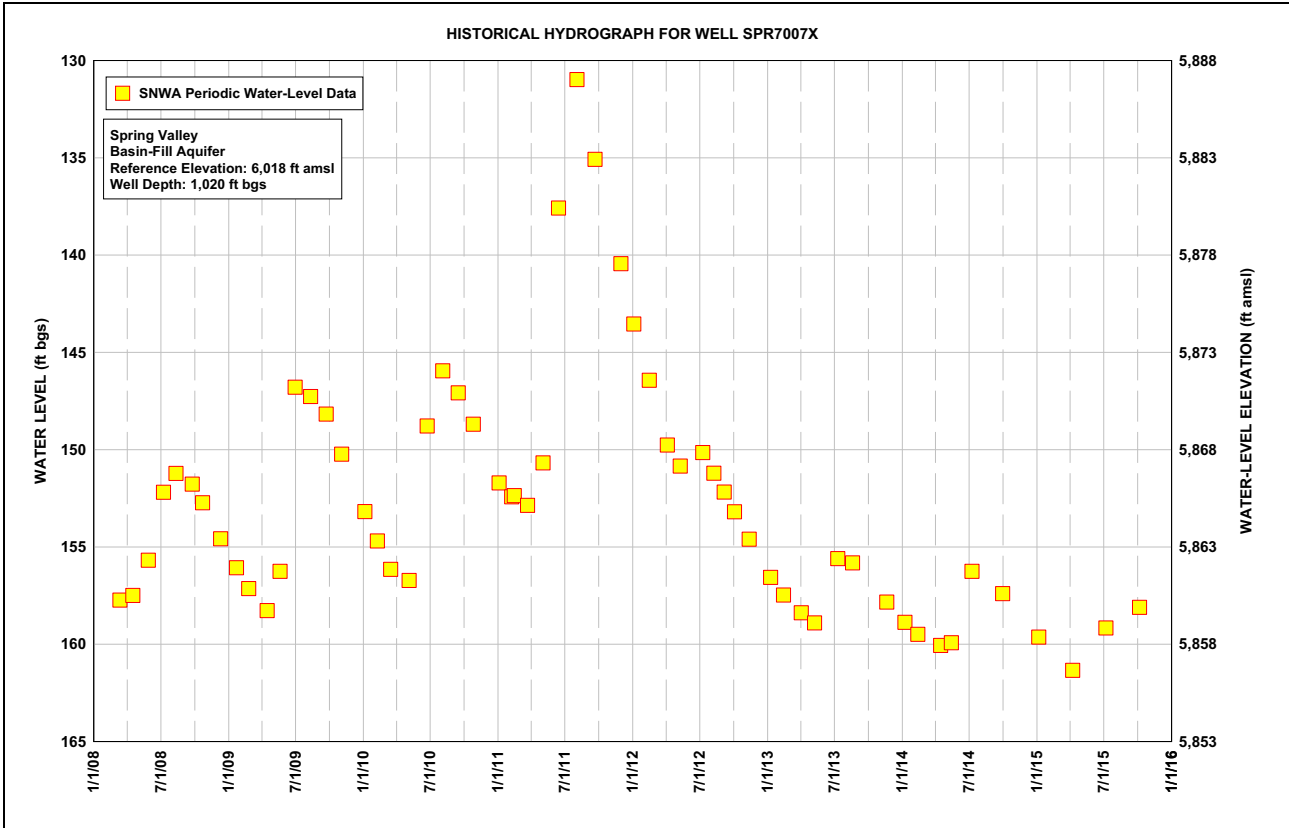
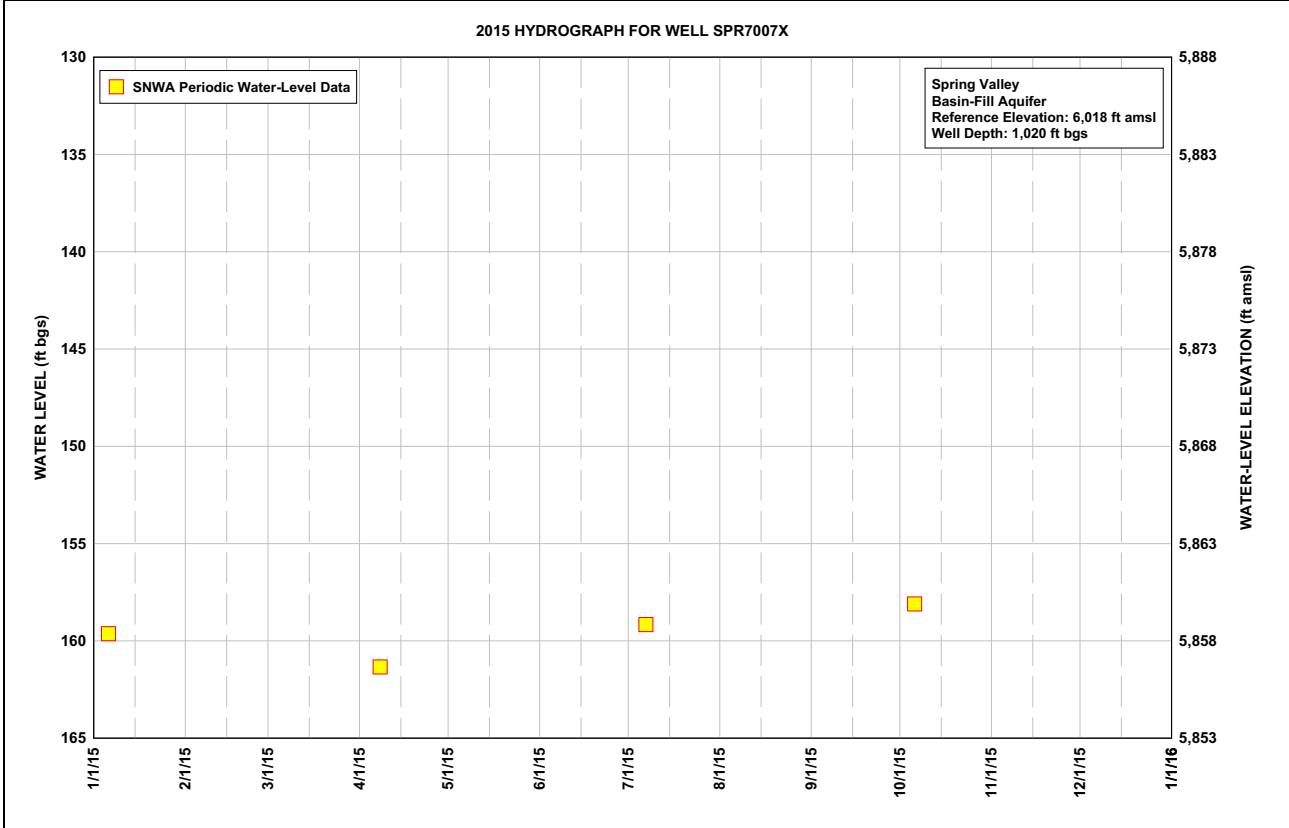


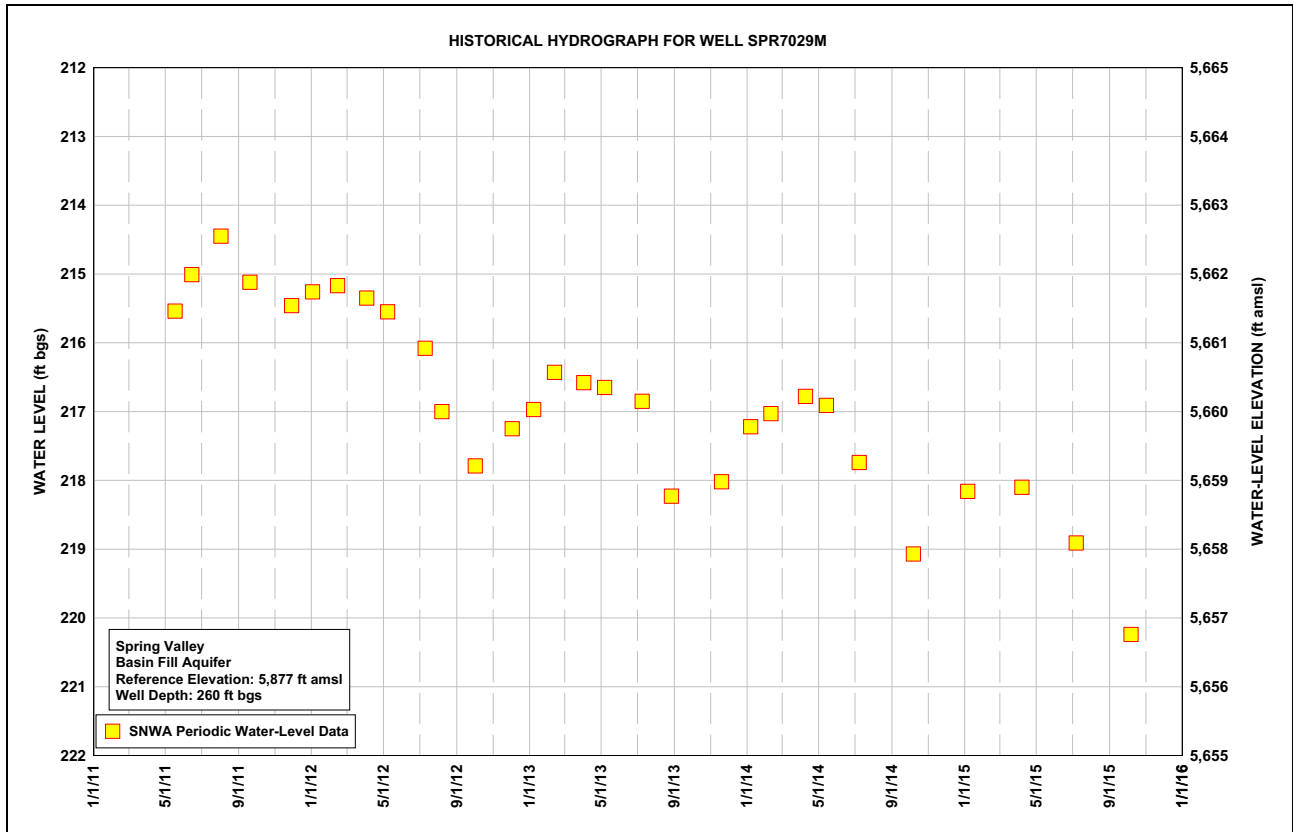
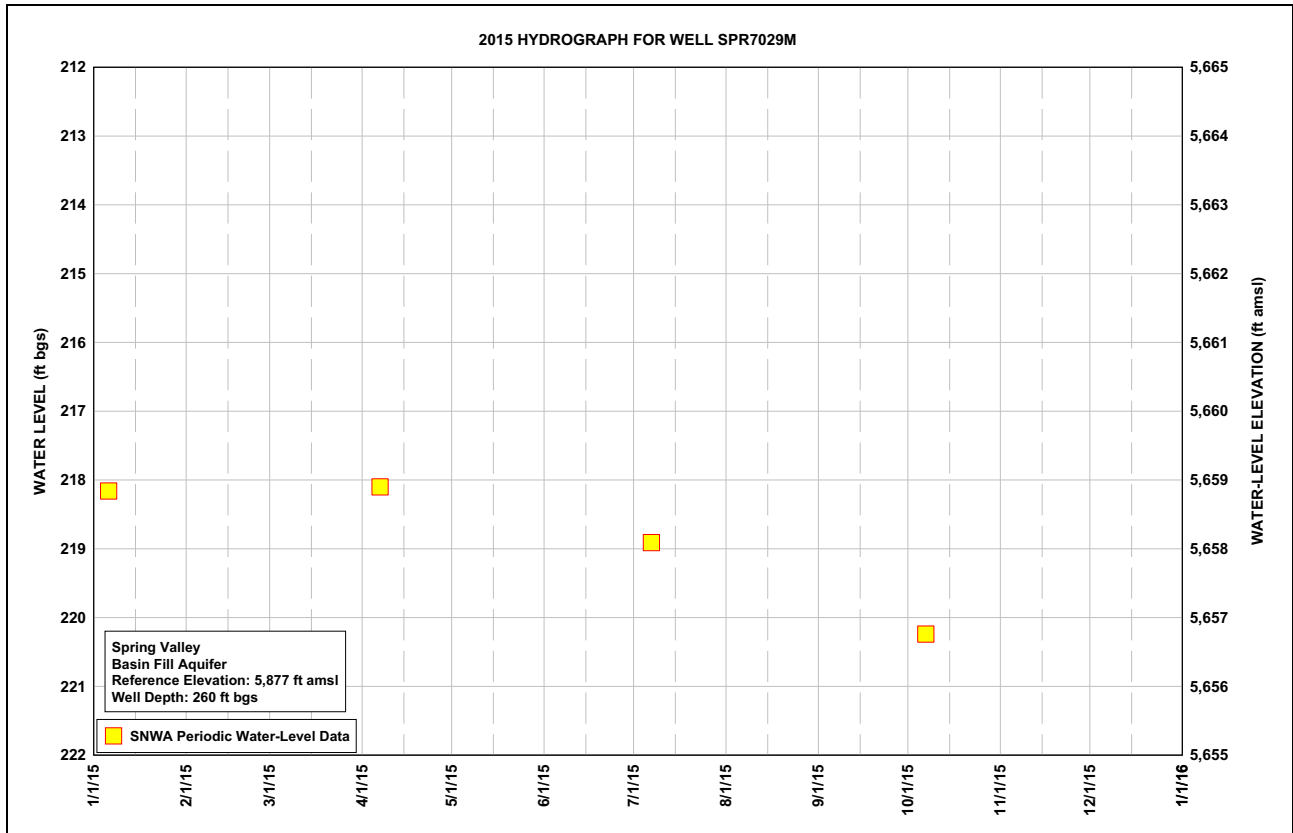


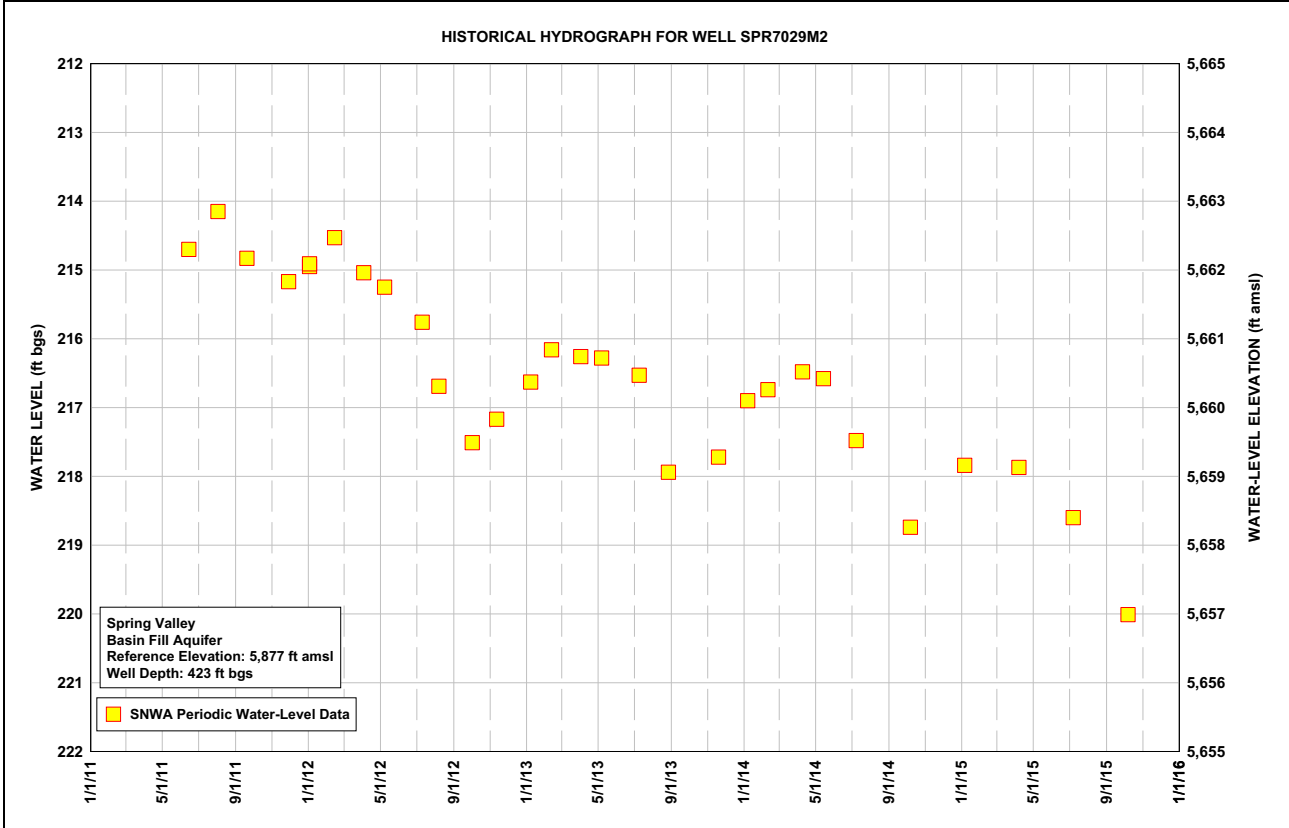
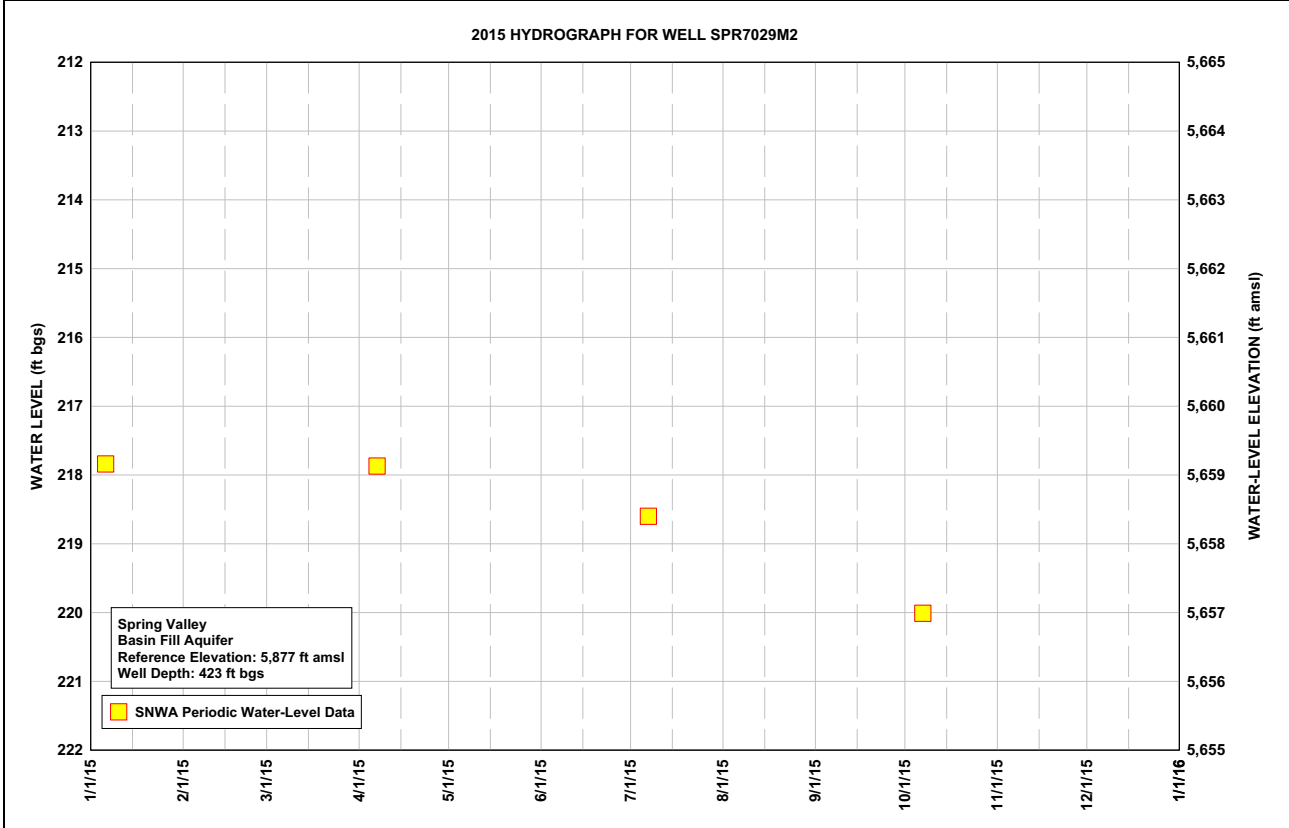


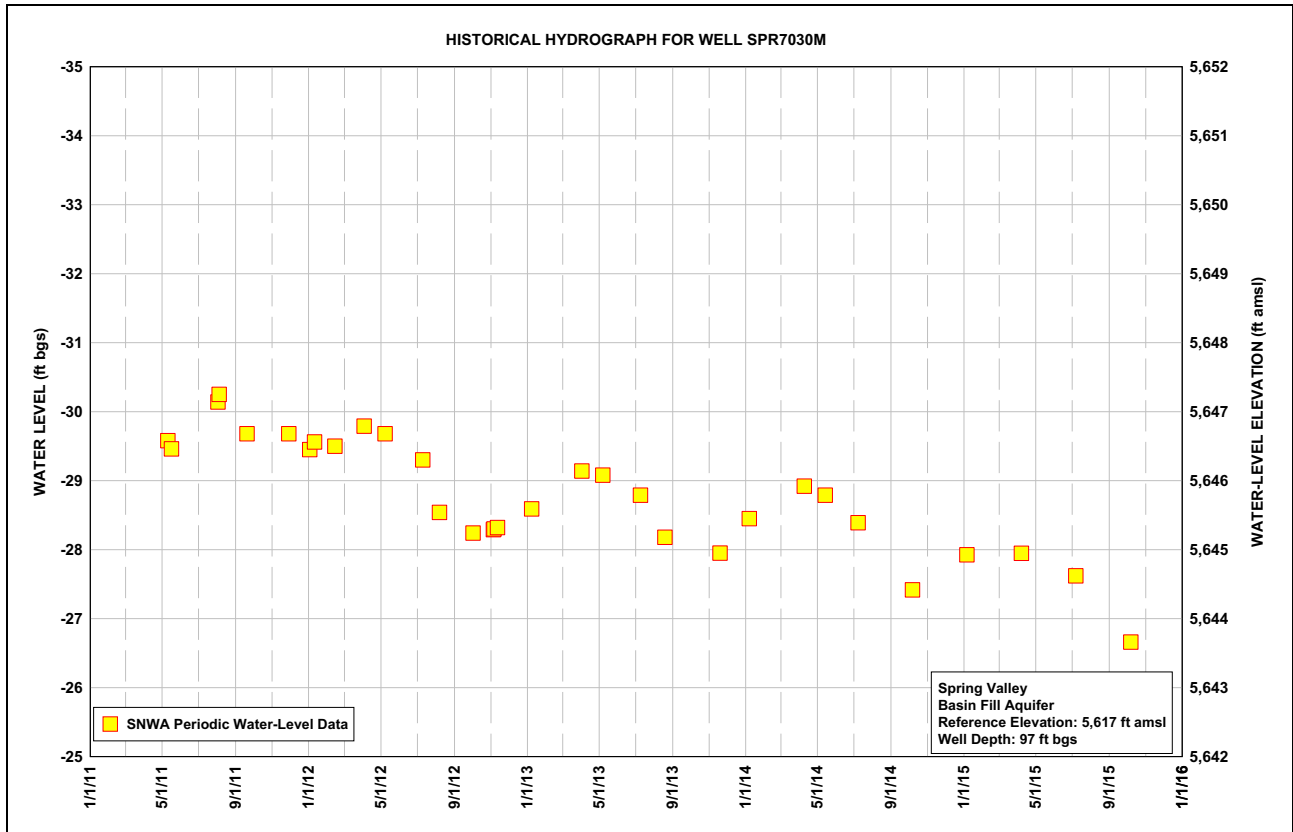
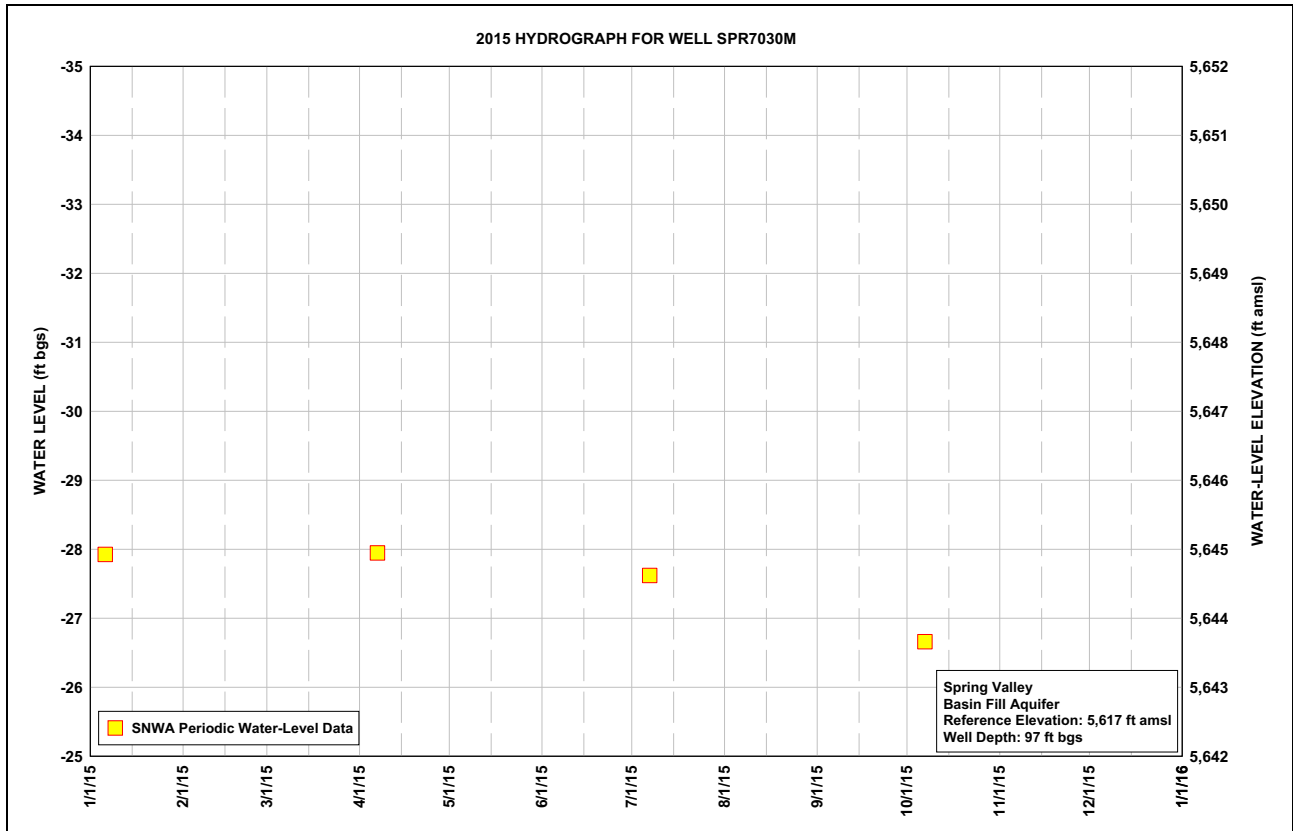


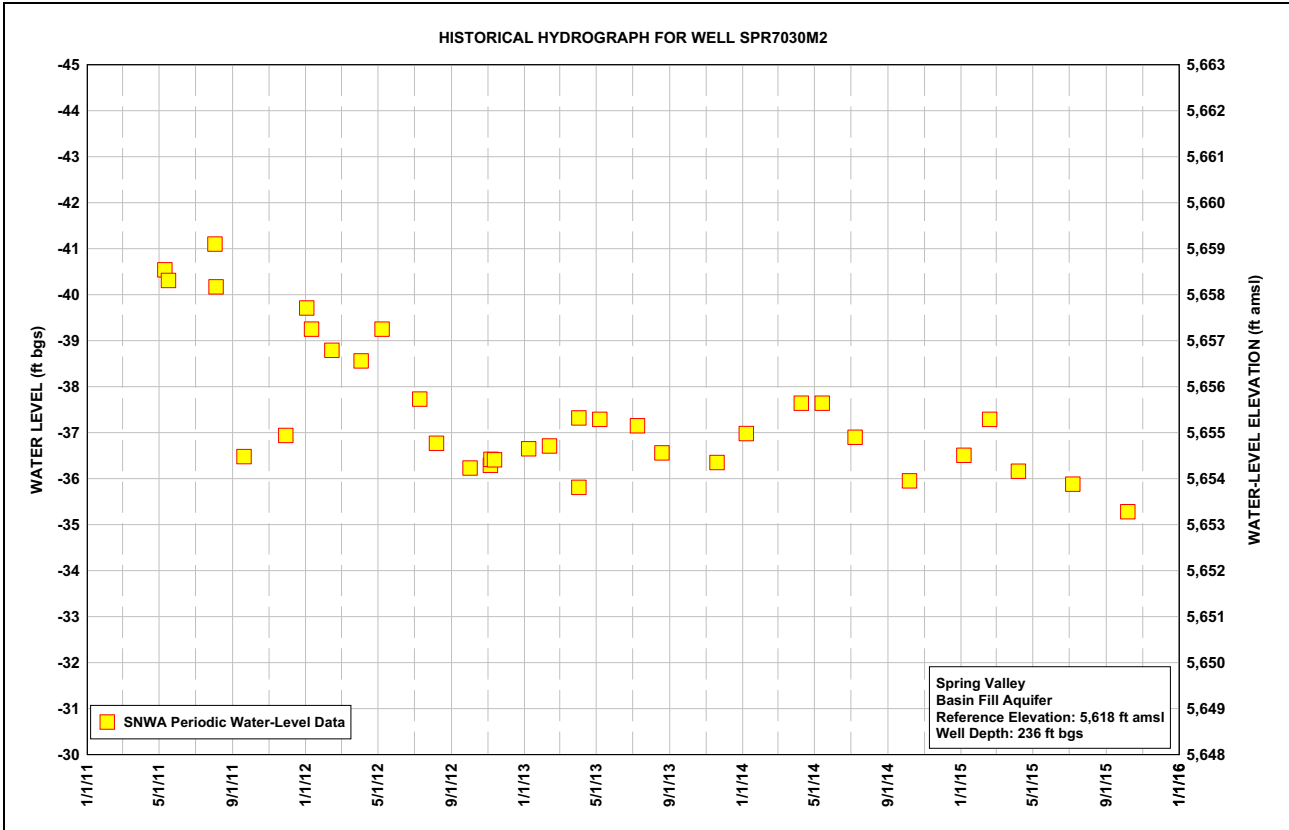
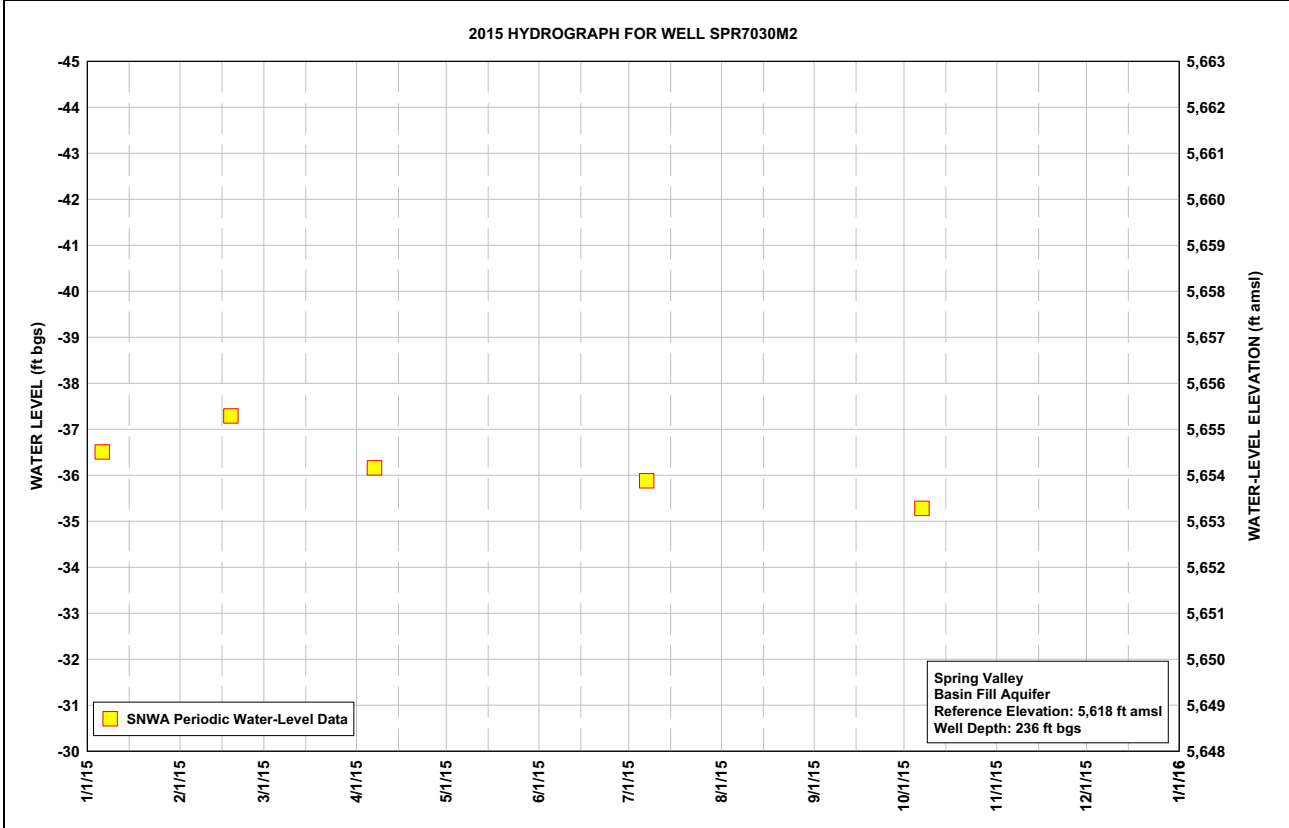


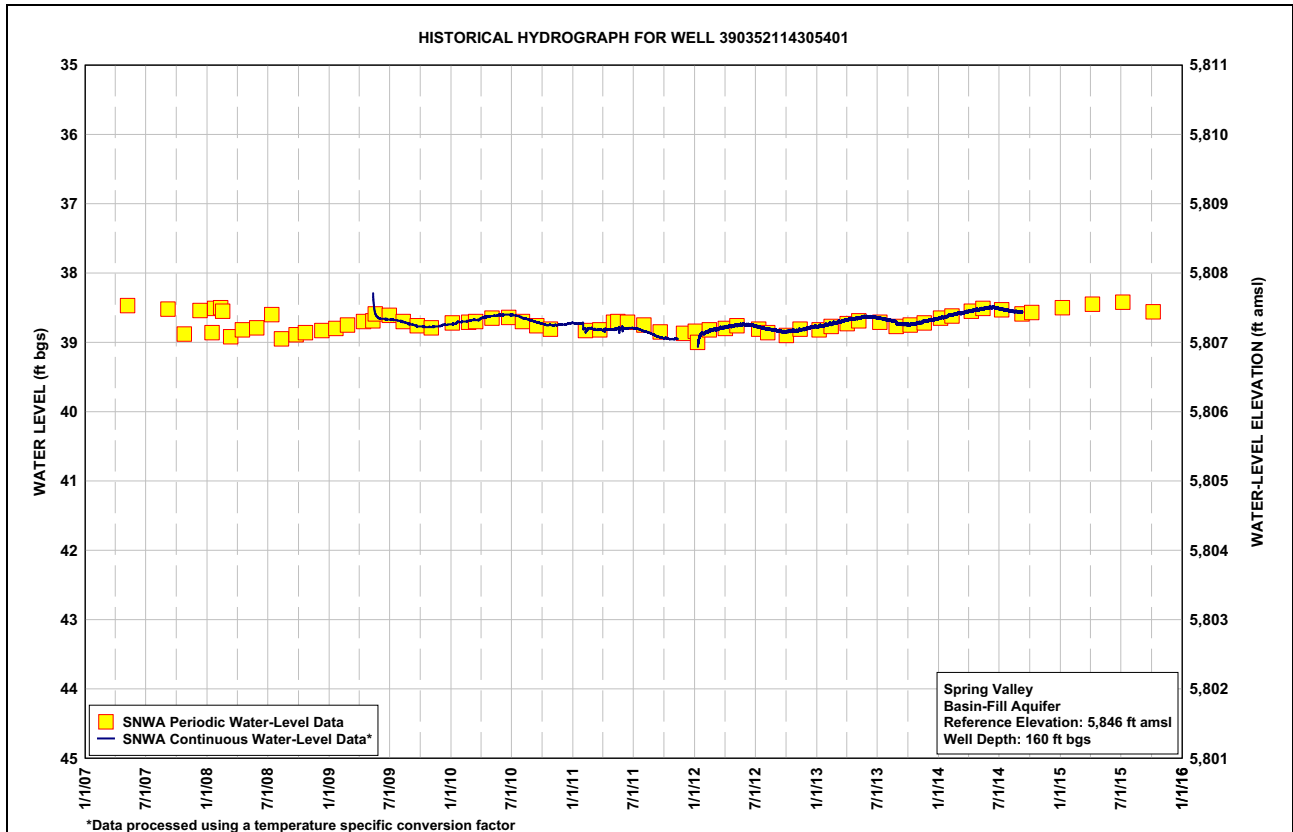
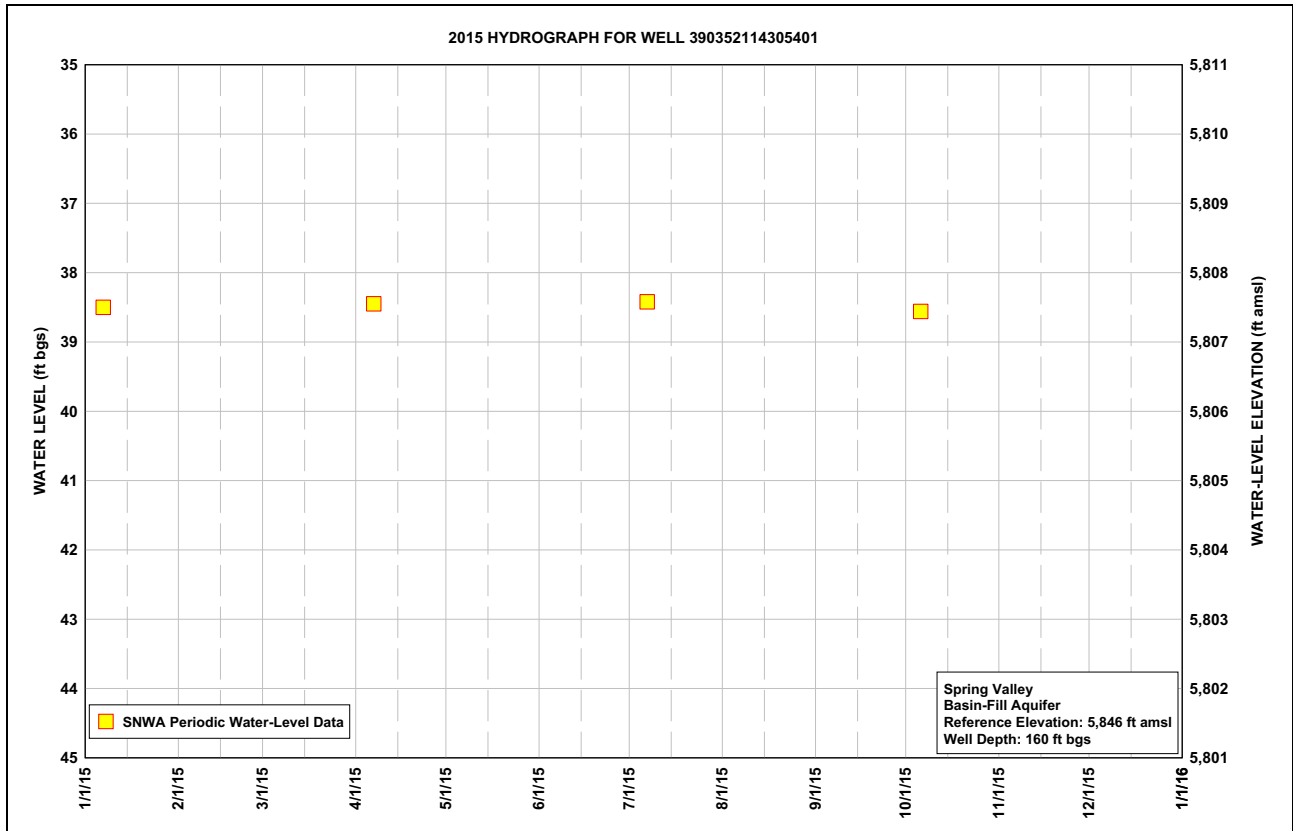


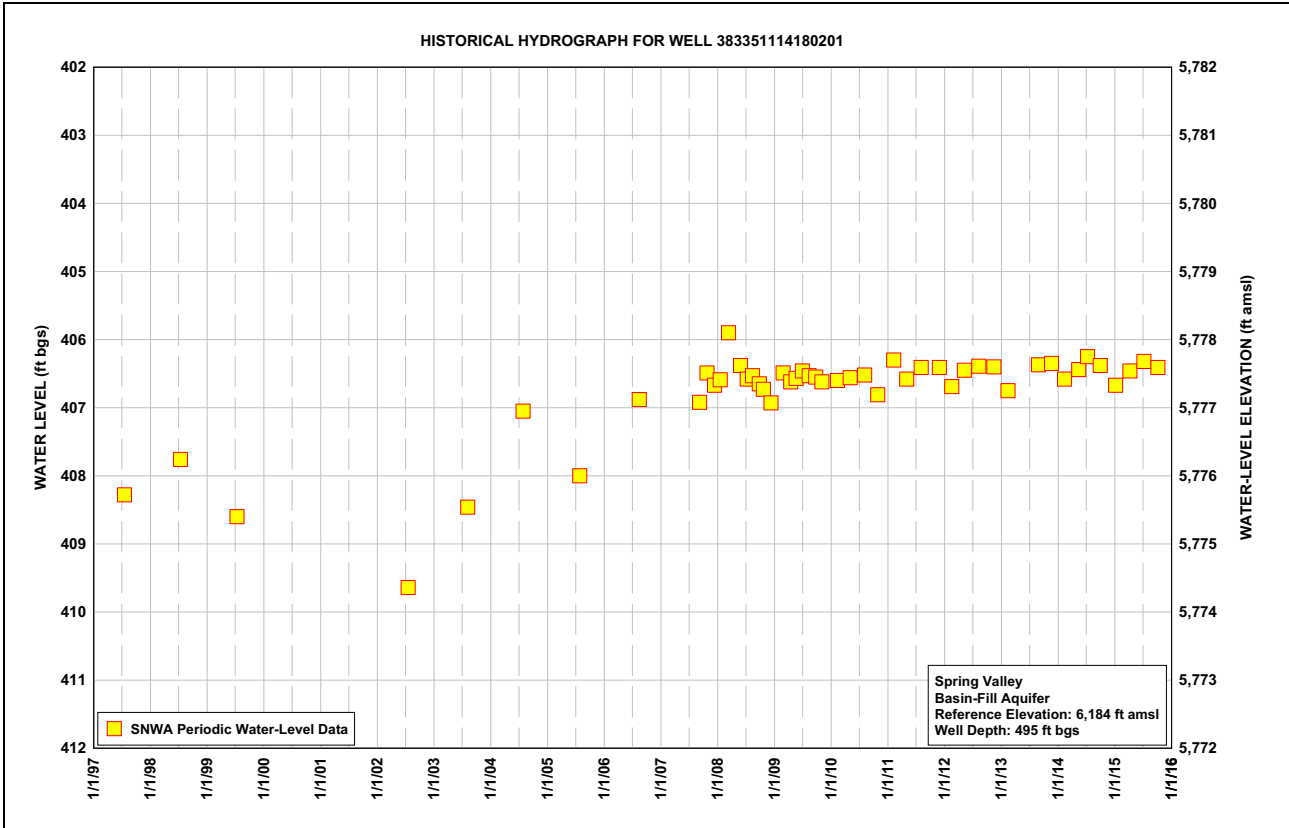
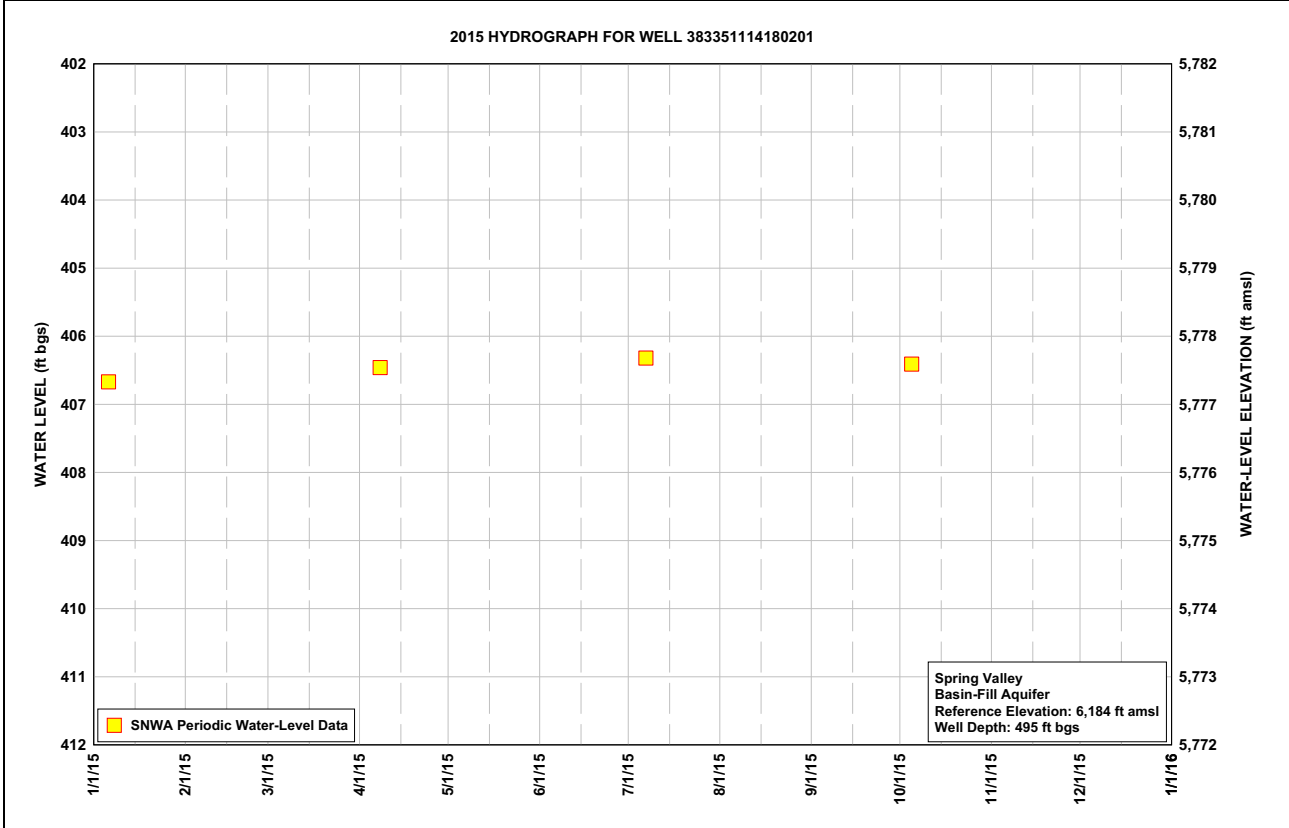


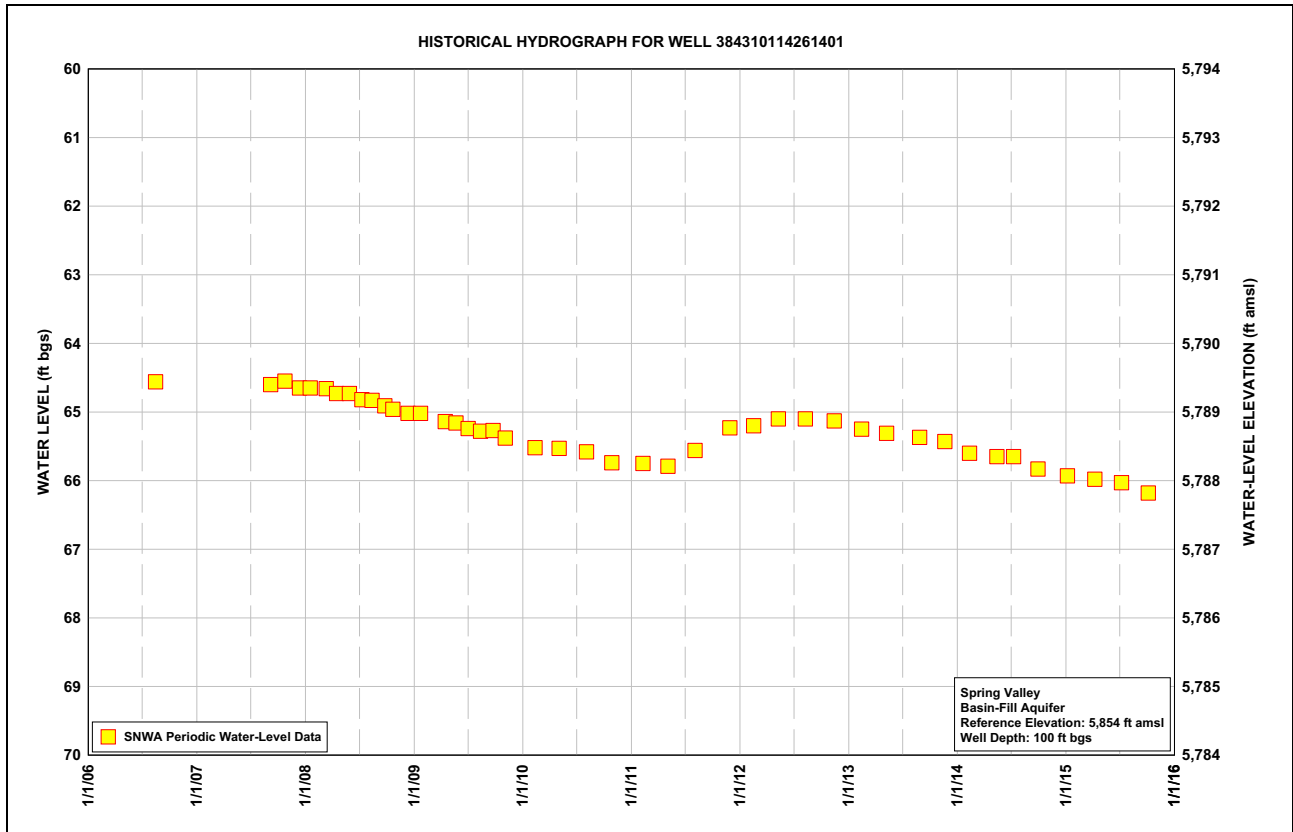
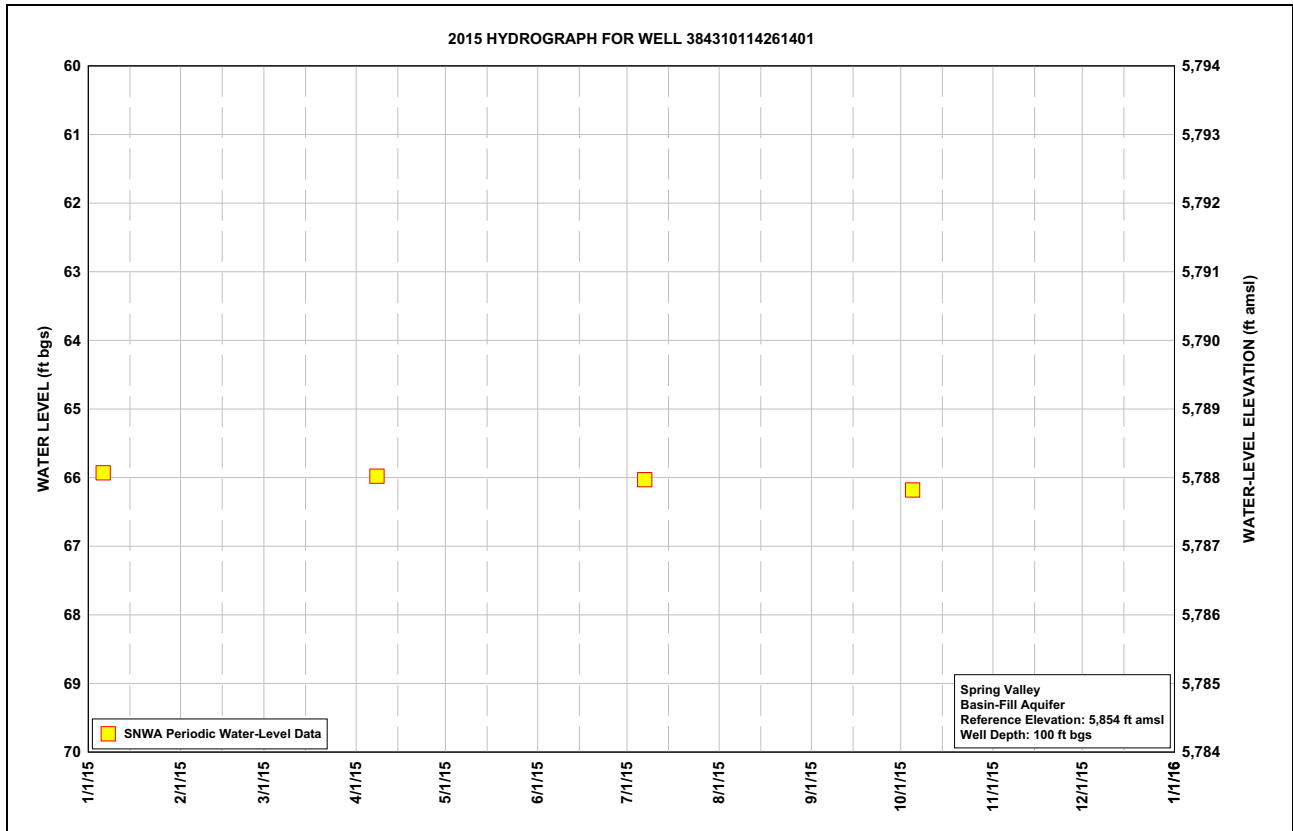


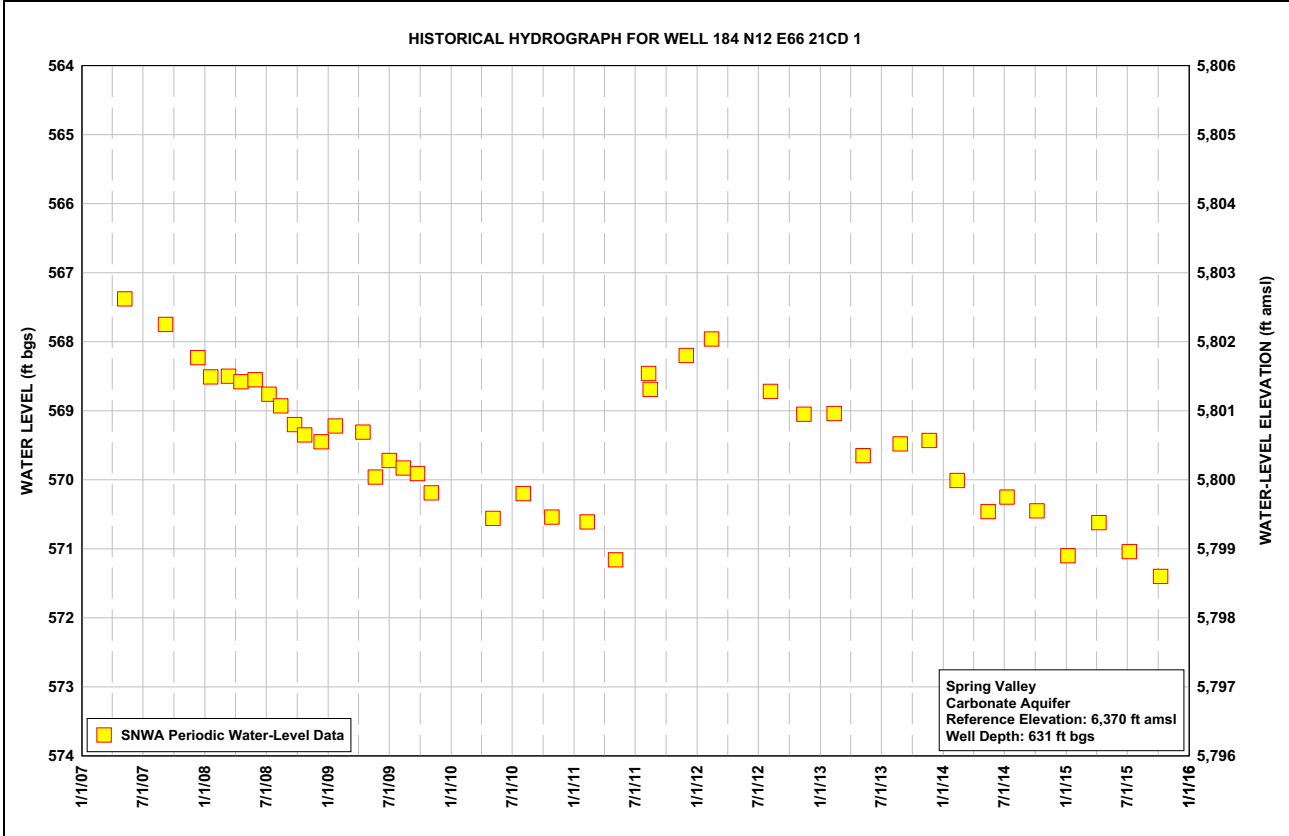
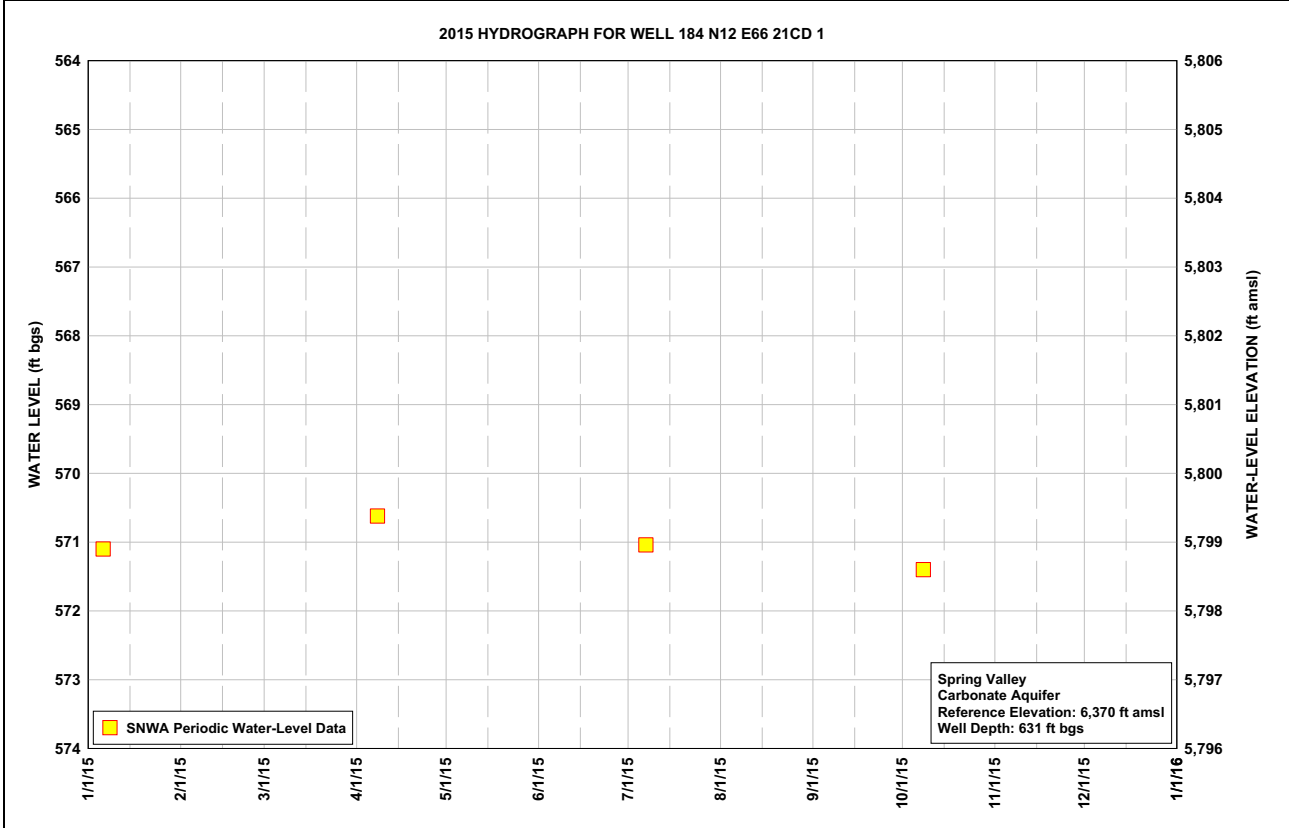


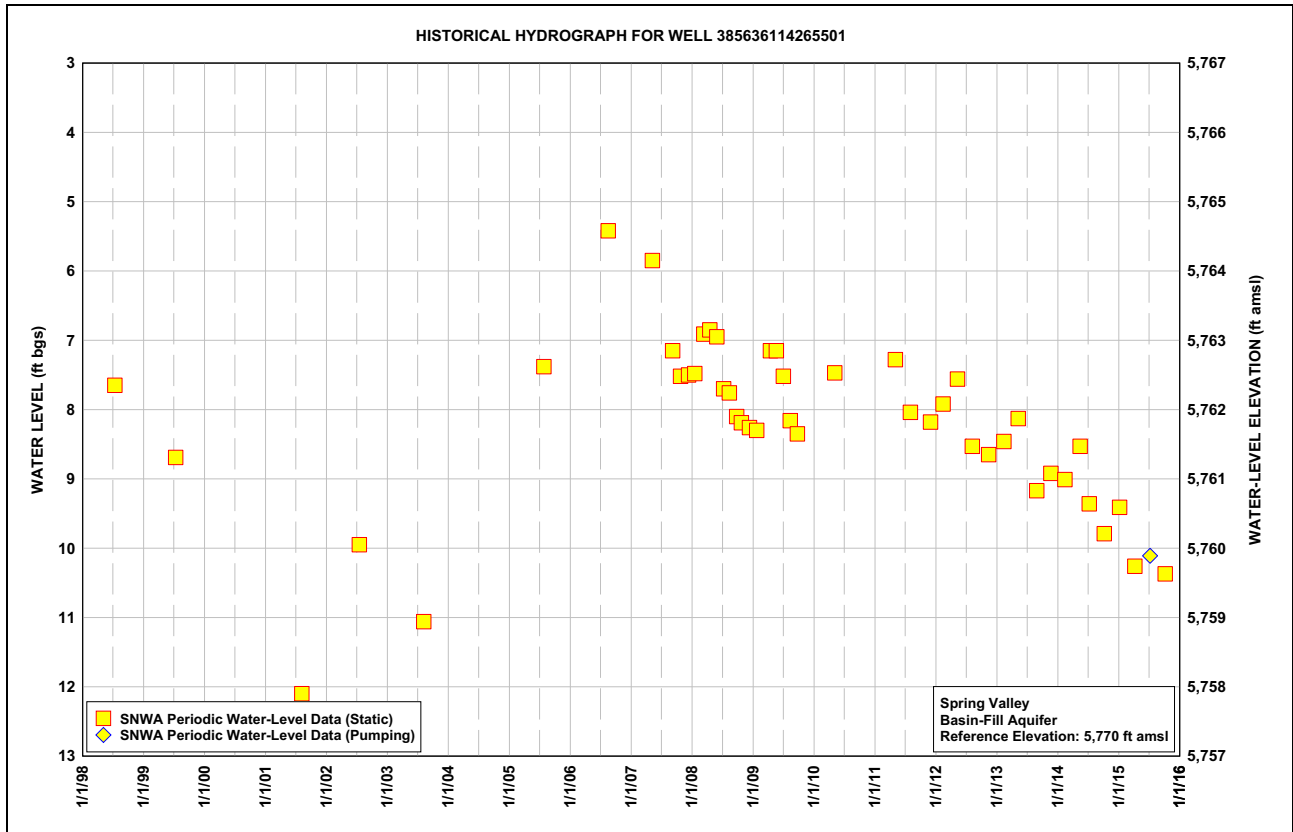
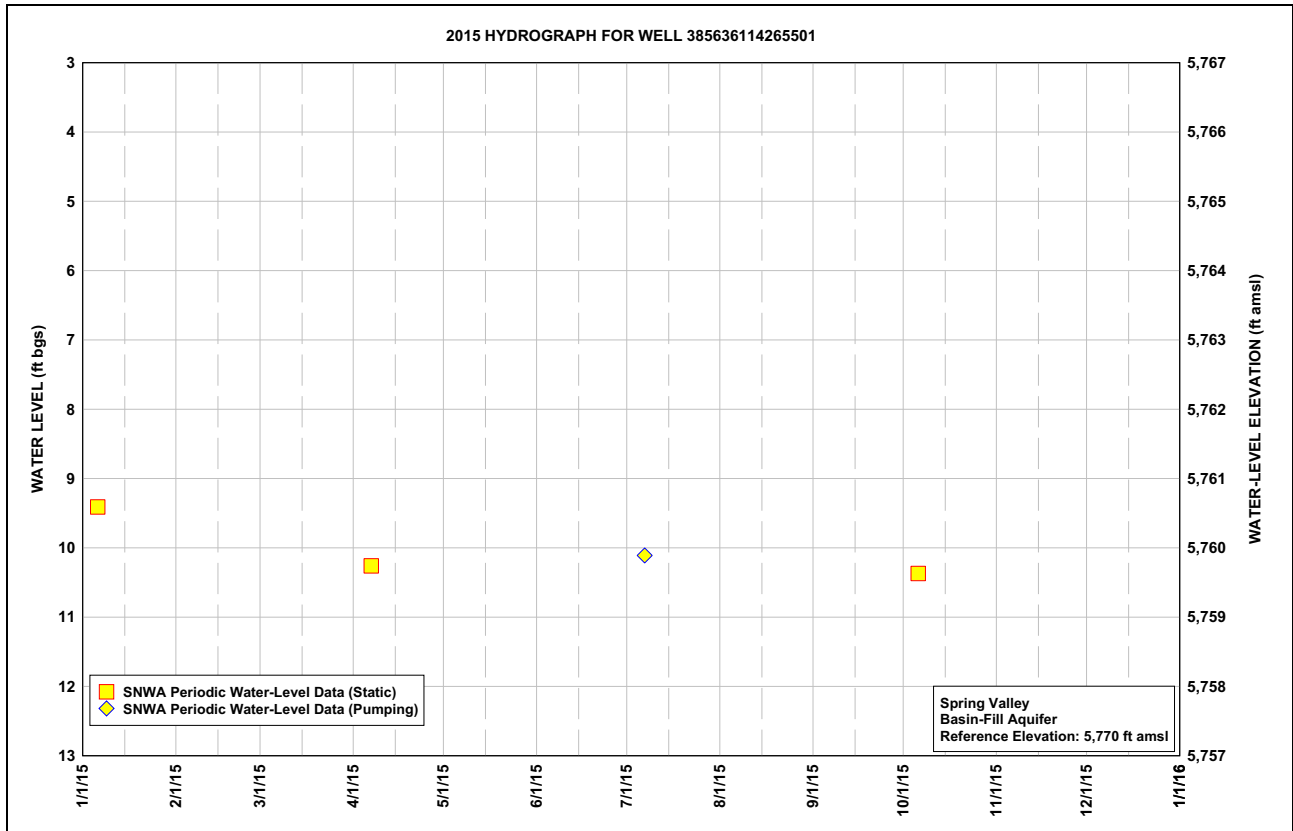


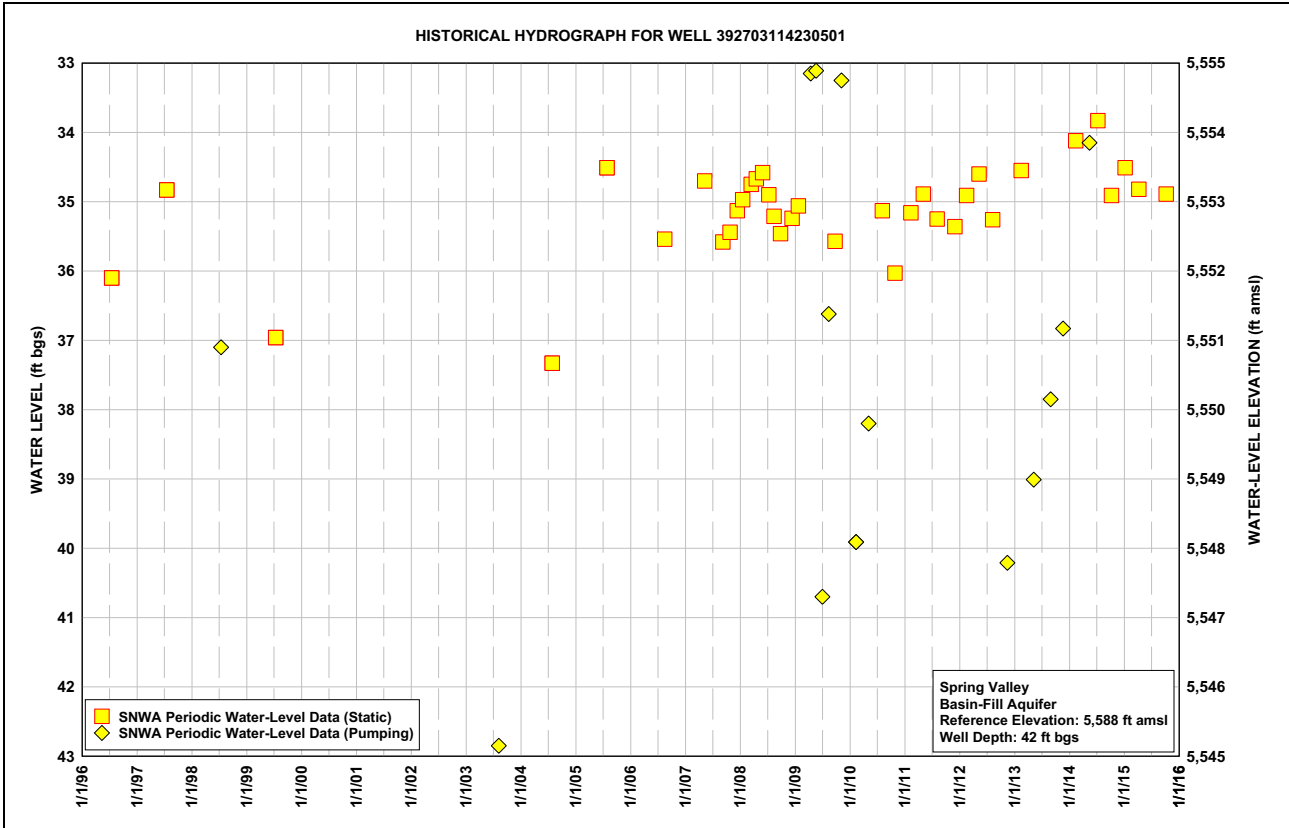
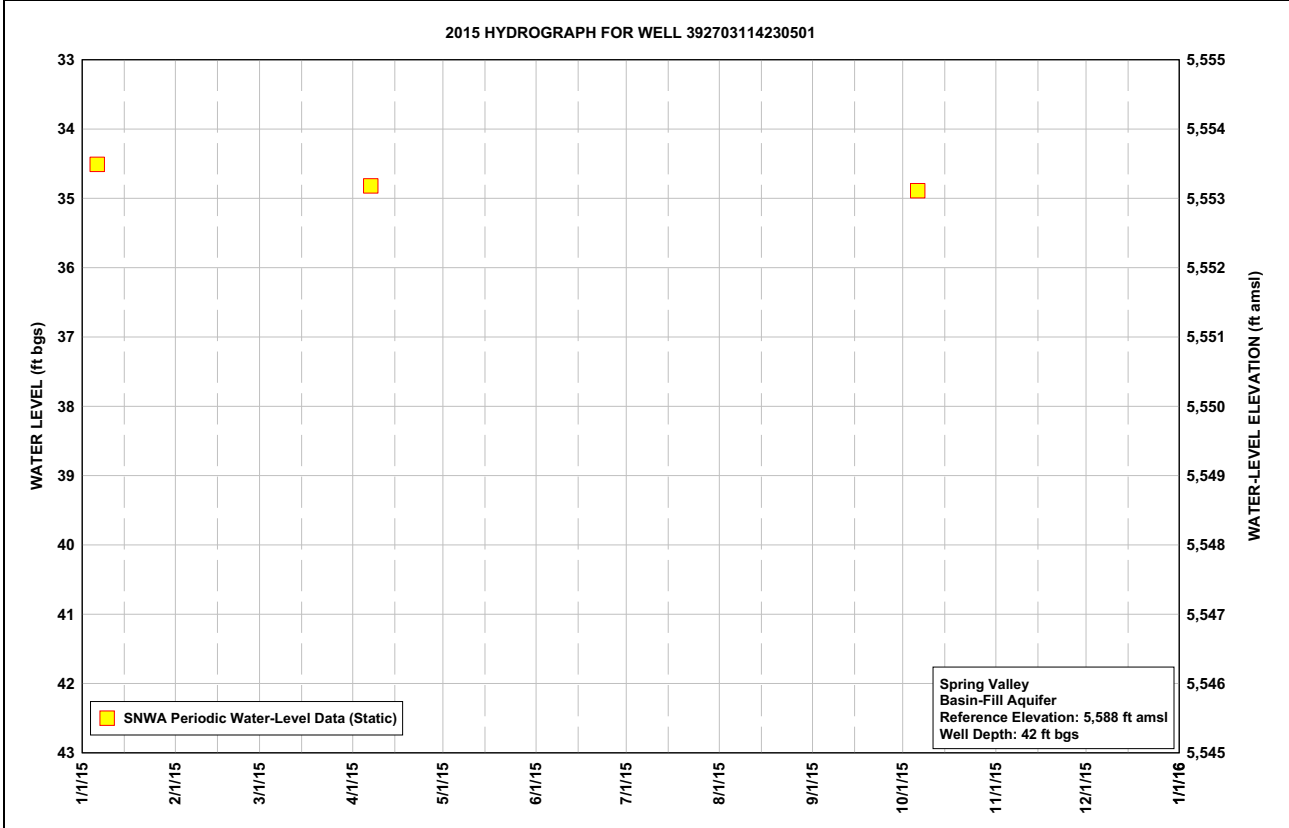


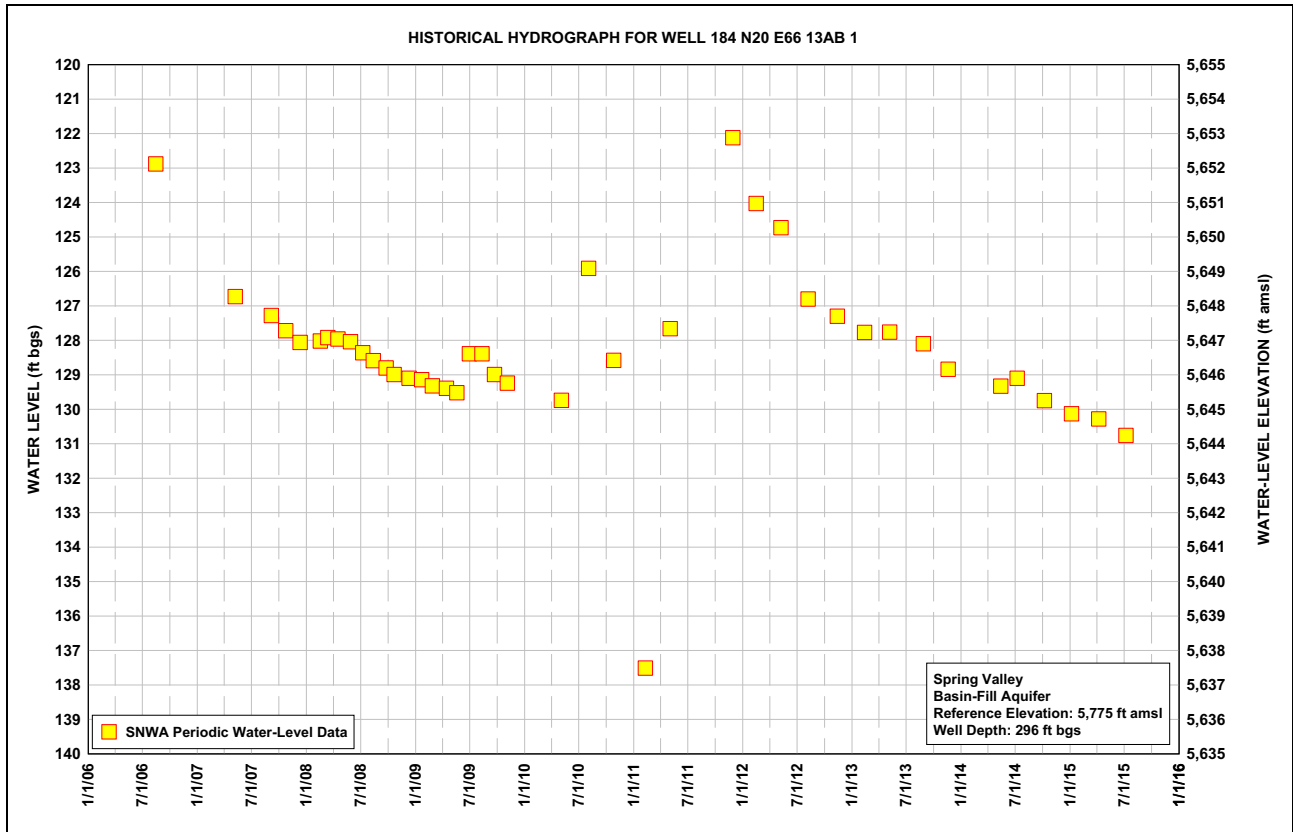
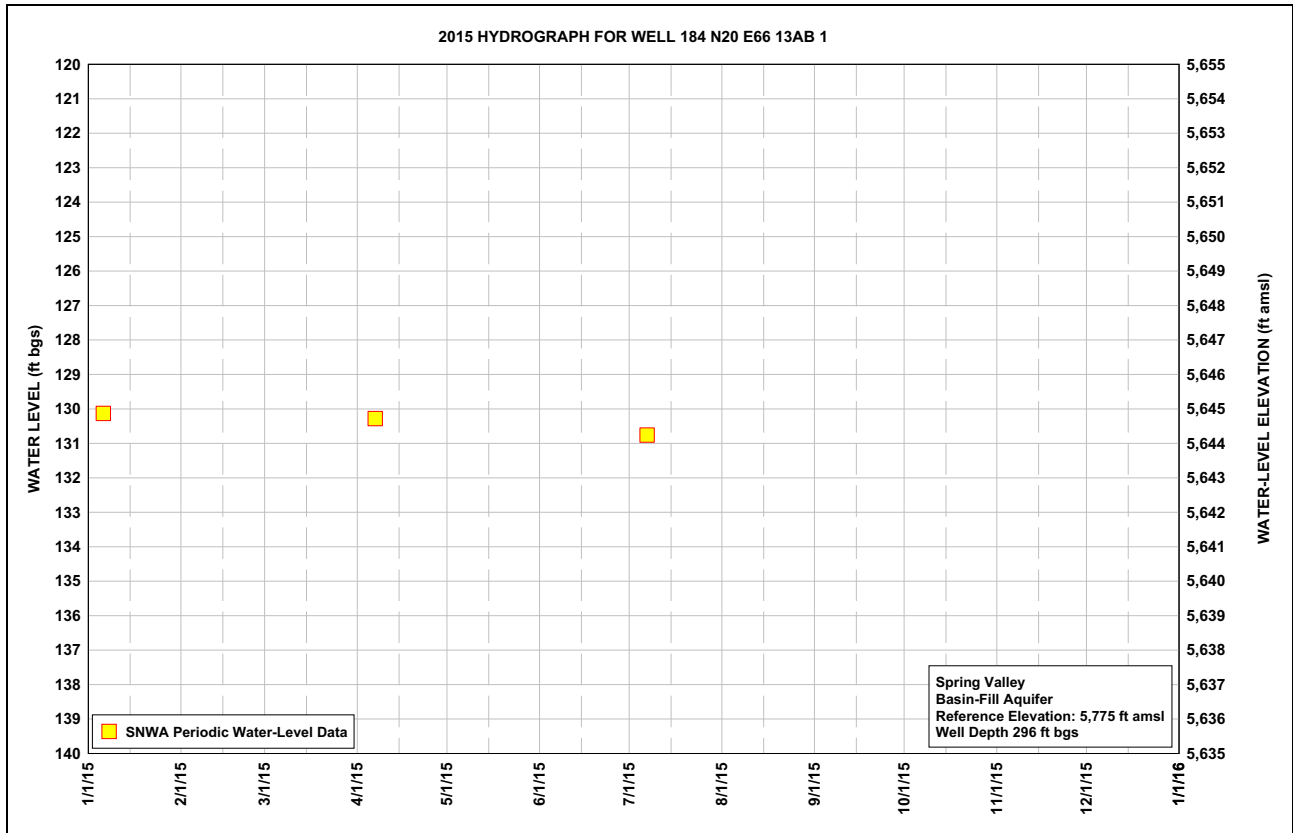


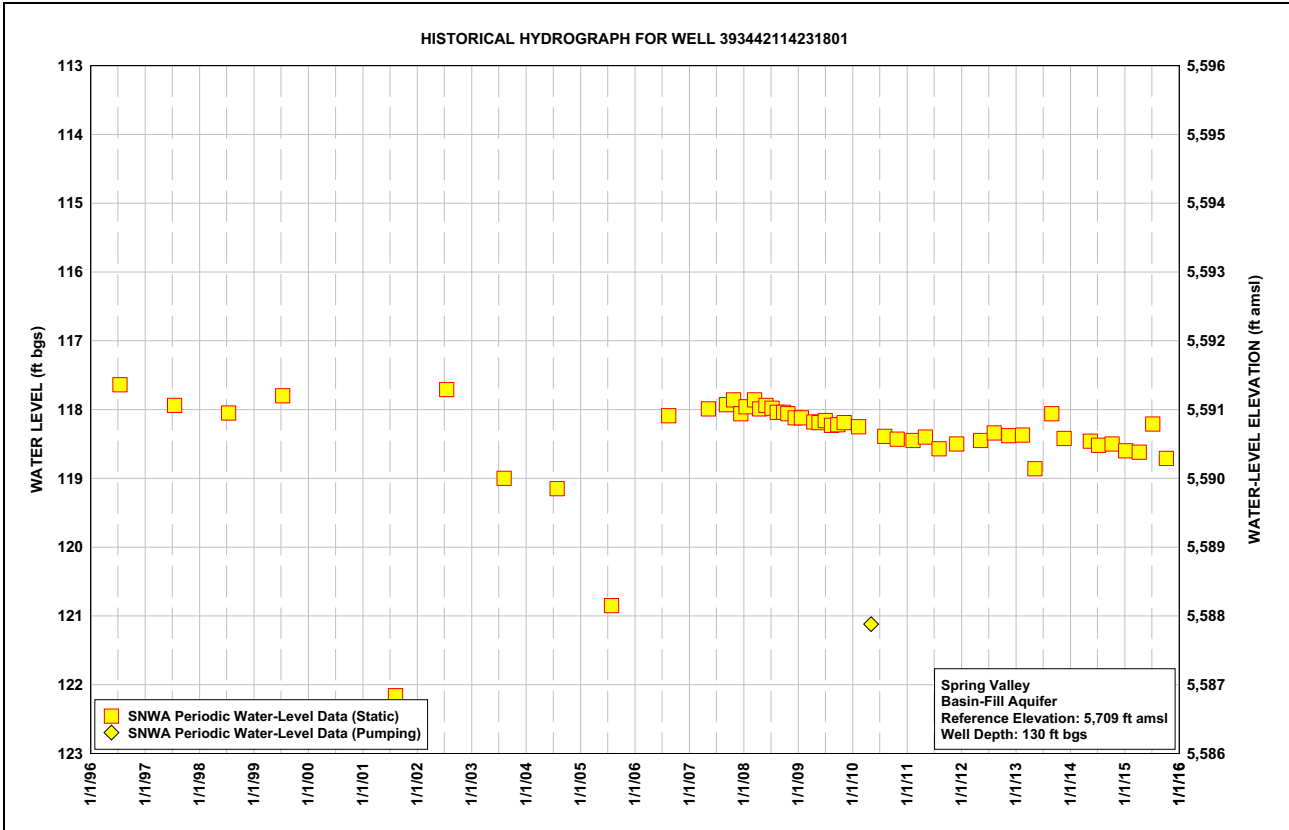
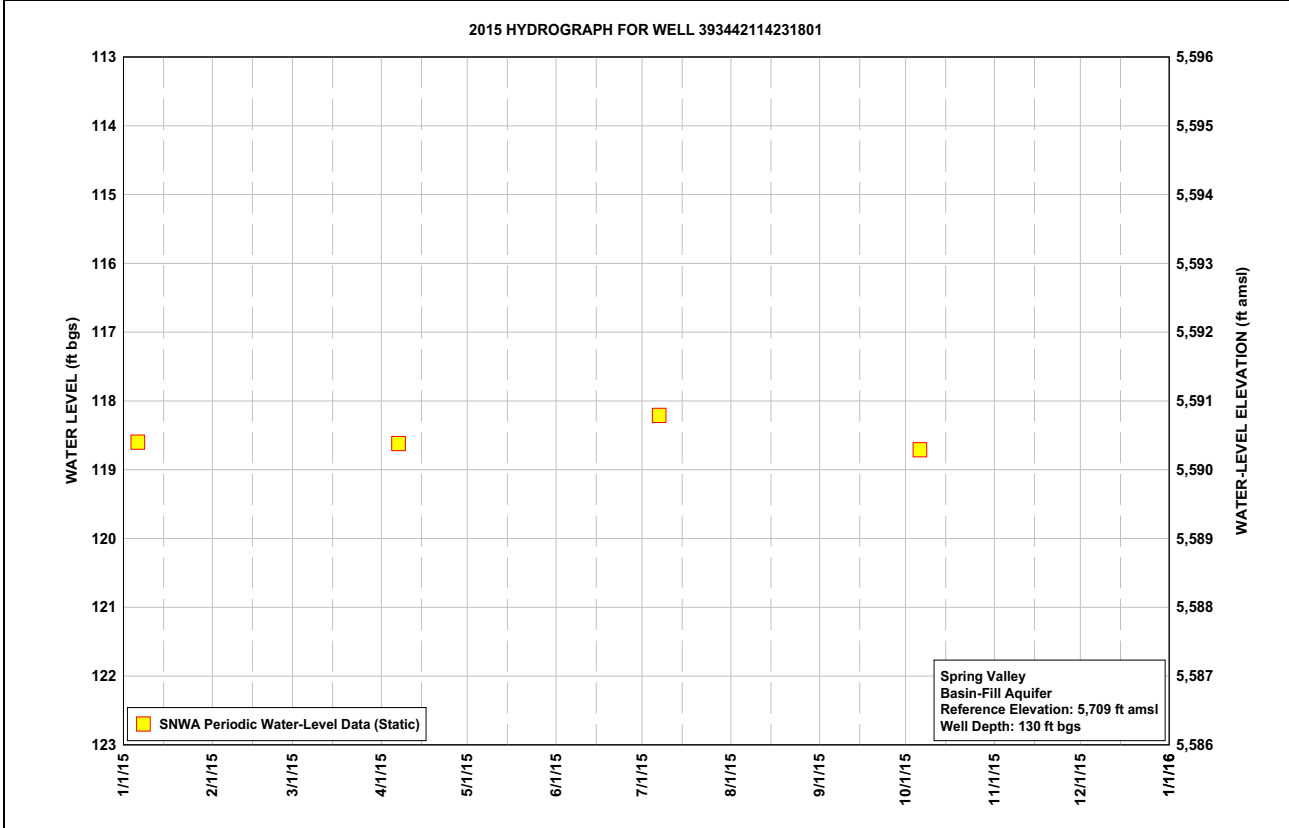


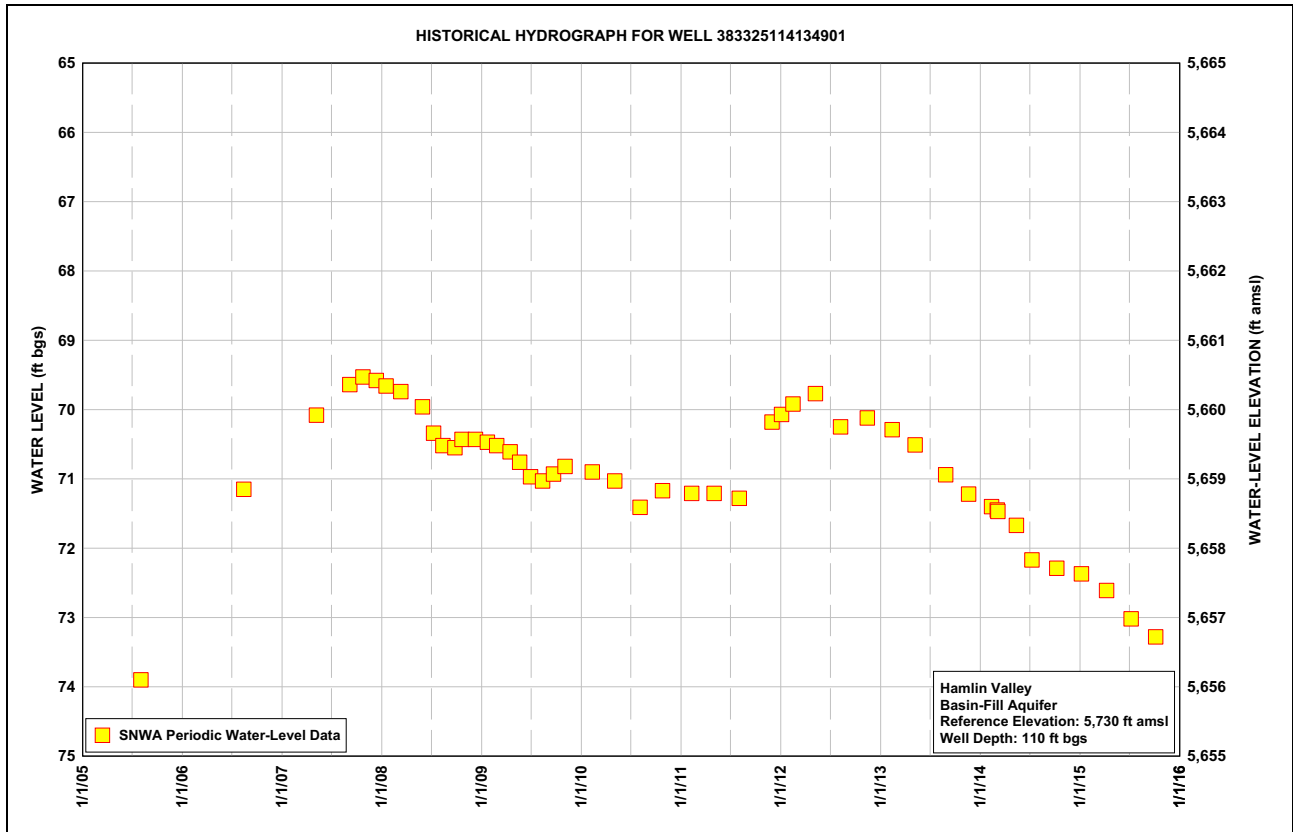
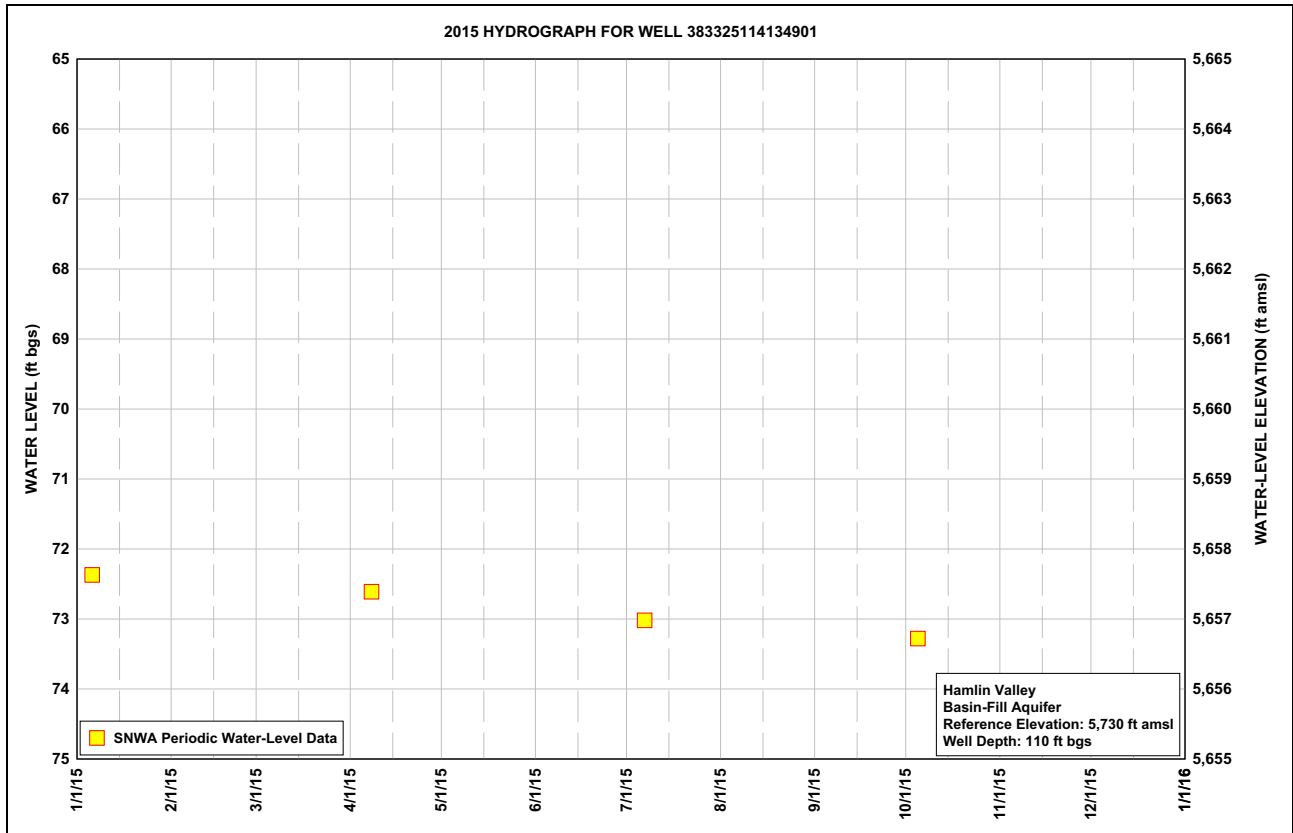












Appendix B

SV3M Plan

Continuous Water-Level Data

B.1.0 MONITORING PROGRAM WELLS WITH CONTINUOUS TRANSDUCER DATA

Continuous data collection was performed in 2015 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 2015. 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 2015
Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	224.66	224.73	224.78	224.64	224.67	224.62	224.66	224.68	224.77	224.78	224.80	224.91
2	224.67	224.67	224.52	224.76	224.63	224.65	224.67	224.67	224.76	224.81	224.62	224.89
3	224.69	224.66	224.68	224.76	224.65	224.61	224.63	224.70	224.71	224.74	224.84	224.80
4	224.76	224.69	224.79	224.56	224.66	224.64	224.63	224.73	224.73	224.83	224.87	224.80
5	224.73	224.67	224.79	224.53	224.63	224.69	224.67	224.71	224.81	224.90	224.95	224.99
6	224.73	224.64	224.71	224.67	224.62	224.68	224.71	224.71	224.84	224.91	224.94	224.86
7	224.66	224.65	224.64	224.63	224.60	224.71	224.62	224.70	224.79	224.90	224.83	224.83
8	224.58	224.70	224.63	224.76	224.68	224.70	224.60	224.73	224.81	224.90	224.75	224.83
9	224.61	224.63	224.68	224.74	224.71	224.60	224.64	224.75	224.80	224.86	224.71	224.78
10	224.62	224.71	224.68	224.66	224.71	224.61	224.68	224.72	224.81	224.81	224.81	224.67
11	224.68	224.75	224.70	224.63	224.64	224.66	224.69	224.75	224.83	224.82	224.99	224.74
12	224.66	224.69	224.73	224.74	224.59	224.65	224.70	224.80	224.79	224.87	224.88	224.94
13	224.70	224.67	224.72	224.70	224.65	224.63	224.66	224.76	224.74	224.86	224.84	224.74
14	224.73	224.62	224.67	224.56	224.61	224.66	224.64	224.73	224.71	224.84	224.76	224.78
15	224.71	224.65	224.65	224.71	224.63	224.66	224.67	224.74	224.77	224.83	224.65	224.94
16	224.62	224.64	224.63	224.67	224.70	224.68	224.71	224.72	224.80	224.83	224.85	224.90
17	224.73	224.70	224.62	224.68	224.74	224.68	224.65	224.71	224.83	224.80	224.97	224.90
18	224.67	224.69	224.66	224.67	224.68	224.66	224.71	224.74	224.87	224.80	224.83	224.85
19	224.64	224.62	224.71	224.68	224.65	224.65	224.76	224.73	224.81	224.78	224.85	224.76
20	224.64	224.60	224.70	224.63	224.67	224.66	224.69	224.72	224.81	224.86	224.89	224.88
21	224.69	224.61	224.64	224.65	224.63	224.64	224.64	224.73	224.76	224.85	224.88	224.80
22	224.72	224.65	224.66	224.64	224.65	224.68	224.65	224.80	224.79	224.82	224.81	224.64
23	224.71	224.73	224.65	224.64	224.66	224.66	224.73	224.79	224.86	224.88	224.74	224.87
24	224.71	224.73	224.70	224.63	224.67	224.66	224.73	224.77	224.86	224.86	224.69	224.81
25	224.68	224.64	224.77	224.63	224.67	224.68	224.68	224.76	224.82	224.82	224.77	224.93
26	224.60	224.57	224.73	224.79	224.69	224.67	224.63	224.79	224.77	224.81	224.94	225.03
27	224.65	224.54	224.65	224.76	224.69	224.65	224.71	224.78	224.79	224.84	224.87	224.83
28	224.69	224.63	224.64	224.68	224.69	224.64	224.79	224.74	224.82	224.77	224.86	224.66
29	224.66	---	224.72	224.63	224.69	224.67	224.76	224.72	224.83	224.80	224.86	224.90
30	224.54	---	224.64	224.67	224.66	224.66	224.75	224.72	224.83	224.89	224.85	224.93
31	224.68	---	224.58	---	224.63	---	224.72	224.79	---	224.88	---	224.95
Max	224.76	224.75	224.79	224.79	224.74	224.71	224.79	224.80	224.87	224.91	224.99	225.03
Min	224.54	224.54	224.52	224.53	224.59	224.60	224.60	224.67	224.71	224.74	224.62	224.64

Year 2015 Statistics: Year Max 225.03; Year Min 224.52

Note: Water level in ft bgs

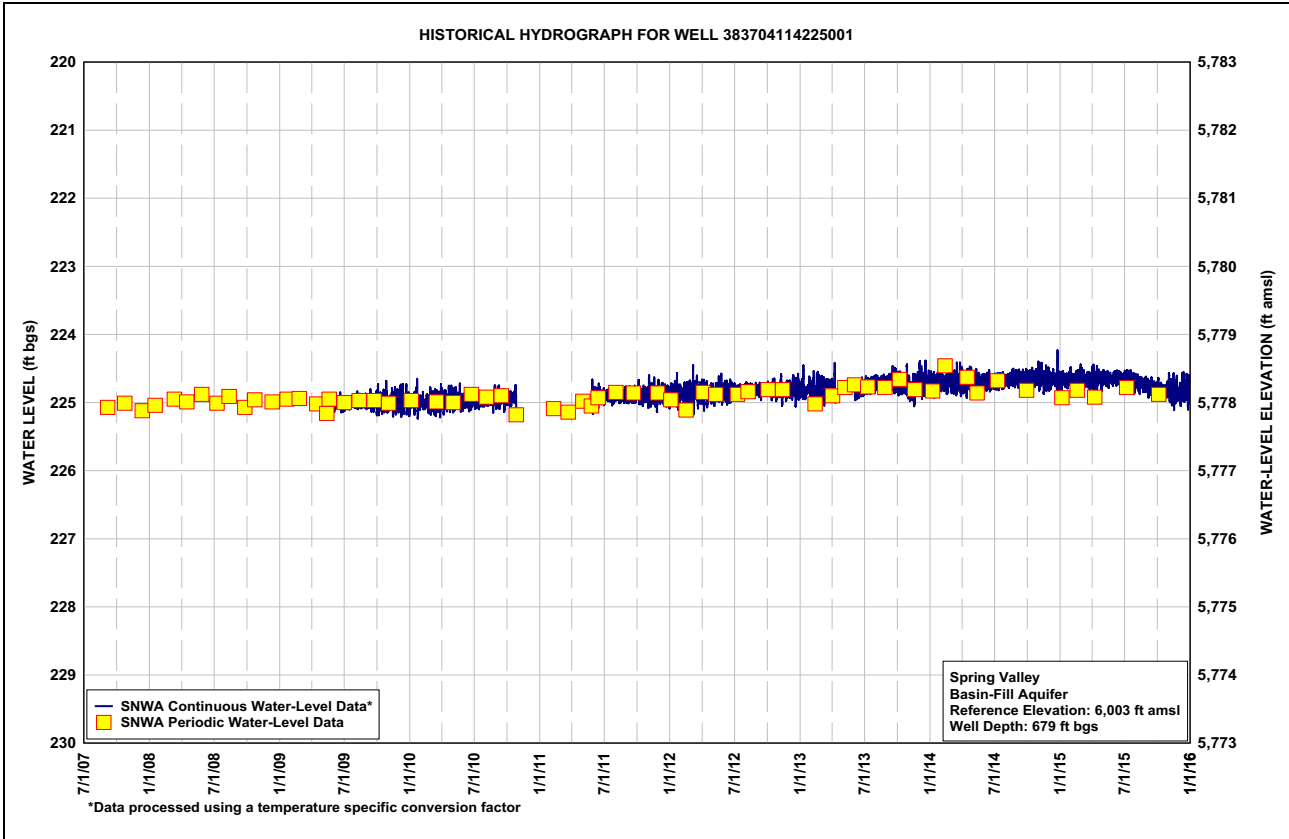
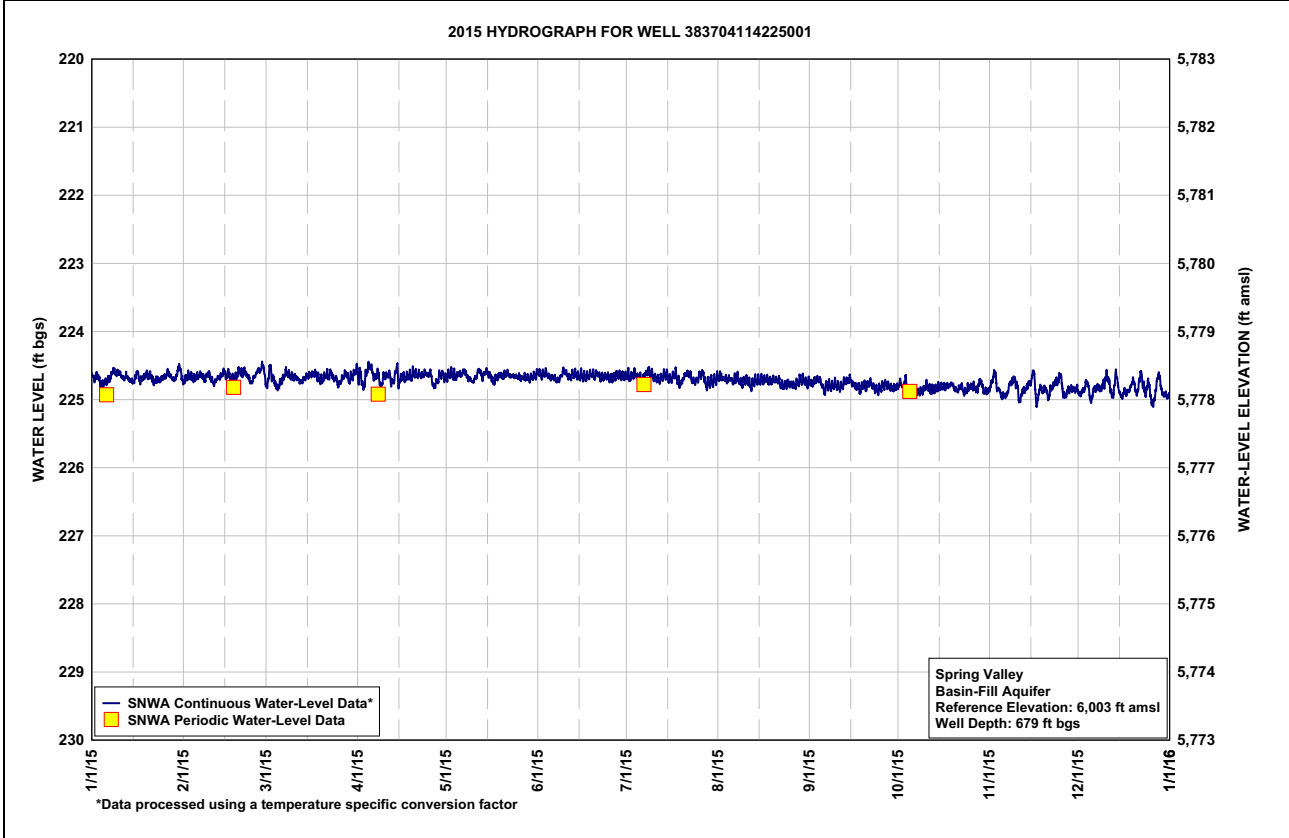




Table B-2
Spring Valley Well 384112114091101, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	359.18	359.37	359.46	359.62	359.78	359.75	359.61	359.63	359.71	359.80	359.93	360.15
2	359.21	359.34	359.38	359.69	359.75	359.73	359.60	359.61	359.70	359.81	359.83	360.16
3	359.22	359.36	359.46	359.70	359.75	359.71	359.59	359.62	359.68	359.78	359.89	360.11
4	359.28	359.38	359.55	359.62	359.75	359.70	359.59	359.62	359.67	359.80	359.94	360.10
5	359.30	359.38	359.58	359.56	359.75	359.71	359.59	359.61	359.71	359.85	360.01	360.21
6	359.31	359.35	359.57	359.60	359.72	359.71	359.62	359.62	359.76	359.87	360.04	360.16
7	359.26	359.38	359.53	359.60	359.72	359.74	359.57	359.61	359.75	359.89	360.01	360.15
8	359.22	359.40	359.52	359.66	359.74	359.73	359.55	359.63	359.78	359.91	359.95	360.16
9	359.21	359.39	359.54	359.67	359.78	359.68	359.55	359.65	359.78	359.90	359.92	360.12
10	359.20	359.43	359.56	359.66	359.80	359.64	359.57	359.64	359.78	359.88	359.95	360.05
11	359.22	359.47	359.56	359.65	359.77	359.67	359.58	359.66	359.80	359.88	360.07	360.05
12	359.24	359.47	359.61	359.72	359.73	359.66	359.59	359.69	359.77	359.91	360.06	360.14
13	359.27	359.45	359.61	359.70	359.76	359.64	359.58	359.69	359.74	359.91	360.04	360.05
14	359.30	359.43	359.60	359.63	359.73	359.64	359.56	359.68	359.72	359.91	359.99	360.06
15	359.32	359.44	359.59	359.72	359.74	359.63	359.58	359.67	359.72	359.90	359.89	360.15
16	359.27	359.43	359.57	359.71	359.79	359.64	359.58	359.66	359.74	359.90	359.98	360.18
17	359.33	359.45	359.55	359.72	359.81	359.64	359.56	359.65	359.76	359.88	360.07	360.21
18	359.29	359.45	359.58	359.71	359.81	359.62	359.61	359.66	359.80	359.88	360.04	360.19
19	359.29	359.40	359.62	359.72	359.80	359.61	359.64	359.66	359.81	359.85	360.06	360.15
20	359.30	359.40	359.62	359.69	359.80	359.61	359.61	359.65	359.81	359.90	360.10	360.18
21	359.34	359.37	359.59	359.69	359.79	359.60	359.58	359.65	359.77	359.91	360.12	360.14
22	359.35	359.42	359.60	359.70	359.79	359.62	359.57	359.69	359.79	359.90	360.08	360.08
23	359.38	359.46	359.59	359.68	359.79	359.61	359.60	359.71	359.81	359.95	360.02	360.14
24	359.38	359.47	359.62	359.68	359.80	359.61	359.61	359.71	359.85	359.94	359.96	360.15
25	359.37	359.44	359.70	359.68	359.81	359.63	359.60	359.72	359.83	359.92	359.96	360.22
26	359.34	359.40	359.68	359.78	359.83	359.63	359.56	359.73	359.81	359.93	360.06	360.31
27	359.33	359.35	359.64	359.80	359.83	359.63	359.59	359.74	359.81	359.94	360.08	360.23
28	359.36	359.39	359.64	359.78	359.83	359.61	359.65	359.72	359.82	359.91	360.09	360.15
29	359.37	---	359.67	359.75	359.84	359.62	359.66	359.70	359.84	359.91	360.11	360.22
30	359.29	---	359.64	359.77	359.82	359.61	359.66	359.69	359.84	359.97	360.12	360.28
31	359.33	---	359.57	---	359.78	---	359.64	359.71	---	359.98	---	360.33
Max	359.38	359.47	359.70	359.80	359.84	359.75	359.66	359.74	359.85	359.98	360.12	360.33
Min	359.18	359.34	359.38	359.56	359.72	359.60	359.55	359.61	359.67	359.78	359.83	360.05

Year 2015 Statistics: Year Max 360.33; Year Min 359.18

Note: Water level in ft bgs

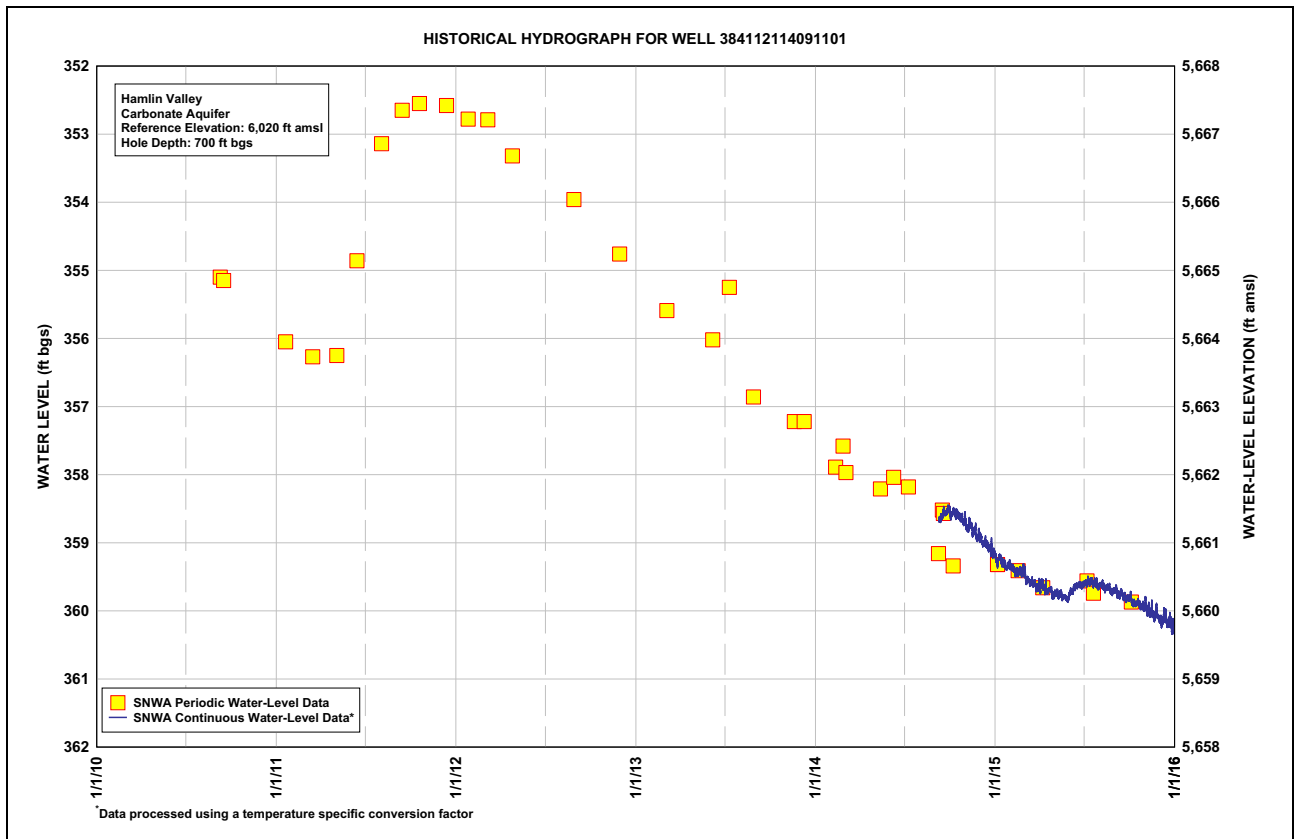
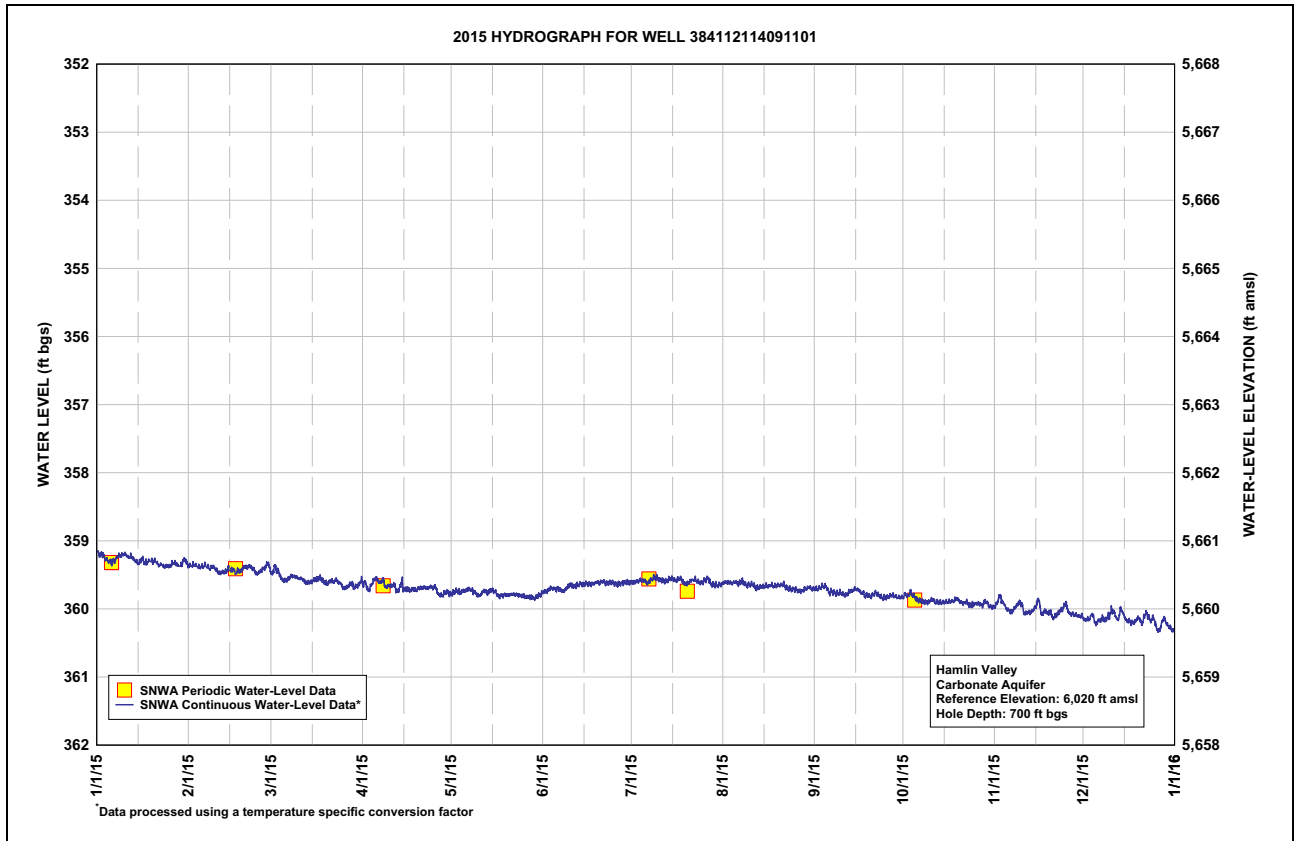




Table B-3
Spring Valley Well 384227114082701, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	228.61	228.69	228.72	228.73	228.80	228.82	228.87	228.86	228.91	228.93	228.98	229.10
2	228.62	228.67	228.64	228.79	228.78	228.83	228.86	228.85	228.91	228.94	228.91	229.09
3	228.64	228.68	228.70	228.77	228.79	228.81	228.85	228.88	228.89	228.91	228.99	229.03
4	228.66	228.68	228.76	228.70	228.80	228.83	228.85	228.87	228.90	228.95	229.02	229.06
5	228.66	228.68	228.76	228.69	228.78	228.84	228.86	228.87	228.93	228.98	229.05	229.12
6	228.66	228.66	228.74	228.73	228.77	228.85	228.88	228.88	228.93	228.99	229.05	229.07
7	228.62	228.67	228.70	228.72	228.78	228.87	228.84	228.86	228.94	229.00	229.00	229.07
8	228.60	228.69	228.70	228.79	228.80	228.84	228.83	228.88	228.94	228.99	228.97	229.08
9	228.60	228.66	228.71	228.77	228.83	228.82	228.84	228.90	228.93	228.98	228.96	229.05
10	228.60	228.71	228.72	228.77	228.82	228.81	228.86	228.88	228.94	228.96	229.00	229.00
11	228.62	228.73	228.73	228.74	228.78	228.84	228.86	228.90	228.94	228.97	229.07	229.03
12	228.63	228.70	228.76	228.81	228.77	228.83	228.87	228.91	228.92	228.99	229.04	229.11
13	228.65	228.70	228.76	228.76	228.80	228.82	228.85	228.90	228.90	228.99	229.03	229.02
14	228.68	228.66	228.74	228.71	228.78	228.84	228.84	228.88	228.89	228.98	229.00	229.07
15	228.65	228.68	228.73	228.79	228.79	228.84	228.86	228.89	228.91	228.98	228.93	229.13
16	228.61	228.67	228.71	228.78	228.83	228.86	228.87	228.89	228.93	228.98	229.06	229.12
17	228.68	228.70	228.71	228.78	228.84	228.86	228.85	228.88	228.94	228.97	229.06	229.12
18	228.64	228.70	228.72	228.78	228.82	228.85	228.89	228.90	228.95	228.97	229.06	229.09
19	228.64	228.67	228.76	228.77	228.81	228.84	228.89	228.89	228.95	228.96	229.05	229.06
20	228.64	228.66	228.75	228.77	228.83	228.85	228.85	228.89	228.94	228.99	229.10	229.12
21	228.67	228.66	228.72	228.77	228.81	228.84	228.83	228.89	228.93	228.99	229.07	229.07
22	228.67	228.68	228.73	228.77	228.82	228.87	228.84	228.93	228.94	228.97	229.03	229.01
23	228.68	228.73	228.73	228.77	228.82	228.85	228.88	228.93	228.96	229.01	229.00	229.11
24	228.68	228.72	228.75	228.76	228.83	228.85	228.88	228.91	228.97	228.99	228.98	229.08
25	228.66	228.70	228.80	228.76	228.83	228.87	228.86	228.91	228.95	228.98	229.02	229.16
26	228.64	228.66	228.77	228.84	228.84	228.87	228.84	228.92	228.94	228.98	229.08	229.18
27	228.66	228.63	228.74	228.84	228.84	228.86	228.87	228.91	228.93	229.00	229.07	229.07
28	228.68	228.68	228.74	228.81	228.84	228.85	228.91	228.90	228.95	228.95	229.07	229.03
29	228.66	---	228.76	228.78	228.84	228.86	228.90	228.89	228.96	228.98	229.08	229.12
30	228.60	---	228.75	228.80	228.83	228.86	228.89	228.89	228.96	229.02	229.07	229.15
31	228.66	---	228.71	---	228.82	---	228.88	228.92	---	229.02	---	229.16
Max	228.68	228.73	228.80	228.84	228.84	228.87	228.91	228.93	228.97	229.02	229.10	229.18
Min	228.60	228.63	228.64	228.69	228.77	228.81	228.83	228.85	228.89	228.91	228.91	229.00

Year 2015 Statistics: Year Max 229.18; Year Min 228.60

Note: Water level in ft bgs

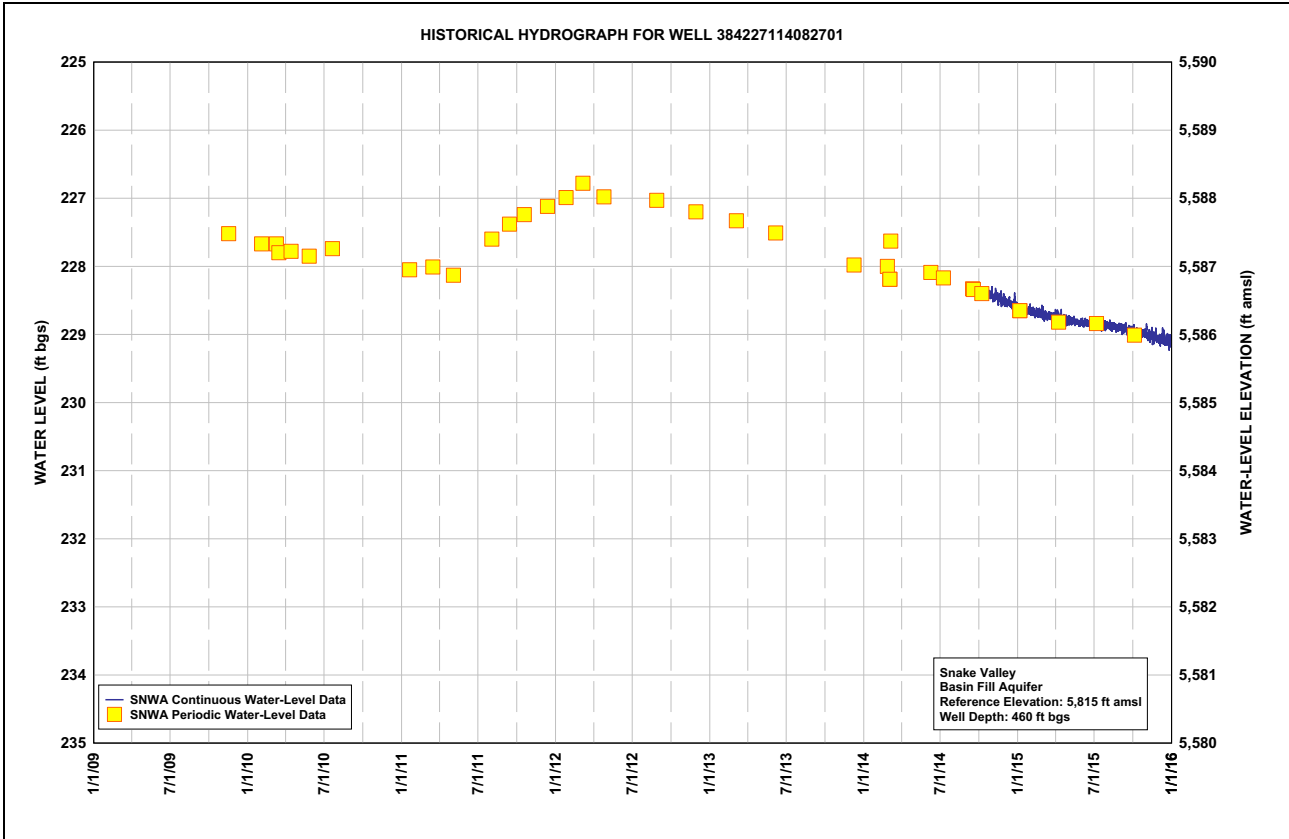
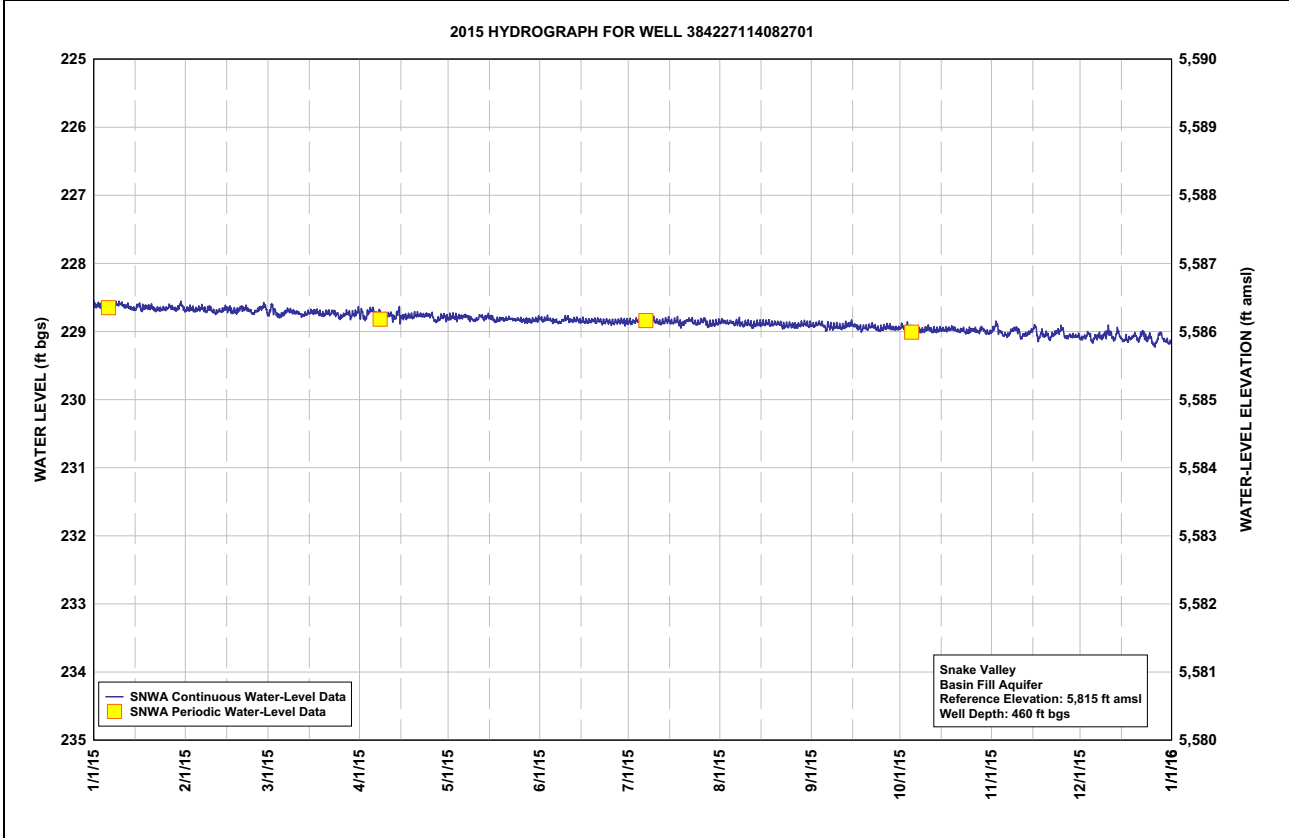


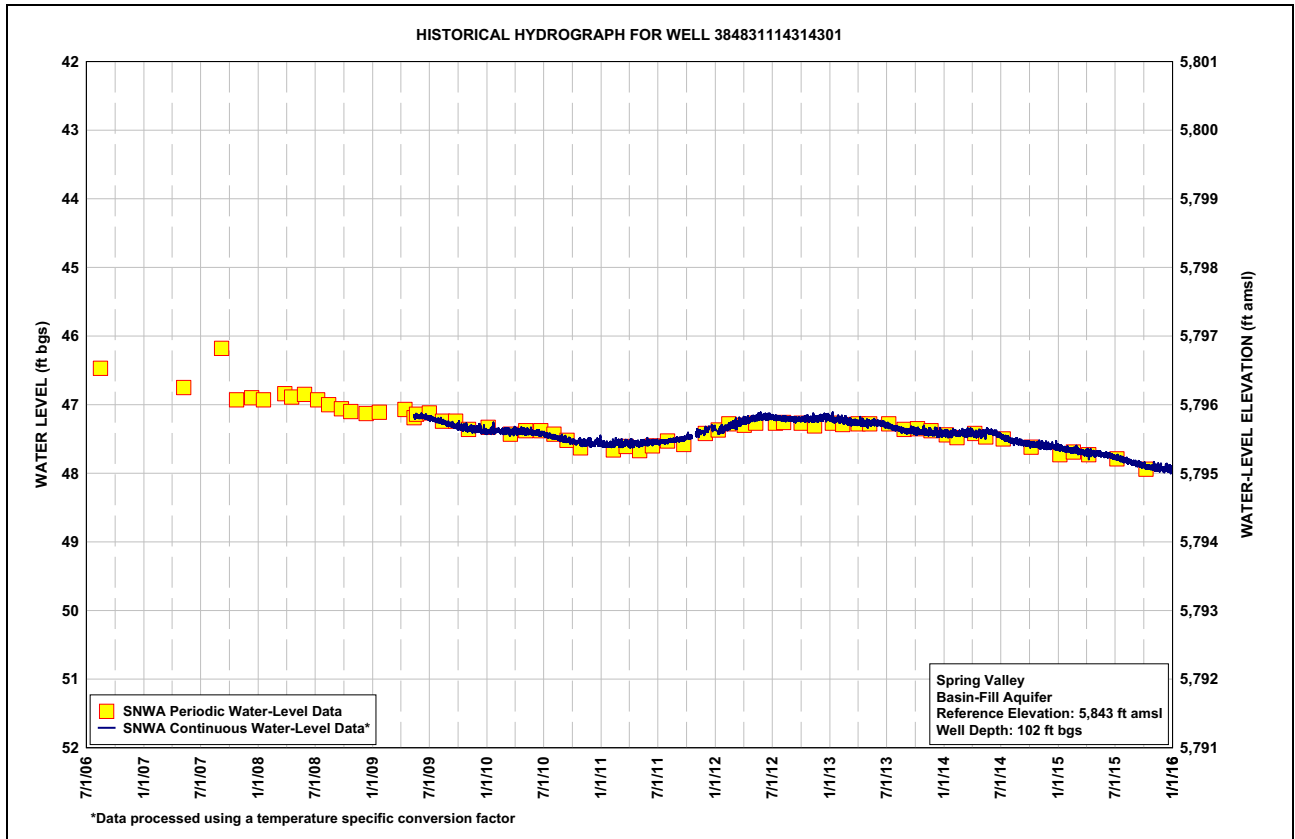
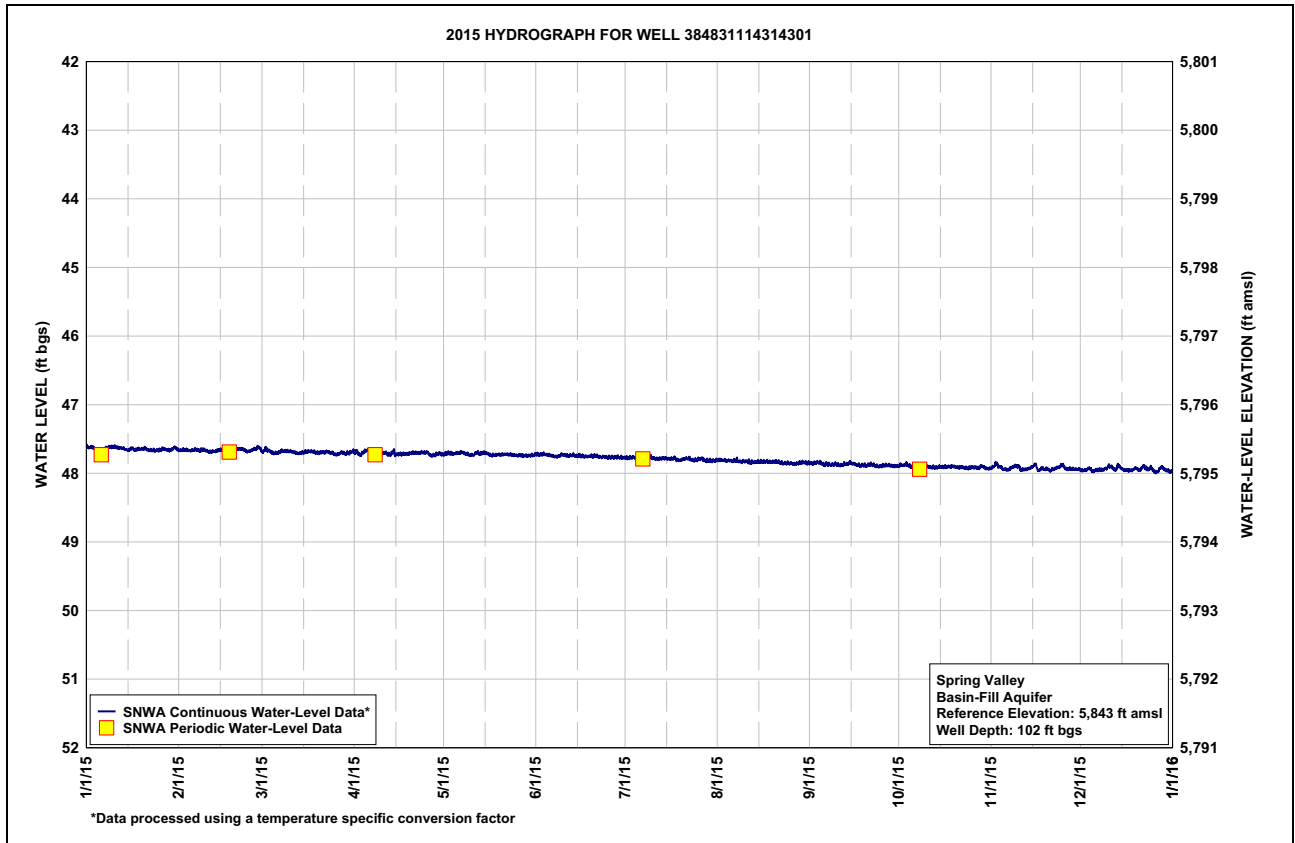


Table B-4
Spring Valley Well 384831114314301, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	47.62	47.67	47.68	47.69	47.73	47.72	47.78	47.81	47.85	47.89	47.91	47.96
2	47.62	47.66	47.65	47.72	47.71	47.74	47.78	47.81	47.86	47.89	47.87	47.95
3	47.63	47.66	47.67	47.72	47.72	47.73	47.77	47.81	47.85	47.87	47.90	47.94
4	47.65	47.67	47.70	47.68	47.72	47.73	47.77	47.82	47.85	47.89	47.92	47.94
5	47.66	47.67	47.71	47.67	47.71	47.74	47.78	47.81	47.87	47.91	47.95	47.97
6	47.65	47.66	47.71	47.69	47.71	47.75	47.79	47.82	47.87	47.92	47.95	47.95
7	47.64	47.66	47.68	47.69	47.70	47.76	47.78	47.82	47.87	47.92	47.93	47.95
8	47.62	47.67	47.68	47.72	47.71	47.75	47.76	47.83	47.88	47.92	47.91	47.95
9	47.62	47.66	47.69	47.72	47.73	47.73	47.77	47.83	47.87	47.92	47.89	47.93
10	47.62	47.68	47.68	47.72	47.74	47.73	47.78	47.83	47.88	47.90	47.91	47.91
11	47.63	47.69	47.69	47.71	47.72	47.74	47.79	47.83	47.88	47.91	47.95	47.91
12	47.63	47.69	47.71	47.72	47.70	47.75	47.79	47.85	47.87	47.92	47.95	47.94
13	47.64	47.68	47.71	47.72	47.72	47.74	47.79	47.85	47.87	47.92	47.94	47.91
14	47.66	47.65	47.70	47.70	47.71	47.75	47.78	47.83	47.86	47.91	47.92	47.92
15	47.66	47.66	47.69	47.72	47.71	47.75	47.79	47.84	47.86	47.90	47.88	47.95
16	47.64	47.66	47.69	47.72	47.72	47.76	47.79	47.83	47.87	47.92	47.92	47.95
17	47.66	47.68	47.68	47.72	47.74	47.76	47.79	47.84	47.89	47.91	47.95	47.96
18	47.65	47.68	47.69	47.72	47.74	47.76	47.80	47.84	47.89	47.90	47.93	47.95
19	47.65	47.66	47.70	47.71	47.73	47.75	47.81	47.84	47.89	47.90	47.94	47.93
20	47.65	47.65	47.70	47.71	47.74	47.75	47.80	47.83	47.88	47.91	47.95	47.95
21	47.66	47.65	47.70	47.71	47.73	47.75	47.79	47.84	47.88	47.92	47.95	47.93
22	47.67	47.65	47.69	47.71	47.73	47.77	47.79	47.85	47.88	47.91	47.94	47.90
23	47.67	47.67	47.70	47.70	47.73	47.77	47.80	47.86	47.90	47.92	47.91	47.94
24	47.67	47.68	47.70	47.70	47.74	47.77	47.81	47.85	47.90	47.92	47.89	47.92
25	47.66	47.67	47.72	47.70	47.74	47.77	47.80	47.86	47.89	47.92	47.91	47.95
26	47.65	47.65	47.72	47.73	47.75	47.77	47.79	47.86	47.89	47.91	47.94	47.98
27	47.65	47.63	47.70	47.74	47.75	47.77	47.81	47.87	47.89	47.92	47.94	47.94
28	47.66	47.65	47.70	47.73	47.74	47.77	47.82	47.85	47.89	47.91	47.94	47.91
29	47.66	---	47.72	47.71	47.75	47.77	47.82	47.84	47.90	47.91	47.95	47.95
30	47.63	---	47.70	47.72	47.74	47.77	47.82	47.85	47.90	47.93	47.95	47.97
31	47.65	---	47.68	---	47.73	---	47.82	47.86	---	47.93	---	47.98
Max	47.67	47.69	47.72	47.74	47.75	47.77	47.82	47.87	47.90	47.93	47.95	47.98
Min	47.62	47.63	47.65	47.67	47.70	47.72	47.76	47.81	47.85	47.87	47.87	47.90

Year 2015 Statistics: Year Max 47.98; Year Min 47.62

Note: Water level in ft bgs



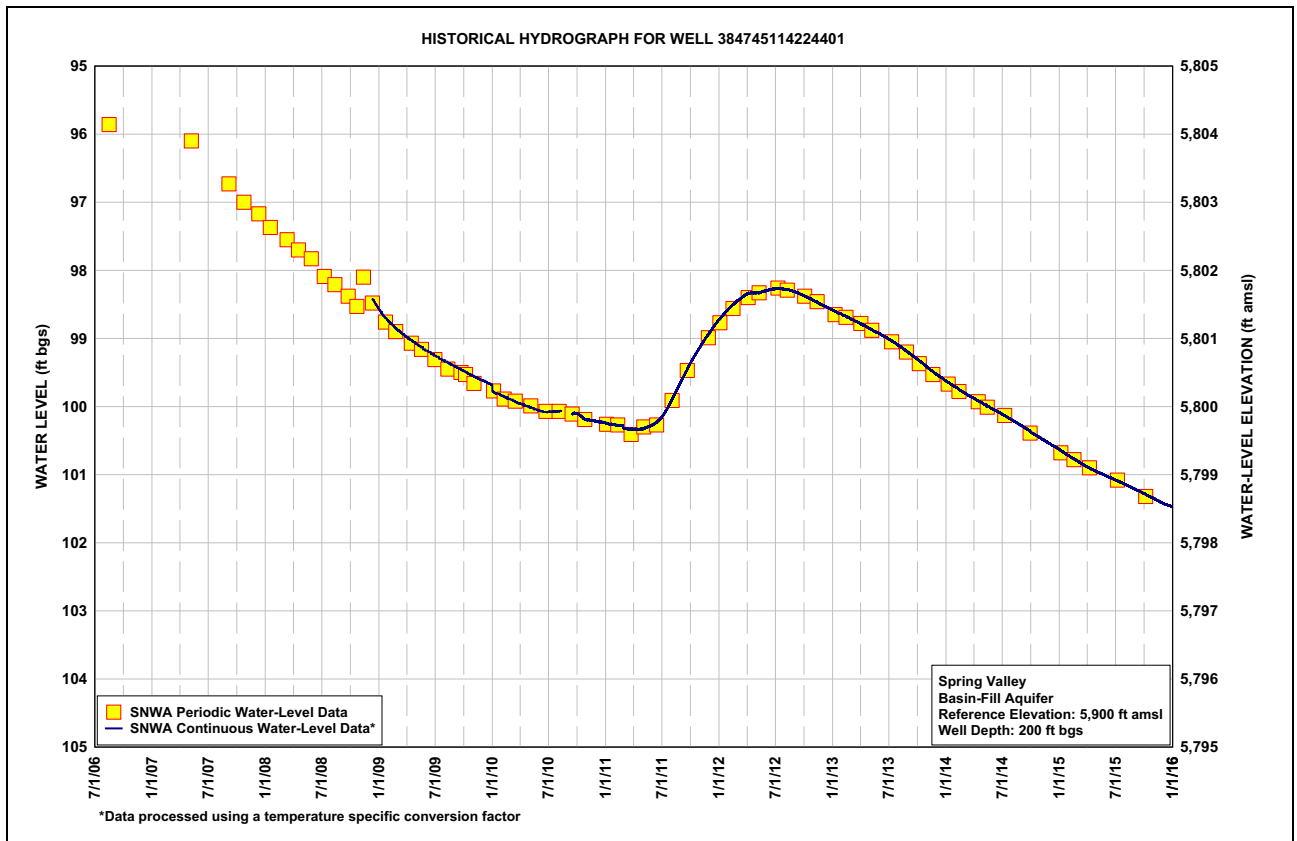
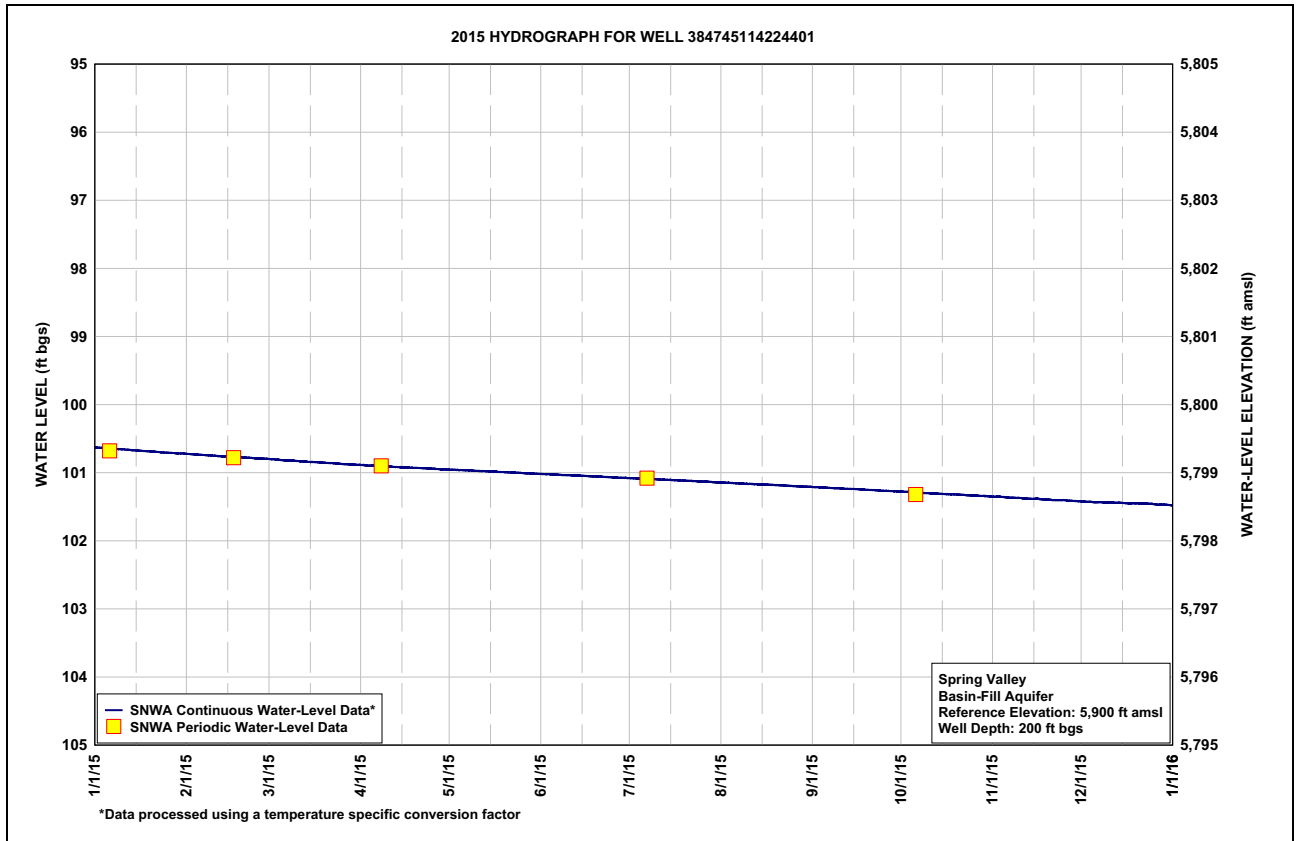


**Table B-5
Spring Valley Well 384745114224401, Calendar Year 2015
Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	100.63	100.73	100.80	100.89	100.96	101.02	101.08	101.14	101.21	101.28	101.35	101.42
2	100.63	100.73	100.80	100.89	100.96	101.02	101.08	101.15	101.21	101.28	101.35	101.43
3	100.64	100.73	100.81	100.90	100.96	101.02	101.08	101.15	101.22	101.28	101.35	101.43
4	100.64	100.73	100.81	100.90	100.96	101.02	101.09	101.15	101.22	101.28	101.36	101.43
5	100.65	100.74	100.82	100.90	100.96	101.03	101.09	101.15	101.22	101.29	101.36	101.43
6	100.65	100.74	100.82	100.90	100.96	101.03	101.09	101.16	101.22	101.29	101.37	101.43
7	100.65	100.74	100.82	100.90	100.96	101.03	101.09	101.16	101.22	101.29	101.37	101.43
8	100.65	100.74	100.82	100.90	100.97	101.04	101.09	101.16	101.23	101.30	101.37	101.43
9	100.66	100.75	100.82	100.91	100.97	101.04	101.09	101.16	101.23	101.30	101.37	101.44
10	100.66	100.75	100.83	100.91	100.97	101.04	101.10	101.16	101.23	101.30	101.37	101.44
11	100.66	100.76	100.83	100.91	100.98	101.04	101.10	101.16	101.23	101.30	101.38	101.44
12	100.66	100.76	100.83	100.92	100.98	101.04	101.10	101.17	101.24	101.31	101.38	101.44
13	100.67	100.76	100.84	100.92	100.98	101.04	101.10	101.17	101.24	101.31	101.38	101.44
14	100.67	100.76	100.84	100.92	100.98	101.04	101.10	101.17	101.24	101.31	101.38	101.44
15	100.68	100.77	100.84	100.92	100.98	101.05	101.11	101.17	101.24	101.31	101.38	101.45
16	100.68	100.77	100.84	100.92	100.98	101.05	101.11	101.18	101.24	101.31	101.38	101.45
17	100.68	100.77	100.85	100.93	100.99	101.05	101.11	101.18	101.25	101.32	101.39	101.45
18	100.68	100.77	100.85	100.93	100.99	101.05	101.11	101.18	101.25	101.32	101.39	101.45
19	100.69	100.77	100.85	100.93	100.99	101.06	101.12	101.18	101.25	101.32	101.40	101.45
20	100.69	100.78	100.86	100.93	100.99	101.06	101.12	101.18	101.25	101.32	101.40	101.45
21	100.69	100.78	100.86	100.93	101.00	101.06	101.12	101.19	101.25	101.33	101.40	101.45
22	100.70	100.78	100.86	100.93	101.00	101.06	101.12	101.19	101.26	101.33	101.40	101.45
23	100.70	100.79	100.86	100.94	101.00	101.06	101.13	101.19	101.26	101.33	101.40	101.46
24	100.70	100.79	100.87	100.94	101.00	101.07	101.13	101.19	101.26	101.33	101.40	101.46
25	100.71	100.79	100.87	100.94	101.00	101.07	101.13	101.20	101.27	101.34	101.40	101.46
26	100.71	100.79	100.87	100.95	101.01	101.07	101.13	101.20	101.27	101.34	101.41	101.47
27	100.71	100.79	100.88	100.95	101.01	101.07	101.13	101.20	101.27	101.34	101.41	101.47
28	100.71	100.80	100.88	100.95	101.01	101.07	101.13	101.20	101.27	101.34	101.41	101.47
29	100.72	---	100.88	100.95	101.01	101.08	101.14	101.21	101.28	101.34	101.42	101.47
30	100.72	---	100.88	100.95	101.01	101.08	101.14	101.21	101.28	101.35	101.42	101.47
31	100.72	---	100.88	---	101.02	---	101.14	101.21	---	101.35	---	101.48
Max	100.72	100.80	100.88	100.95	101.02	101.08	101.14	101.21	101.28	101.35	101.42	101.48
Min	100.63	100.73	100.80	100.89	100.96	101.02	101.08	101.14	101.21	101.28	101.35	101.42

Year 2015 Statistics: Year Max 101.48; Year Min 100.63

Note: Water level in ft bgs





**Table B-6
Spring Valley Well 390803114251001, Calendar Year 2015
Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	40.22	40.24	40.27	40.30	40.36	40.42	40.48	40.51	40.55	40.59	40.62	40.66
2	40.21	40.24	40.27	40.30	40.36	40.42	40.48	40.51	40.55	40.58	40.63	40.66
3	40.22	40.25	40.27	40.30	40.36	40.42	40.48	40.51	40.55	40.58	40.62	40.66
4	40.22	40.24	40.27	40.30	40.36	40.42	40.48	40.51	40.55	40.59	40.63	40.66
5	40.22	40.25	40.27	40.30	40.36	40.43	40.49	40.52	40.55	40.59	40.63	40.66
6	40.22	40.24	40.27	40.31	40.37	40.43	40.49	40.52	40.55	40.59	40.63	40.67
7	40.22	40.25	40.27	40.30	40.37	40.43	40.49	40.50	40.56	40.59	40.63	40.67
8	40.20	40.25	40.27	40.31	40.37	40.43	40.49	40.52	40.56	40.59	40.63	40.67
9	40.22	40.25	40.28	40.32	40.37	40.43	40.49	40.52	40.56	40.60	40.63	40.67
10	40.22	40.25	40.28	40.31	40.37	40.43	40.49	40.52	40.56	40.59	40.63	40.67
11	40.23	40.25	40.28	40.32	40.38	40.44	40.49	40.52	40.56	40.60	40.63	40.67
12	40.23	40.26	40.28	40.32	40.38	40.44	40.49	40.52	40.56	40.60	40.64	40.67
13	40.22	40.25	40.28	40.32	40.38	40.44	40.49	40.53	40.56	40.60	40.64	40.67
14	40.23	40.25	40.28	40.32	40.38	40.44	40.49	40.52	40.56	40.60	40.64	40.68
15	40.23	40.25	40.28	40.32	40.38	40.45	40.49	40.52	40.56	40.60	40.64	40.68
16	40.23	40.26	40.28	40.33	40.38	40.45	40.49	40.53	40.56	40.60	40.64	40.68
17	40.23	40.26	40.28	40.33	40.39	40.45	40.50	40.53	40.57	40.60	40.65	40.68
18	40.23	40.26	40.28	40.33	40.39	40.45	40.50	40.53	40.57	40.60	40.65	40.68
19	40.23	40.26	40.28	40.33	40.39	40.45	40.50	40.53	40.57	40.61	40.65	40.68
20	40.23	40.26	40.28	40.34	40.39	40.45	40.50	40.53	40.57	40.61	40.65	40.68
21	40.23	40.26	40.29	40.33	40.39	40.46	40.50	40.54	40.57	40.61	40.65	40.68
22	40.24	40.26	40.29	40.34	40.40	40.44	40.50	40.53	40.57	40.61	40.65	40.68
23	40.23	40.26	40.29	40.34	40.40	40.46	40.50	40.54	40.57	40.61	40.65	40.68
24	40.24	40.26	40.29	40.34	40.40	40.46	40.50	40.53	40.56	40.61	40.65	40.69
25	40.24	40.27	40.29	40.35	40.40	40.47	40.50	40.54	40.57	40.61	40.65	40.69
26	40.24	40.26	40.29	40.35	40.41	40.47	40.51	40.54	40.58	40.62	40.65	40.69
27	40.24	40.27	40.29	40.35	40.41	40.47	40.51	40.54	40.58	40.61	40.66	40.69
28	40.24	40.27	40.29	40.35	40.41	40.47	40.51	40.54	40.58	40.62	40.66	40.69
29	40.24	---	40.29	40.34	40.41	40.47	40.51	40.54	40.58	40.62	40.66	40.69
30	40.24	---	40.30	40.35	40.41	40.48	40.51	40.54	40.58	40.62	40.65	40.69
31	40.24	---	40.29	---	40.42	---	40.51	40.54	---	40.62	---	40.69
Max	40.24	40.27	40.30	40.35	40.42	40.48	40.51	40.54	40.58	40.62	40.66	40.69
Min	40.20	40.24	40.27	40.30	40.36	40.42	40.48	40.50	40.55	40.58	40.62	40.66

Year 2015 Statistics: Year Max 40.69; Year Min 40.20
 Note: Water level in ft bgs

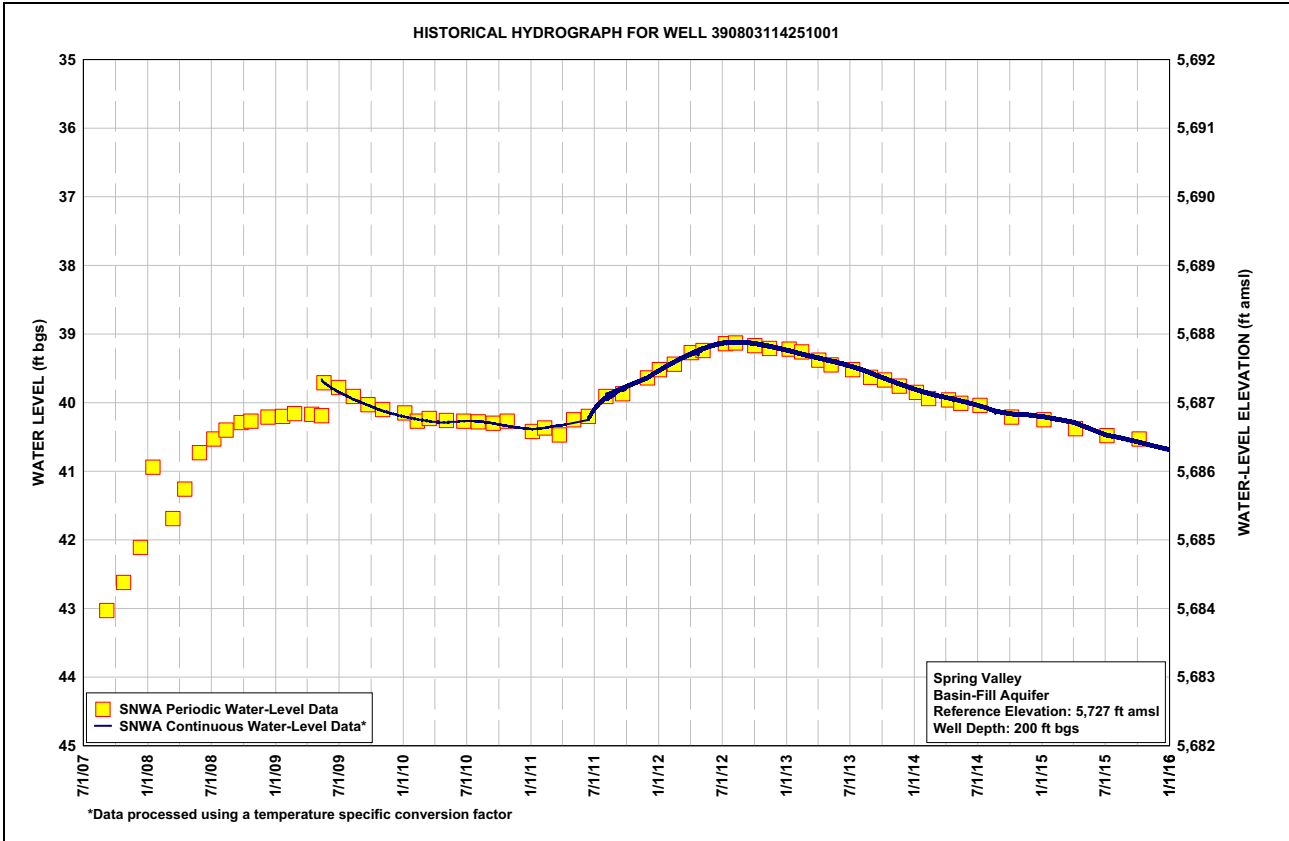
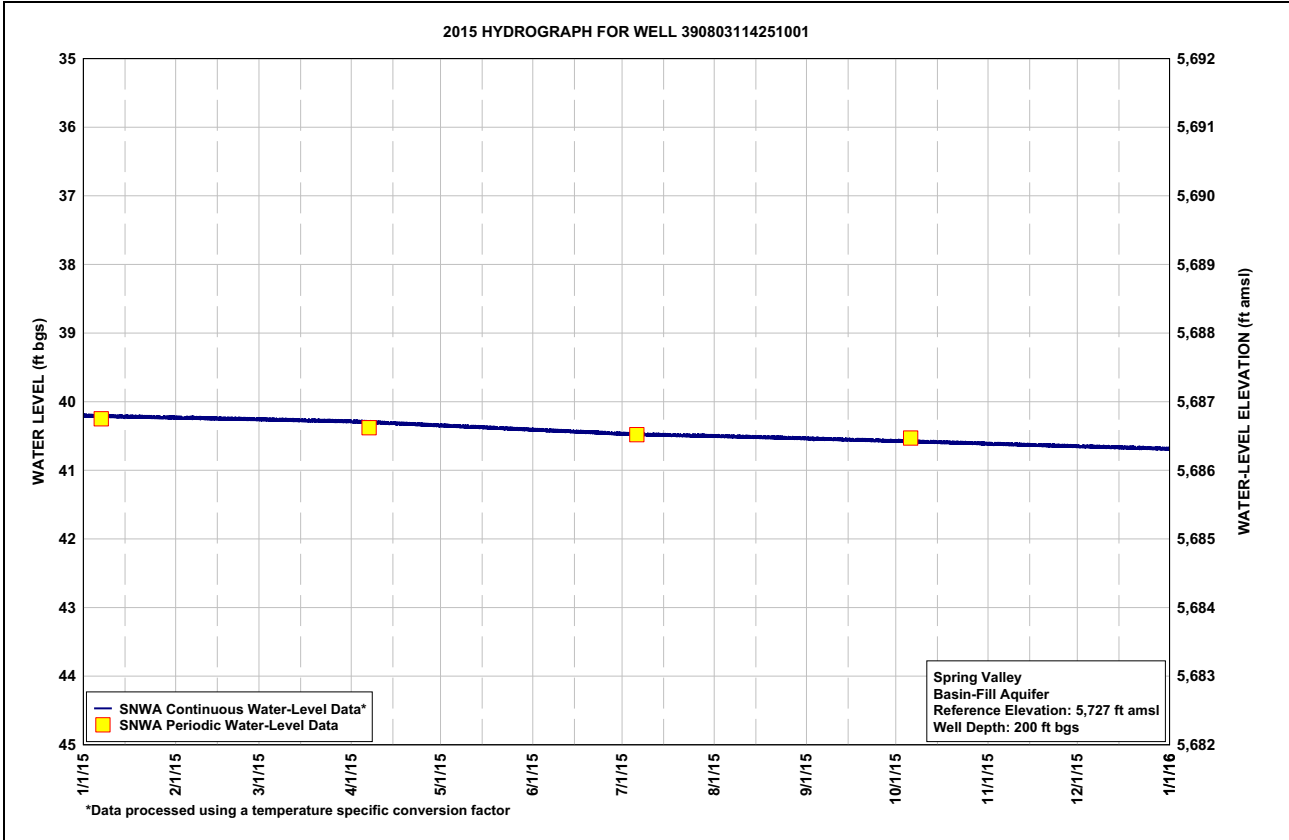


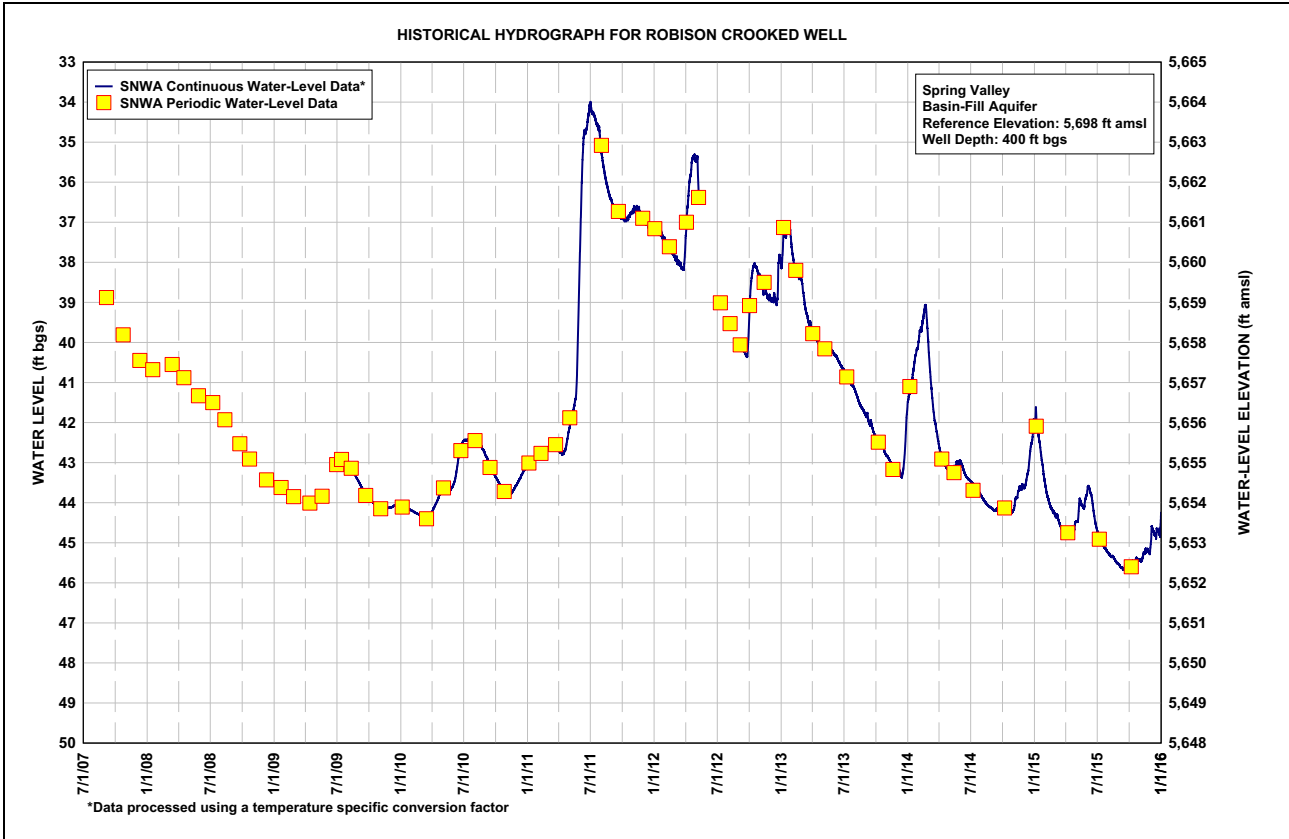
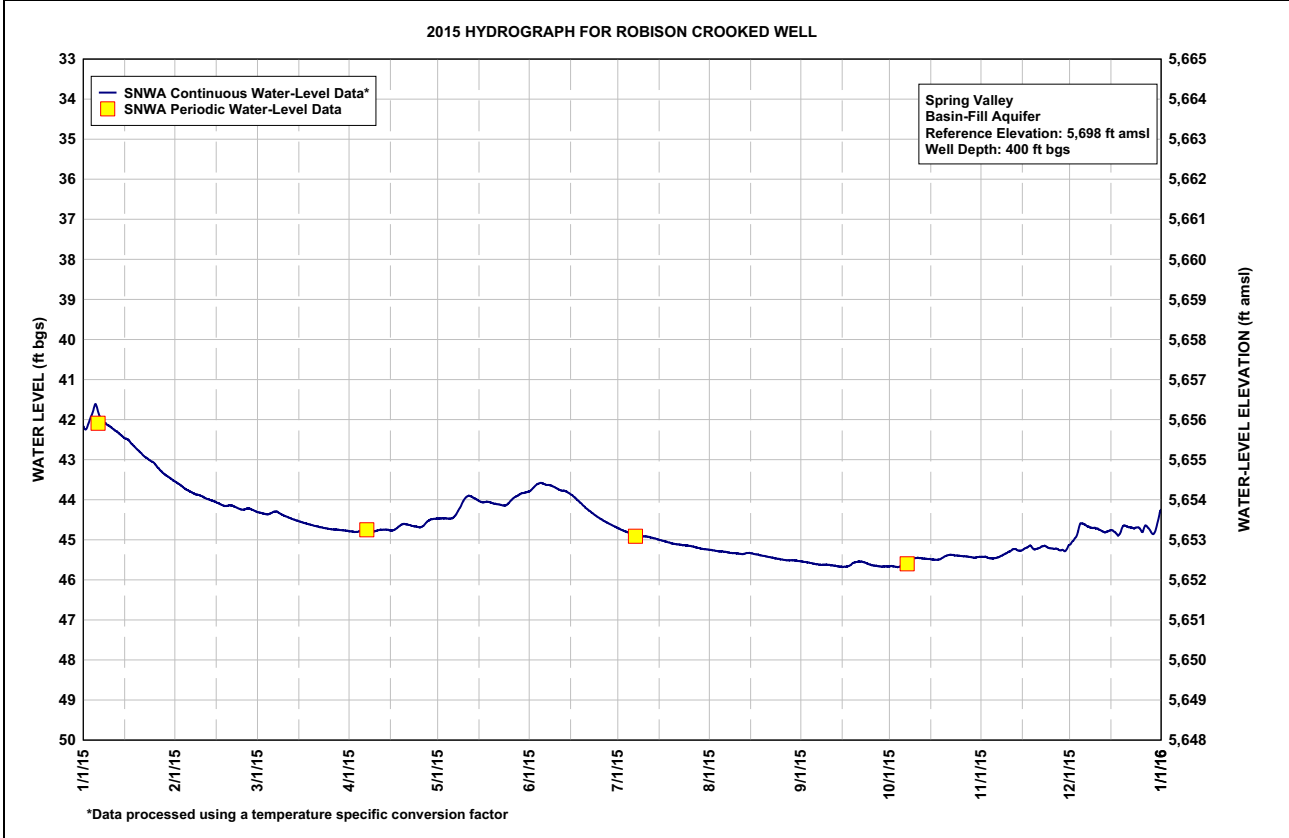


Table B-7
Spring Valley Robison Crooked Well, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	42.23	43.56	44.32	44.79	44.47	43.77	44.72	45.25	45.54	45.66	45.43	45.09
2	42.15	43.61	44.33	44.80	44.47	43.70	44.76	45.27	45.55	45.67	45.43	45.00
3	41.95	43.66	44.35	44.80	44.46	43.63	44.79	45.28	45.57	45.68	45.45	44.89
4	41.75	43.73	44.36	44.78	44.47	43.59	44.81	45.29	45.58	45.67	45.46	44.61
5	41.66	43.76	44.34	44.77	44.47	43.59	44.83	45.29	45.60	45.61	45.46	44.60
6	41.90	43.80	44.30	44.77	44.43	43.62	44.85	45.30	45.61	45.53	45.44	44.63
7	42.03	43.85	44.30	44.78	44.34	43.63	44.87	45.31	45.62	45.49	45.41	44.67
8	42.09	43.87	44.34	44.79	44.21	43.65	44.90	45.33	45.62	45.47	45.37	44.70
9	42.14	43.89	44.38	44.79	44.06	43.68	44.91	45.34	45.62	45.46	45.34	44.70
10	42.19	43.92	44.41	44.77	43.95	43.72	44.92	45.34	45.63	45.45	45.30	44.72
11	42.25	43.96	44.44	44.75	43.91	43.76	44.93	45.35	45.64	45.46	45.25	44.76
12	42.30	43.99	44.47	44.75	43.92	43.77	44.95	45.36	45.65	45.47	45.23	44.80
13	42.37	44.02	44.50	44.75	43.96	43.79	44.96	45.33	45.66	45.47	45.26	44.80
14	42.43	44.05	44.52	44.75	44.00	43.84	44.98	45.33	45.67	45.48	45.27	44.77
15	42.48	44.08	44.55	44.77	44.05	43.88	45.01	45.34	45.67	45.49	45.23	44.76
16	42.52	44.11	44.57	44.75	44.06	43.95	45.03	45.36	45.67	45.50	45.19	44.82
17	42.61	44.15	44.59	44.69	44.05	44.02	45.05	45.37	45.64	45.49	45.15	44.88
18	42.68	44.15	44.61	44.64	44.06	44.08	45.07	45.39	45.59	45.47	45.21	44.77
19	42.76	44.14	44.63	44.61	44.08	44.15	45.09	45.40	45.56	45.43	45.23	44.65
20	42.83	44.15	44.65	44.61	44.10	44.22	45.11	45.42	45.55	45.39	45.21	44.67
21	42.91	44.18	44.67	44.63	44.11	44.28	45.11	45.43	45.55	45.38	45.17	44.69
22	42.96	44.22	44.69	44.65	44.13	44.34	45.12	45.45	45.56	45.38	45.16	44.71
23	43.01	44.24	44.71	44.67	44.14	44.39	45.14	45.46	45.59	45.39	45.19	44.70
24	43.06	44.24	44.72	44.68	44.12	44.44	45.14	45.48	45.62	45.40	45.21	44.70
25	43.13	44.22	44.73	44.68	44.05	44.49	45.15	45.49	45.64	45.41	45.22	44.79
26	43.21	44.23	44.74	44.63	43.97	44.53	45.17	45.50	45.65	45.41	45.22	44.66
27	43.29	44.26	44.74	44.55	43.92	44.57	45.19	45.51	45.66	45.42	45.26	44.69
28	43.36	44.29	44.75	44.50	43.88	44.61	45.20	45.51	45.67	45.43	45.26	44.79
29	43.41	---	44.76	44.48	43.84	44.65	45.22	45.51	45.66	45.45	45.27	44.85
30	43.46	---	44.77	44.47	43.82	44.68	45.23	45.52	45.66	45.43	45.17	44.67
31	43.52	---	44.78	---	43.80	---	45.24	45.53	---	45.43	---	44.35
Max	43.52	44.29	44.78	44.80	44.47	44.68	45.24	45.53	45.67	45.68	45.46	45.09
Min	41.66	43.56	44.30	44.47	43.80	43.59	44.72	45.25	45.54	45.38	45.15	44.35

Year 2015 Statistics: Year Max 45.68; Year Min 41.66

Note: Water level in ft bgs





**Table B-8
Hamlin Valley Well 383023114115302, Calendar Year 2015
Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	177.41	177.79	177.87	177.89	177.95	178.01	178.08	178.10	178.16	178.20	178.27	178.43
2	177.59	177.78	177.65	177.90	177.95	178.03	178.08	178.09	178.15	178.20	178.22	178.54
3	177.61	177.79	177.70	177.99	177.97	178.02	178.06	178.11	178.14	178.18	178.29	178.55
4	177.63	177.78	177.76	177.98	177.95	178.03	178.07	178.11	178.14	178.22	178.31	178.49
5	177.64	177.81	177.89	177.95	177.96	178.05	178.08	178.11	178.17	178.24	178.34	178.47
6	177.66	177.80	177.90	177.99	177.94	178.04	178.09	178.11	178.16	178.24	178.33	178.60
7	177.64	177.73	177.91	177.88	177.94	178.06	178.07	178.10	178.17	178.25	178.30	178.58
8	177.63	177.64	177.92	177.90	177.96	178.05	178.06	178.12	178.18	178.24	178.28	178.47
9	177.65	177.61	177.94	177.97	177.98	178.03	178.07	178.13	178.17	178.24	178.27	178.57
10	177.65	177.81	177.93	177.92	177.97	178.03	178.09	178.12	178.18	178.22	178.31	178.56
11	177.67	177.84	177.97	178.03	177.97	178.05	178.09	178.13	178.18	178.24	178.36	178.61
12	177.65	177.84	177.99	177.97	177.97	178.04	178.09	178.14	178.17	178.25	178.33	178.67
13	177.67	177.85	177.99	177.93	177.97	178.04	178.08	178.13	178.15	178.25	178.33	178.59
14	177.69	177.83	177.99	178.01	178.01	178.06	178.08	178.12	178.14	178.25	178.30	178.48
15	177.67	177.83	177.98	177.97	177.98	178.05	178.09	178.13	178.16	178.25	178.25	178.52
16	177.64	177.67	177.79	177.98	178.01	178.06	178.09	178.13	178.18	178.25	178.37	178.66
17	177.63	177.67	177.80	177.93	178.03	178.07	178.08	178.12	178.18	178.24	178.36	178.68
18	177.68	177.67	177.99	177.91	178.01	178.06	178.11	178.14	178.20	178.24	178.35	178.67
19	177.67	177.63	177.99	177.91	177.99	178.05	178.11	178.13	178.19	178.24	178.35	178.65
20	177.67	177.64	177.99	177.90	178.00	178.06	178.08	178.12	178.19	178.27	178.38	178.72
21	177.69	177.82	177.81	177.90	177.99	178.06	178.07	178.13	178.18	178.27	178.36	178.67
22	177.71	177.70	177.84	177.90	178.00	178.07	178.08	178.16	178.19	178.26	178.34	178.61
23	177.68	177.89	177.94	177.90	178.00	178.06	178.11	178.15	178.21	178.29	178.32	178.54
24	177.58	177.85	177.87	177.91	178.01	178.07	178.11	178.15	178.22	178.27	178.33	178.52
25	177.74	177.69	177.87	177.90	178.01	178.09	178.09	178.15	178.20	178.26	178.41	178.58
26	177.73	177.65	177.86	177.96	178.03	178.08	178.08	178.15	178.19	178.27	178.42	178.58
27	177.71	177.63	177.98	177.97	178.02	178.07	178.10	178.15	178.19	178.29	178.39	178.54
28	177.62	177.66	177.99	177.94	178.02	178.07	178.14	178.14	178.21	178.25	178.41	178.67
29	177.60	---	177.90	177.94	178.03	178.08	178.12	178.13	178.21	178.28	178.55	178.72
30	177.69	---	177.86	177.95	178.02	178.08	178.12	178.14	178.20	178.31	178.42	178.59
31	177.76	---	177.84	---	178.02	---	178.11	178.15	---	178.30	---	178.58
Max	177.76	177.89	177.99	178.03	178.03	178.09	178.14	178.16	178.22	178.31	178.55	178.72
Min	177.41	177.61	177.65	177.88	177.94	178.01	178.06	178.09	178.14	178.18	178.22	178.43

Year 2015 Statistics: Year Max 178.72; Year Min 177.41

Note: Water level in ft bgs

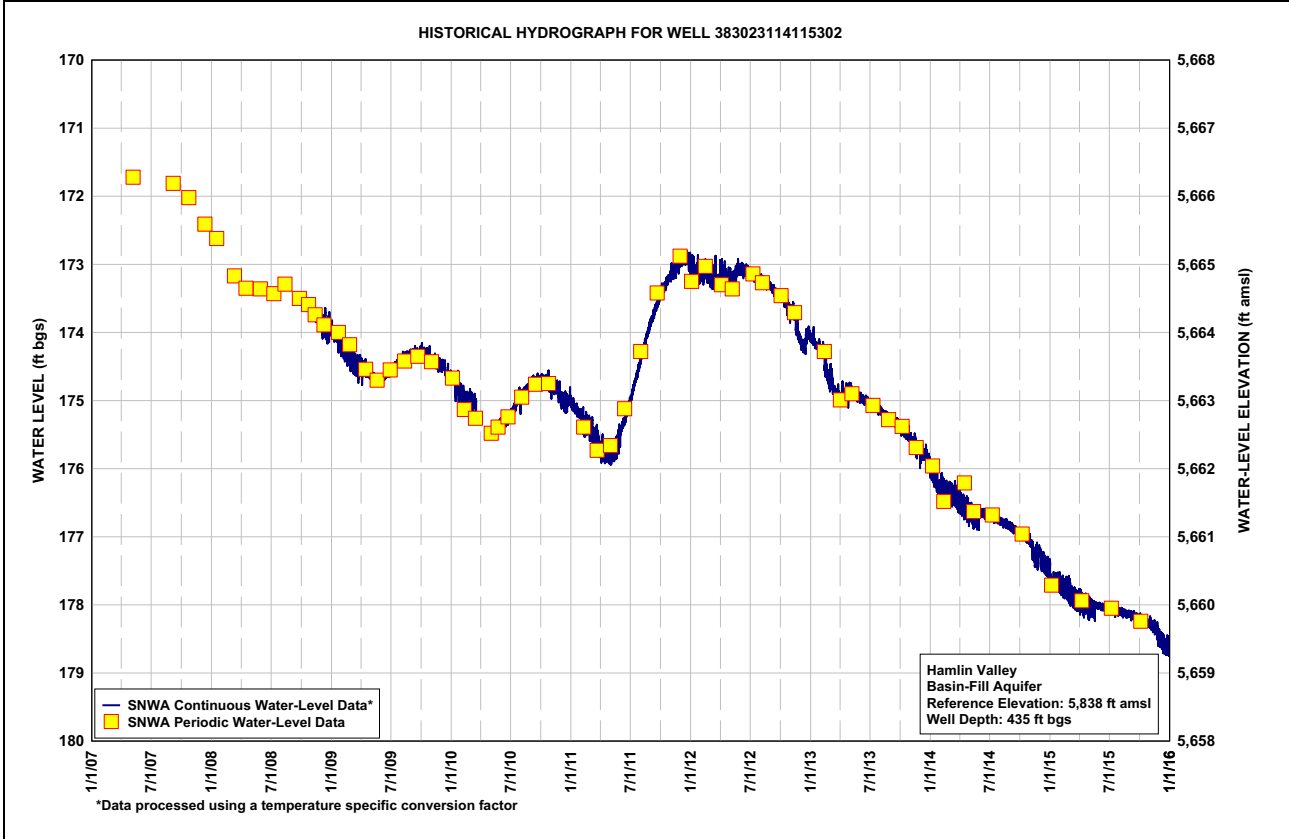
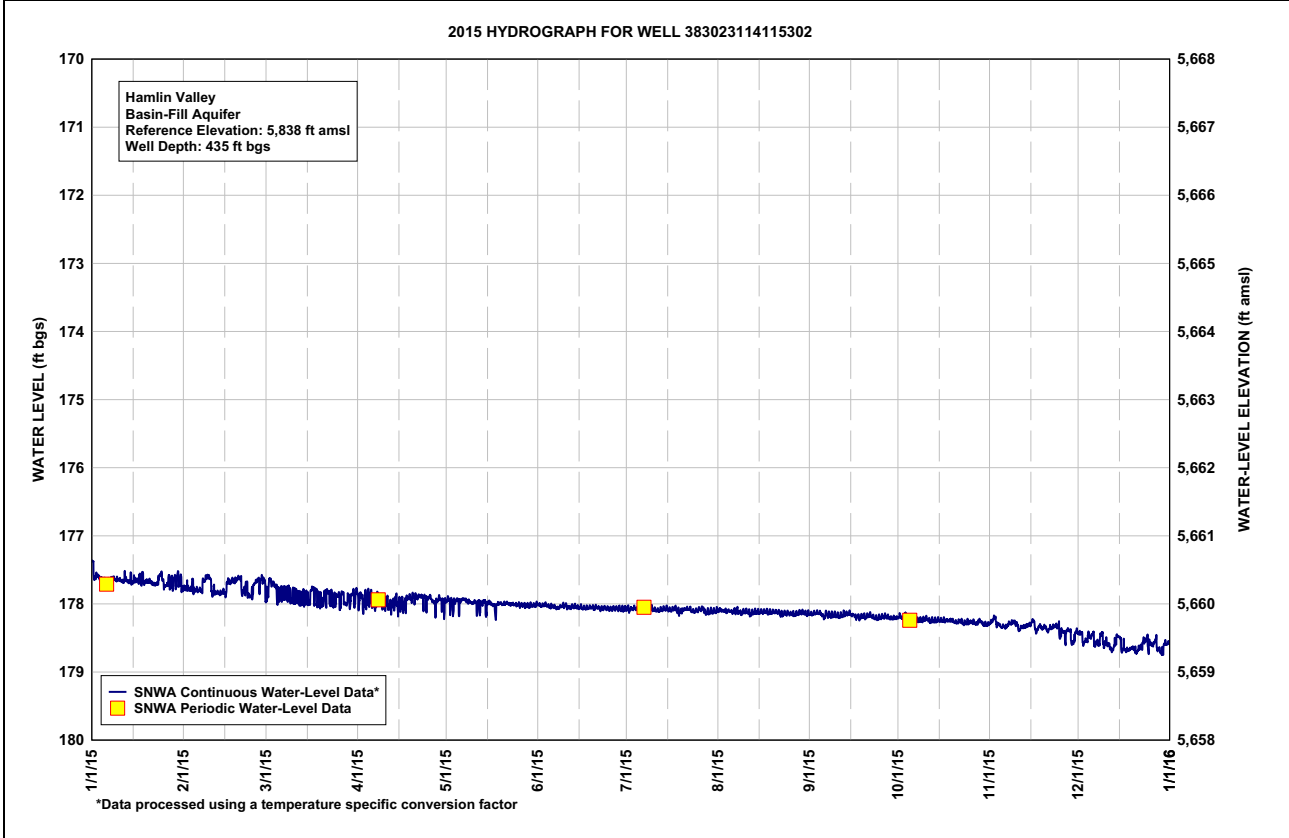




Table B-9
Spring Valley Well 184W502M Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	485.89	486.13	486.25	486.24	486.51	486.56	486.77	486.83	486.89	486.92	487.04	487.27
2	485.94	486.11	486.04	486.37	486.45	486.56	486.77	486.80	486.89	486.91	486.76	487.29
3	485.97	486.09	486.18	486.48	486.44	486.55	486.71	486.80	486.82	486.82	486.89	487.16
4	486.14	486.14	486.37	486.29	486.46	486.56	486.72	486.84	486.81	486.91	487.01	487.10
5	486.16	486.14	486.47	486.14	486.42	486.64	486.76	486.84	486.91	487.04	487.21	487.39
6	486.14	486.10	486.41	486.23	486.41	486.66	486.82	486.83	487.00	487.11	487.27	487.29
7	486.05	486.11	486.29	486.26	486.37	486.75	486.76	486.82	486.97	487.15	487.20	487.22
8	485.91	486.16	486.21	486.40	486.45	486.78	486.67	486.85	486.99	487.16	487.04	487.19
9	485.89	486.10	486.24	486.49	486.55	486.64	486.69	486.90	486.99	487.11	486.90	487.11
10	485.88	486.16	486.28	486.43	486.61	486.59	486.74	486.87	486.98	487.05	486.97	486.95
11	485.96	486.29	486.30	486.38	486.52	486.67	486.82	486.88	487.01	487.04	487.24	486.90
12	486.00	486.25	486.38	486.51	486.43	486.66	486.84	486.97	486.95	487.08	487.20	487.17
13	486.02	486.22	486.41	486.49	486.48	486.63	486.80	486.94	486.88	487.08	487.15	487.05
14	486.11	486.12	486.37	486.30	486.42	486.65	486.73	486.89	486.80	487.06	487.04	486.98
15	486.14	486.11	486.30	486.47	486.43	486.69	486.78	486.89	486.84	487.02	486.83	487.21
16	486.03	486.08	486.24	486.42	486.54	486.70	486.81	486.87	486.90	487.00	486.89	487.27
17	486.11	486.18	486.21	486.46	486.63	486.72	486.77	486.82	486.95	486.97	487.23	487.33
18	486.08	486.21	486.23	486.41	486.60	486.73	486.82	486.86	487.03	486.93	487.17	487.28
19	486.01	486.13	486.33	486.43	486.56	486.71	486.93	486.85	487.01	486.92	487.20	487.13
20	486.00	486.07	486.35	486.36	486.57	486.72	486.88	486.84	487.00	487.03	487.21	487.18
21	486.06	486.04	486.28	486.36	486.55	486.71	486.78	486.83	486.90	487.05	487.32	487.20
22	486.14	486.09	486.29	486.36	486.53	486.76	486.75	486.91	486.93	487.02	487.17	486.91
23	486.16	486.20	486.27	486.38	486.56	486.77	486.83	486.96	487.02	487.10	487.03	487.10
24	486.16	486.29	486.33	486.35	486.59	486.76	486.87	486.96	487.06	487.10	486.90	487.12
25	486.14	486.21	486.48	486.35	486.61	486.78	486.83	486.95	487.04	487.07	486.86	487.23
26	486.06	486.08	486.49	486.53	486.63	486.79	486.76	486.95	486.97	487.02	487.14	487.51
27	486.04	485.99	486.39	486.64	486.66	486.77	486.79	486.98	486.93	487.06	487.15	487.37
28	486.09	485.98	486.32	486.58	486.65	486.74	486.93	486.91	486.98	486.98	487.16	487.02
29	486.10	---	486.41	486.49	486.67	486.76	486.94	486.86	486.99	486.95	487.17	487.23
30	485.92	---	486.33	486.49	486.65	486.78	486.92	486.83	486.98	487.07	487.18	487.34
31	485.98	---	486.24	---	486.61	---	486.88	486.90	---	487.14	---	487.45
Max	486.16	486.29	486.49	486.64	486.67	486.79	486.94	486.98	487.06	487.16	487.32	487.51
Min	485.88	485.98	486.04	486.14	486.37	486.55	486.67	486.80	486.80	486.82	486.76	486.90

Year 2015 Statistics: Year Max 487.51; Year Min 485.88

Note: Water level in ft bgs

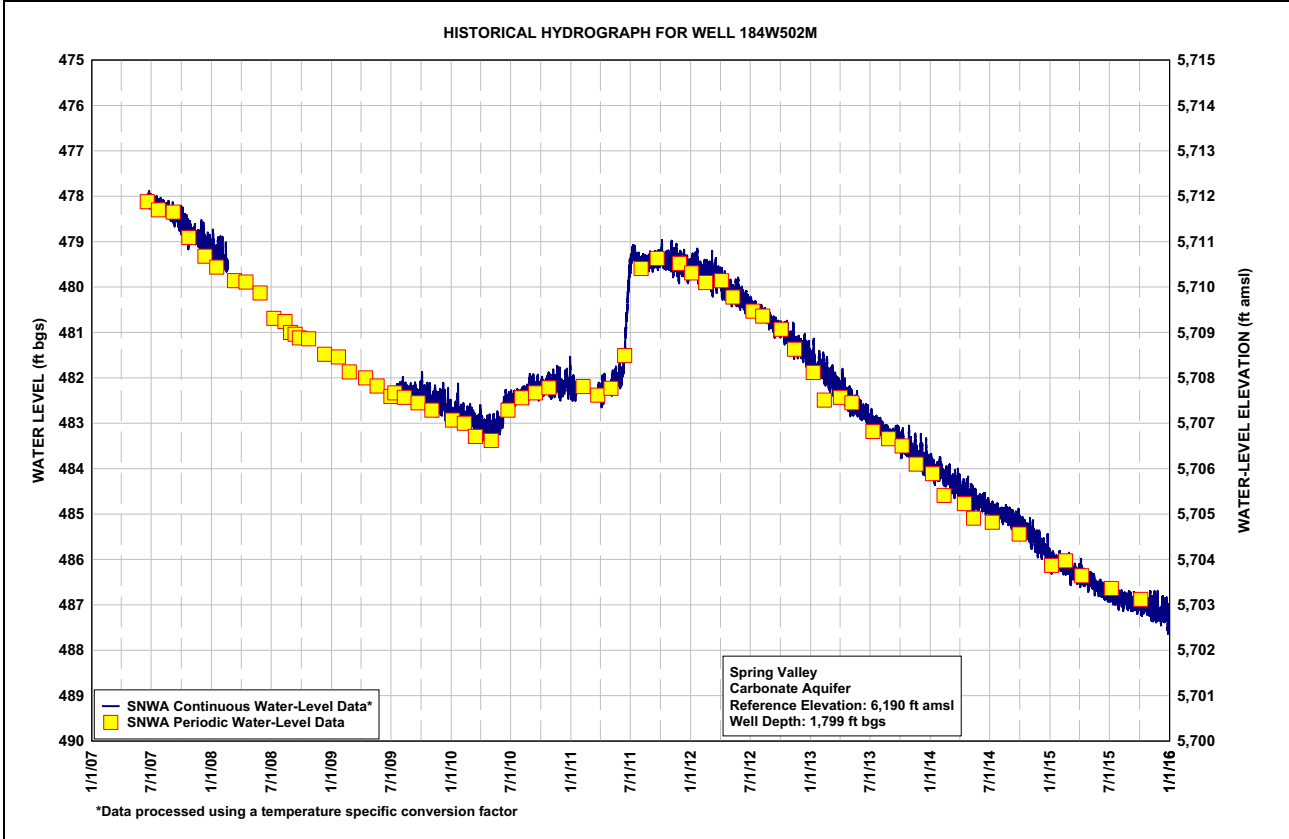
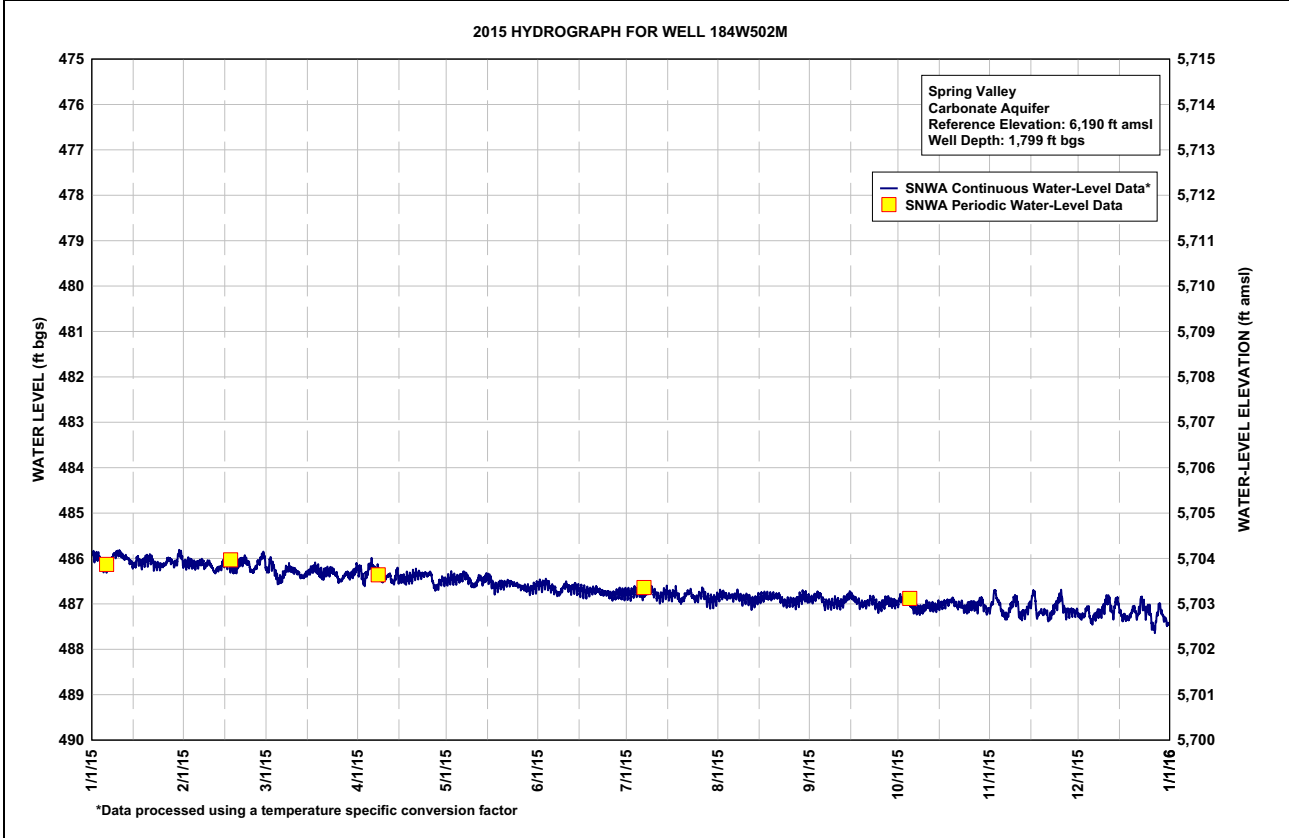




Table B-10
Spring Valley Well 184W504M, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	100.70	100.73	100.69	100.69	100.71	100.72	100.80	100.84	100.90	100.92	100.97	101.06
2	100.70	100.72	100.61	100.73	100.70	100.74	100.79	100.83	100.89	100.95	100.89	101.05
3	100.71	100.71	100.67	100.73	100.70	100.72	100.78	100.84	100.87	100.91	100.97	101.01
4	100.75	100.72	100.73	100.67	100.71	100.73	100.78	100.84	100.88	100.96	100.99	101.01
5	100.75	100.72	100.74	100.63	100.70	100.75	100.80	100.85	100.92	100.99	101.04	101.09
6	100.74	100.71	100.72	100.68	100.69	100.76	100.83	100.85	100.93	101.00	101.04	101.04
7	100.72	100.71	100.68	100.66	100.68	100.79	100.78	100.86	100.94	101.01	101.01	101.03
8	100.68	100.72	100.68	100.72	100.70	100.78	100.77	100.87	100.95	101.00	100.97	101.02
9	100.69	100.71	100.69	100.72	100.73	100.74	100.78	100.88	100.93	101.00	100.94	100.99
10	100.69	100.74	100.70	100.70	100.74	100.74	100.80	100.87	100.94	100.98	100.98	100.93
11	100.71	100.76	100.72	100.69	100.71	100.76	100.82	100.88	100.95	100.98	101.04	100.95
12	100.71	100.75	100.73	100.74	100.69	100.75	100.83	100.90	100.93	100.99	101.03	101.03
13	100.72	100.74	100.73	100.71	100.70	100.75	100.80	100.89	100.91	101.00	101.00	100.94
14	100.74	100.70	100.72	100.66	100.69	100.76	100.80	100.88	100.88	100.99	100.96	100.98
15	100.75	100.72	100.71	100.73	100.69	100.77	100.82	100.88	100.90	100.98	100.90	101.04
16	100.70	100.70	100.69	100.71	100.73	100.78	100.83	100.88	100.92	100.97	101.00	101.04
17	100.74	100.73	100.67	100.72	100.75	100.78	100.81	100.87	100.93	100.96	101.02	101.05
18	100.72	100.72	100.70	100.71	100.74	100.77	100.84	100.87	100.96	100.95	101.00	101.04
19	100.70	100.65	100.72	100.71	100.73	100.77	100.85	100.86	100.96	100.96	101.03	101.00
20	100.70	100.64	100.70	100.68	100.73	100.78	100.83	100.86	100.95	101.00	101.06	101.03
21	100.73	100.63	100.69	100.70	100.72	100.77	100.80	100.87	100.93	100.99	101.05	101.01
22	100.74	100.65	100.70	100.69	100.72	100.78	100.81	100.91	100.95	100.98	101.01	100.93
23	100.74	100.70	100.70	100.69	100.73	100.77	100.84	100.91	100.97	101.01	100.98	101.01
24	100.74	100.70	100.71	100.68	100.74	100.78	100.85	100.91	100.98	101.00	100.93	100.98
25	100.74	100.67	100.75	100.67	100.74	100.79	100.82	100.90	100.96	100.99	100.97	101.06
26	100.71	100.64	100.74	100.75	100.76	100.79	100.81	100.91	100.95	100.98	101.02	101.10
27	100.72	100.60	100.71	100.75	100.76	100.79	100.83	100.91	100.93	101.00	101.00	101.00
28	100.73	100.64	100.71	100.73	100.74	100.78	100.88	100.89	100.96	100.95	101.01	100.96
29	100.72	---	100.72	100.71	100.76	100.80	100.87	100.88	100.96	100.98	101.02	101.05
30	100.65	---	100.70	100.71	100.75	100.80	100.87	100.87	100.95	101.00	101.02	101.07
31	100.70	---	100.67	---	100.73	---	100.86	100.90	---	101.01	---	101.09
Max	100.75	100.76	100.75	100.75	100.76	100.80	100.88	100.91	100.98	101.01	101.06	101.10
Min	100.65	100.60	100.61	100.63	100.68	100.72	100.77	100.83	100.87	100.91	100.89	100.93

Year 2015 Statistics: Year Max 101.10; Year Min 100.60

Note: Water level in ft bgs

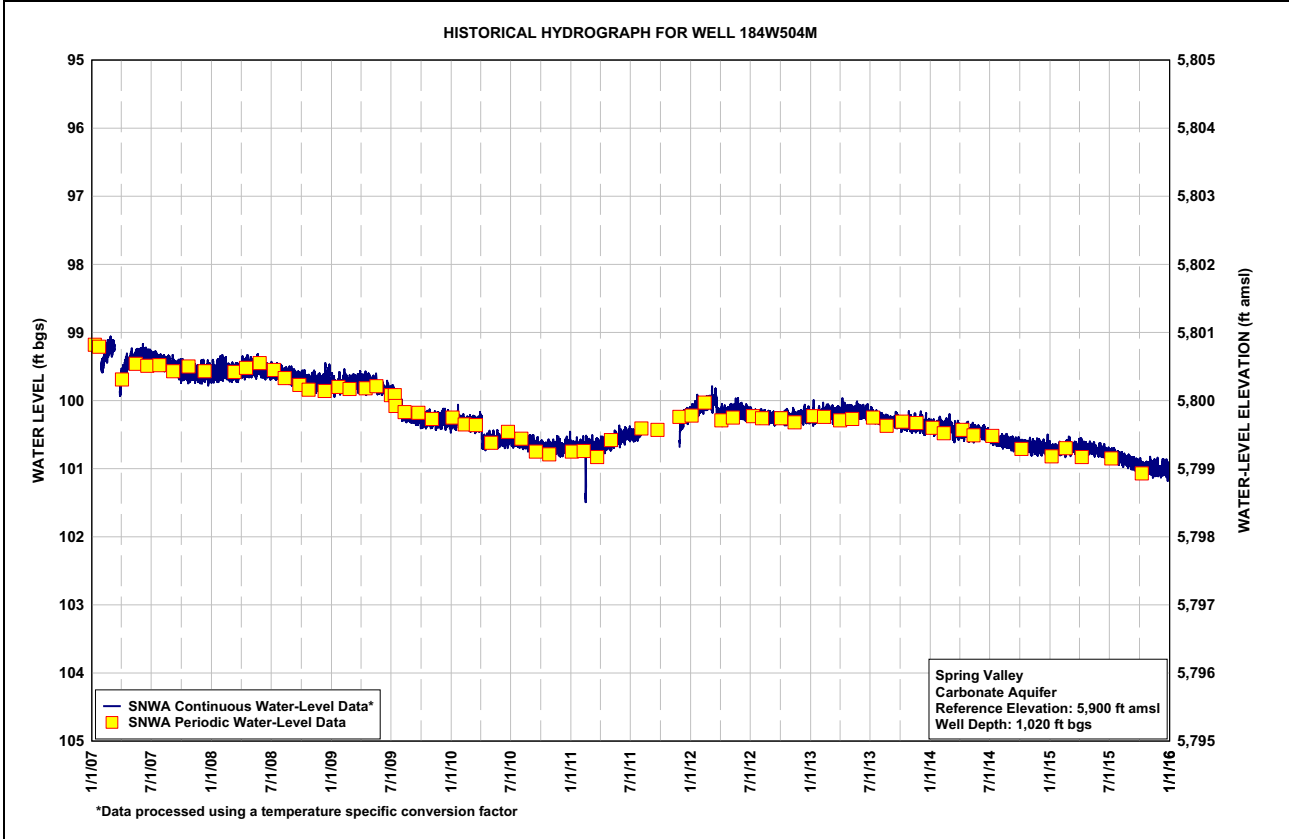
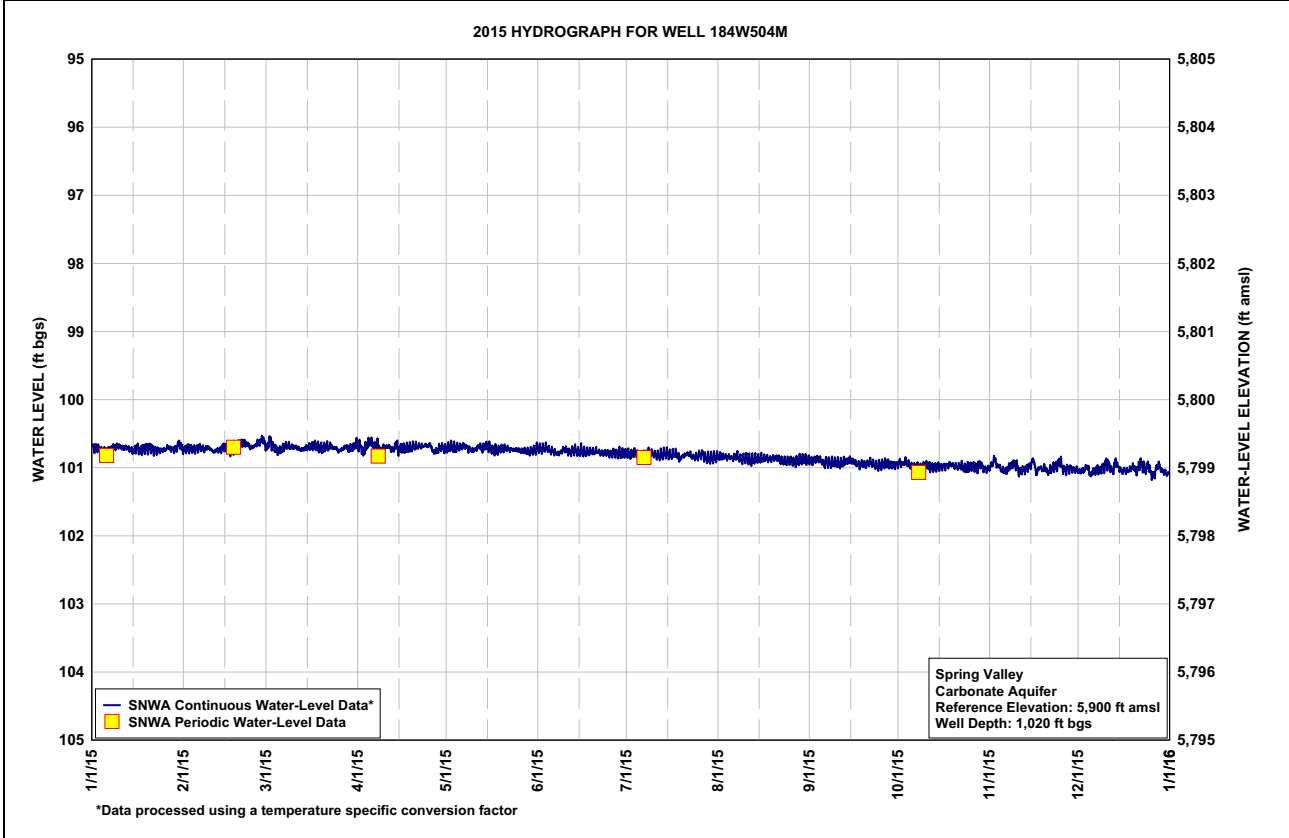




Table B-11
Spring Valley Well 184W506M, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	216.16	216.25	216.29	216.36	216.40	216.42	216.47	216.50	216.53	216.57	216.63	216.70
2	216.17	216.25	216.27	216.38	216.39	216.43	216.48	216.50	216.53	216.58	216.60	216.70
3	216.19	216.25	216.29	216.39	216.39	216.42	216.47	216.50	216.52	216.56	216.61	216.69
4	216.21	216.26	216.32	216.35	216.40	216.43	216.47	216.51	216.52	216.58	216.63	216.69
5	216.21	216.25	216.34	216.33	216.39	216.43	216.47	216.50	216.54	216.59	216.66	216.73
6	216.22	216.25	216.33	216.35	216.39	216.44	216.48	216.50	216.55	216.61	216.66	216.71
7	216.21	216.26	216.31	216.35	216.38	216.45	216.47	216.50	216.55	216.61	216.65	216.71
8	216.19	216.26	216.31	216.37	216.39	216.45	216.46	216.51	216.56	216.61	216.63	216.70
9	216.19	216.25	216.32	216.38	216.40	216.44	216.46	216.51	216.56	216.61	216.62	216.70
10	216.19	216.27	216.33	216.37	216.41	216.44	216.47	216.51	216.56	216.60	216.64	216.66
11	216.20	216.29	216.33	216.37	216.40	216.44	216.48	216.51	216.56	216.61	216.67	216.67
12	216.20	216.29	216.34	216.39	216.38	216.44	216.48	216.52	216.56	216.61	216.67	216.70
13	216.21	216.29	216.35	216.39	216.39	216.44	216.47	216.52	216.55	216.62	216.67	216.66
14	216.22	216.27	216.34	216.37	216.39	216.44	216.46	216.52	216.54	216.62	216.65	216.67
15	216.23	216.27	216.34	216.40	216.39	216.44	216.47	216.52	216.55	216.61	216.62	216.70
16	216.21	216.28	216.34	216.40	216.40	216.45	216.47	216.52	216.55	216.61	216.65	216.70
17	216.23	216.28	216.33	216.40	216.41	216.45	216.47	216.51	216.56	216.61	216.68	216.71
18	216.23	216.30	216.34	216.40	216.41	216.45	216.49	216.51	216.57	216.60	216.66	216.70
19	216.23	216.28	216.35	216.39	216.41	216.45	216.50	216.51	216.57	216.60	216.67	216.68
20	216.23	216.27	216.36	216.38	216.41	216.45	216.49	216.51	216.57	216.61	216.69	216.71
21	216.24	216.27	216.34	216.38	216.41	216.45	216.48	216.51	216.56	216.62	216.69	216.69
22	216.24	216.28	216.35	216.38	216.41	216.46	216.47	216.53	216.57	216.61	216.68	216.67
23	216.24	216.29	216.34	216.38	216.42	216.46	216.49	216.53	216.58	216.63	216.66	216.69
24	216.25	216.30	216.35	216.38	216.42	216.46	216.50	216.53	216.59	216.63	216.64	216.69
25	216.25	216.29	216.38	216.37	216.42	216.47	216.49	216.54	216.58	216.62	216.65	216.71
26	216.24	216.27	216.38	216.40	216.43	216.47	216.48	216.54	216.58	216.62	216.67	216.74
27	216.24	216.26	216.37	216.41	216.44	216.47	216.49	216.54	216.57	216.63	216.67	216.72
28	216.25	216.27	216.36	216.41	216.43	216.46	216.50	216.54	216.58	216.62	216.68	216.69
29	216.25	---	216.38	216.40	216.44	216.47	216.51	216.53	216.58	216.62	216.68	216.73
30	216.22	---	216.37	216.40	216.43	216.47	216.51	216.53	216.58	216.63	216.68	216.74
31	216.23	---	216.35	---	216.43	---	216.50	216.54	---	216.64	---	216.75
Max	216.25	216.30	216.38	216.41	216.44	216.47	216.51	216.54	216.59	216.64	216.69	216.75
Min	216.16	216.25	216.27	216.33	216.38	216.42	216.46	216.50	216.52	216.56	216.60	216.66

Year 2015 Statistics: Year Max 216.75; Year Min 216.16

Note: Water level in ft bgs

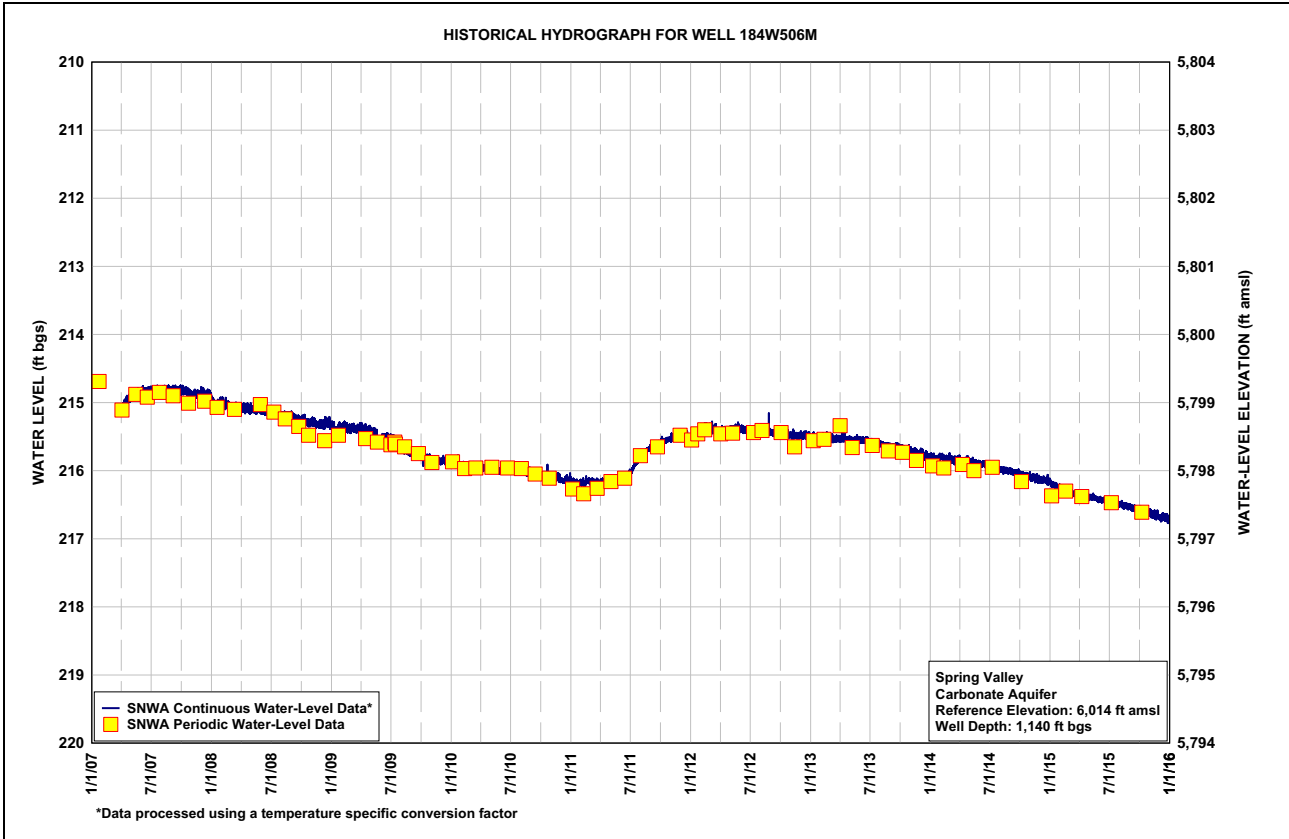
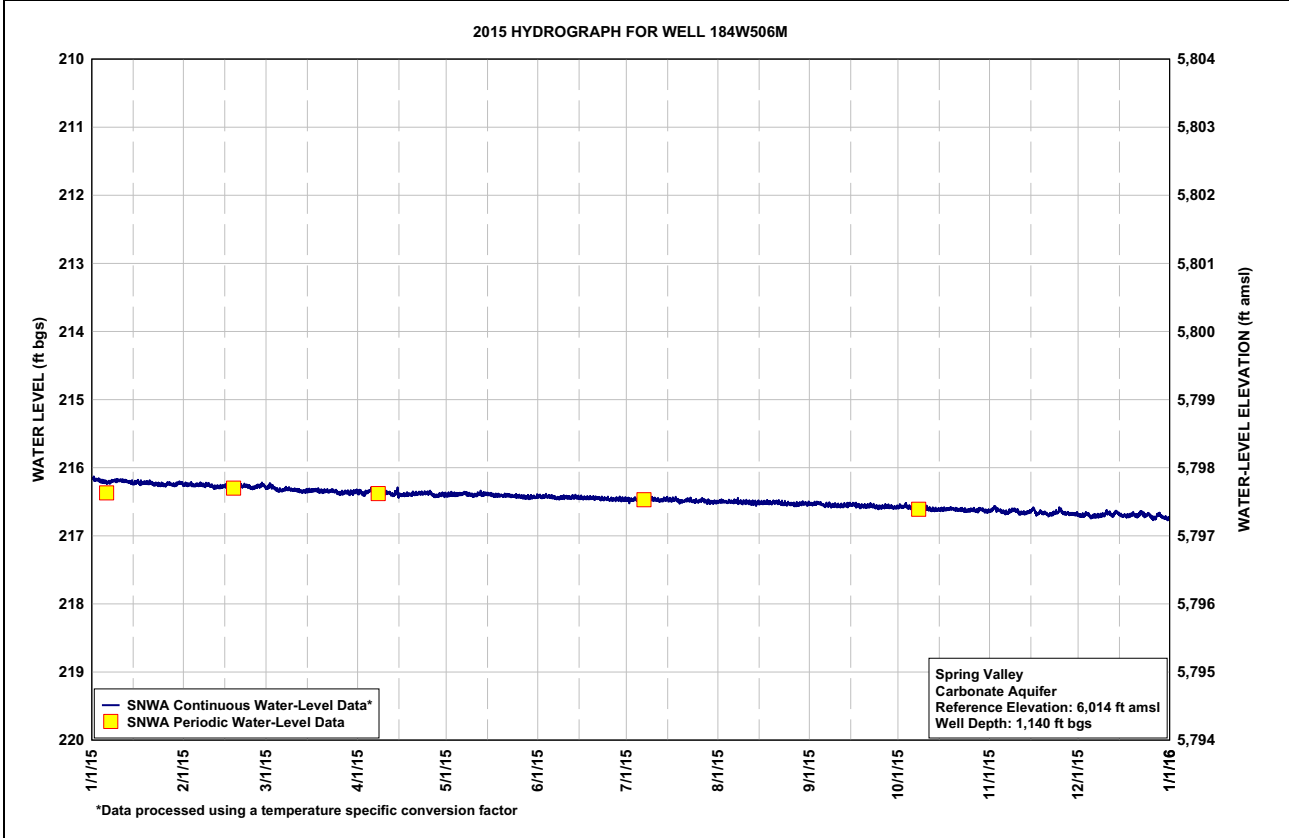




Table B-12
Spring Valley Well 184W508M, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	276.57	276.65	276.54	276.45	276.57	276.51	276.60	276.57	276.55	276.52	276.56	276.66
2	276.61	276.63	276.37	276.57	276.52	276.53	276.60	276.53	276.55	276.50	276.29	276.67
3	276.64	276.61	276.47	276.66	276.50	276.50	276.57	276.55	276.48	276.43	276.40	276.58
4	276.75	276.64	276.65	276.48	276.53	276.51	276.54	276.58	276.48	276.48	276.51	276.51
5	276.78	276.64	276.73	276.33	276.49	276.57	276.57	276.56	276.55	276.60	276.69	276.76
6	276.77	276.59	276.69	276.42	276.46	276.59	276.62	276.57	276.65	276.67	276.74	276.68
7	276.70	276.58	276.56	276.45	276.43	276.66	276.57	276.55	276.61	276.69	276.66	276.61
8	276.55	276.65	276.49	276.56	276.52	276.66	276.49	276.56	276.63	276.69	276.50	276.58
9	276.53	276.58	276.51	276.63	276.59	276.55	276.49	276.61	276.61	276.66	276.38	276.52
10	276.52	276.64	276.54	276.57	276.62	276.51	276.54	276.58	276.61	276.59	276.45	276.35
11	276.58	276.75	276.57	276.52	276.54	276.56	276.60	276.58	276.63	276.57	276.71	276.33
12	276.61	276.71	276.63	276.61	276.46	276.56	276.62	276.66	276.59	276.62	276.67	276.56
13	276.64	276.67	276.65	276.61	276.50	276.54	276.60	276.65	276.51	276.63	276.62	276.48
14	276.71	276.59	276.60	276.45	276.46	276.55	276.54	276.59	276.45	276.60	276.51	276.38
15	276.73	276.58	276.55	276.60	276.46	276.58	276.55	276.60	276.46	276.58	276.31	276.59
16	276.62	276.56	276.50	276.56	276.55	276.59	276.58	276.56	276.52	276.55	276.40	276.65
17	276.68	276.64	276.47	276.58	276.63	276.61	276.55	276.53	276.58	276.52	276.70	276.67
18	276.66	276.62	276.49	276.55	276.61	276.60	276.59	276.56	276.64	276.50	276.59	276.61
19	276.61	276.50	276.58	276.56	276.56	276.58	276.69	276.55	276.61	276.48	276.62	276.47
20	276.59	276.42	276.59	276.49	276.57	276.59	276.63	276.52	276.59	276.55	276.64	276.54
21	276.63	276.40	276.52	276.49	276.54	276.55	276.53	276.51	276.52	276.58	276.69	276.51
22	276.70	276.43	276.53	276.48	276.52	276.60	276.51	276.59	276.53	276.55	276.59	276.29
23	276.70	276.54	276.49	276.48	276.55	276.61	276.58	276.63	276.60	276.61	276.48	276.46
24	276.71	276.59	276.55	276.46	276.56	276.60	276.63	276.62	276.64	276.62	276.36	276.48
25	276.68	276.53	276.67	276.45	276.57	276.62	276.60	276.61	276.61	276.56	276.34	276.59
26	276.59	276.40	276.68	276.62	276.60	276.64	276.51	276.62	276.56	276.54	276.59	276.84
27	276.58	276.30	276.59	276.71	276.61	276.61	276.54	276.63	276.52	276.57	276.61	276.69
28	276.63	276.32	276.53	276.65	276.61	276.58	276.66	276.58	276.55	276.49	276.59	276.38
29	276.64	---	276.60	276.56	276.63	276.59	276.68	276.52	276.58	276.46	276.60	276.54
30	276.47	---	276.53	276.55	276.61	276.60	276.66	276.51	276.57	276.58	276.60	276.64
31	276.53	---	276.44	---	276.57	---	276.62	276.55	---	276.64	---	276.74
Max	276.78	276.75	276.73	276.71	276.63	276.66	276.69	276.66	276.65	276.69	276.74	276.84
Min	276.47	276.30	276.37	276.33	276.43	276.50	276.49	276.51	276.45	276.43	276.29	276.29

Year 2015 Statistics: Year Max 276.84; Year Min 276.29

Note: Water level in ft bgs

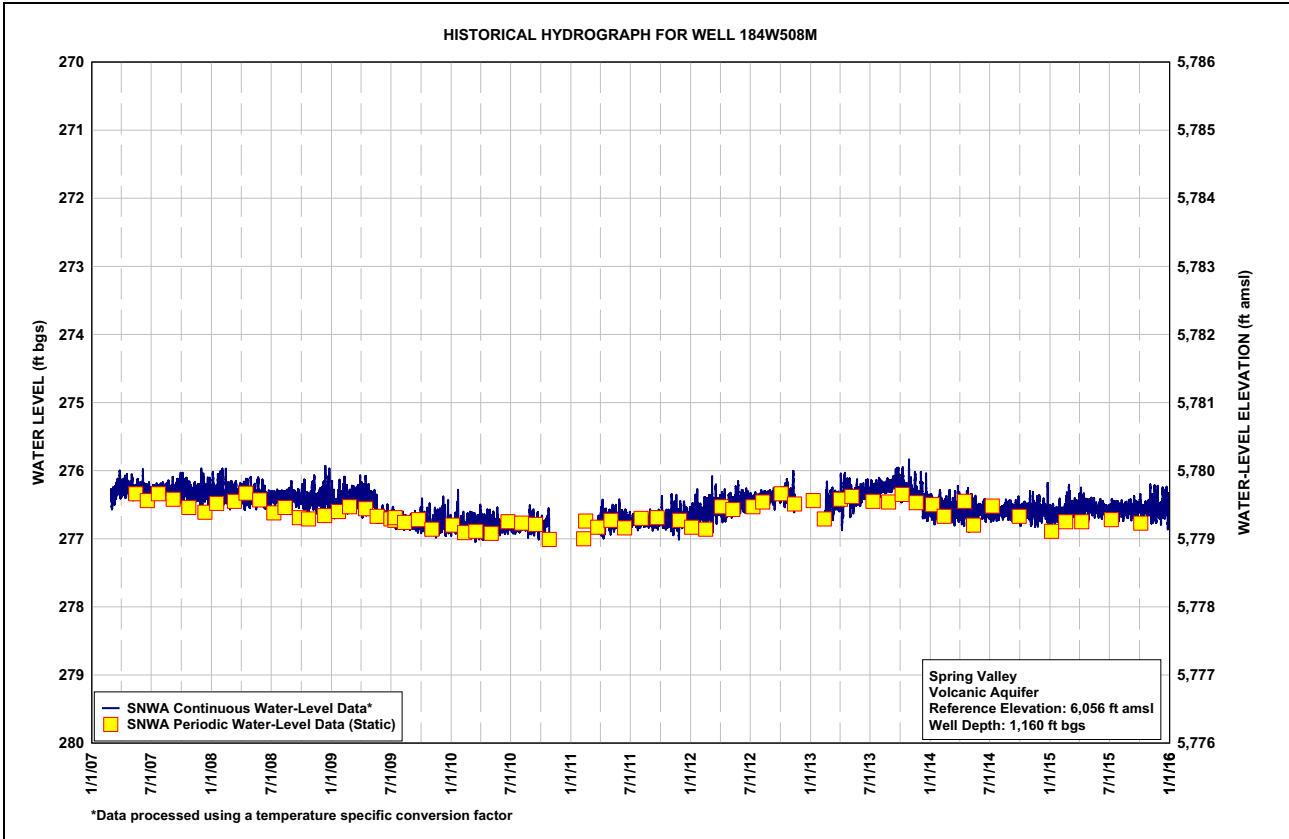
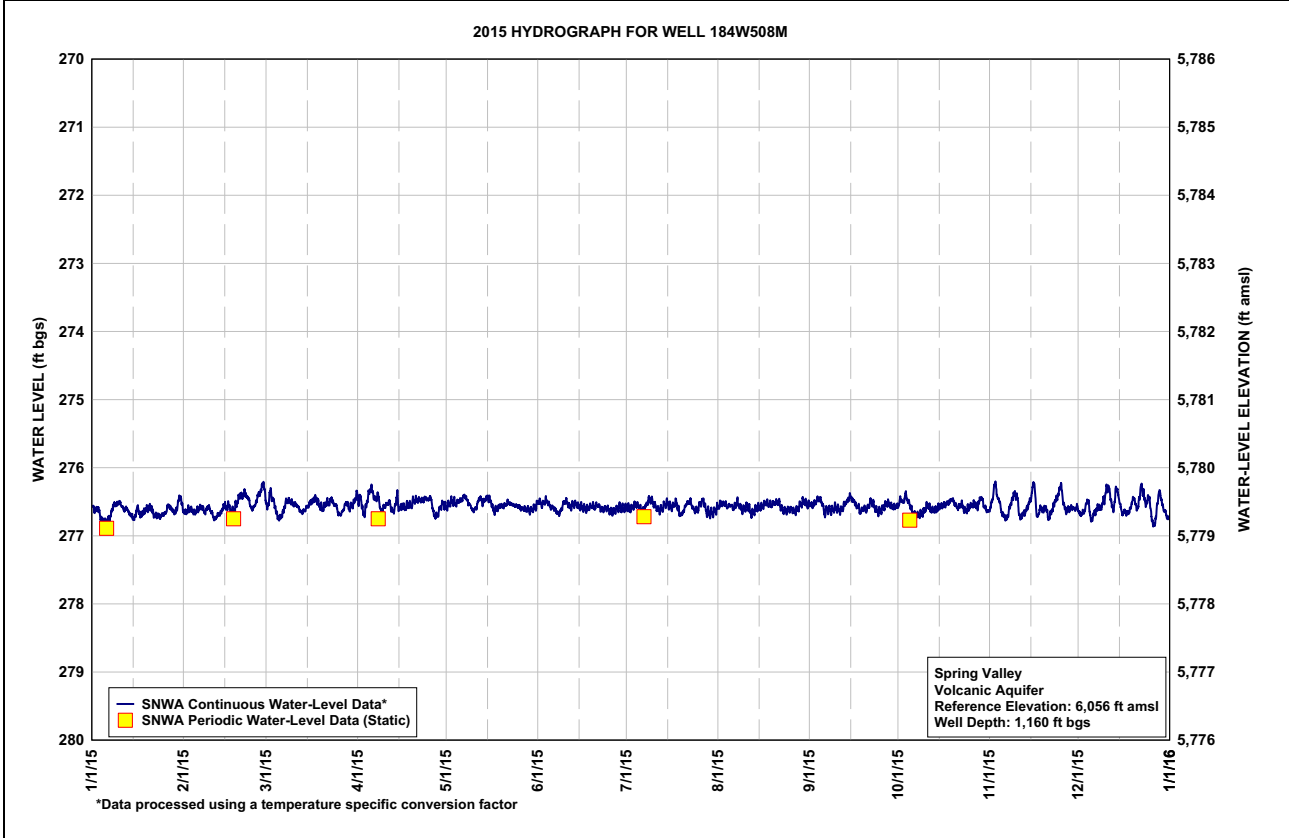




Table B-13
Spring Valley Well SPR7006M, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	773.09	773.13	773.04	772.95	773.01	773.11	773.31	773.35	773.55	773.71	773.90	774.11
2	773.10	773.12	772.93	773.01	772.99	773.13	773.30	773.34	773.54	773.74	773.78	774.09
3	773.13	773.12	773.01	773.01	773.01	773.10	773.30	773.36	773.51	773.71	773.89	774.03
4	773.18	773.13	773.08	772.91	773.01	773.12	773.30	773.36	773.53	773.75	773.92	774.03
5	773.17	773.11	773.11	772.88	772.99	773.15	773.32	773.37	773.59	773.80	773.99	774.13
6	773.15	773.09	773.08	772.94	772.98	773.16	773.35	773.38	773.59	773.83	774.01	774.07
7	773.14	773.10	773.03	772.92	772.98	773.20	773.28	773.37	773.59	773.83	773.97	774.07
8	773.10	773.12	773.01	772.98	773.02	773.20	773.27	773.39	773.61	773.83	773.90	774.08
9	773.09	773.10	773.02	772.98	773.04	773.16	773.28	773.41	773.61	773.83	773.86	774.03
10	773.09	773.13	773.03	772.95	773.07	773.14	773.31	773.40	773.62	773.80	773.93	773.95
11	773.12	773.17	773.03	772.94	773.03	773.17	773.33	773.41	773.62	773.83	774.02	773.98
12	773.11	773.15	773.06	773.00	773.01	773.18	773.34	773.44	773.61	773.85	774.00	774.10
13	773.15	773.13	773.07	772.98	773.05	773.17	773.32	773.44	773.58	773.85	773.98	774.00
14	773.17	773.09	773.04	772.92	773.01	773.19	773.31	773.43	773.54	773.84	773.94	774.02
15	773.17	773.08	773.01	772.98	773.03	773.21	773.33	773.44	773.57	773.84	773.82	774.12
16	773.12	773.06	772.99	772.97	773.06	773.22	773.33	773.44	773.61	773.85	773.96	774.13
17	773.18	773.09	772.98	772.97	773.10	773.24	773.32	773.44	773.65	773.83	774.03	774.16
18	773.15	773.10	772.99	772.98	773.08	773.23	773.37	773.46	773.68	773.83	774.00	774.13
19	773.14	773.06	773.03	772.97	773.07	773.23	773.38	773.46	773.66	773.83	774.02	774.07
20	773.13	773.05	773.01	772.95	773.09	773.24	773.34	773.46	773.68	773.87	774.05	774.12
21	773.15	773.01	772.98	772.94	773.07	773.23	773.33	773.46	773.66	773.88	774.04	774.06
22	773.17	773.04	772.99	772.94	773.08	773.26	773.32	773.50	773.67	773.87	774.00	773.98
23	773.19	773.07	772.97	772.93	773.09	773.25	773.37	773.51	773.72	773.91	773.95	774.11
24	773.18	773.09	773.00	772.92	773.10	773.26	773.37	773.51	773.73	773.90	773.90	774.07
25	773.18	773.04	773.05	772.92	773.11	773.27	773.34	773.52	773.72	773.88	773.93	774.18
26	773.13	773.00	773.04	773.03	773.13	773.29	773.32	773.52	773.69	773.88	774.03	774.26
27	773.12	772.94	773.01	773.05	773.14	773.28	773.36	773.52	773.69	773.90	774.01	774.13
28	773.14	772.97	773.00	773.03	773.15	773.28	773.39	773.52	773.72	773.86	774.02	774.04
29	773.13	---	773.01	772.98	773.16	773.29	773.38	773.49	773.74	773.88	774.04	774.14
30	773.06	---	772.99	773.00	773.14	773.29	773.37	773.51	773.73	773.93	774.05	774.19
31	773.09	---	772.93	---	773.13	---	773.37	773.54	---	773.95	---	774.23
Max	773.19	773.17	773.11	773.05	773.16	773.29	773.39	773.54	773.74	773.95	774.05	774.26
Min	773.06	772.94	772.93	772.88	772.98	773.10	773.27	773.34	773.51	773.71	773.78	773.95

Year 2015 Statistics: Year Max 774.26; Year Min 772.88

Note: Water level in ft bgs

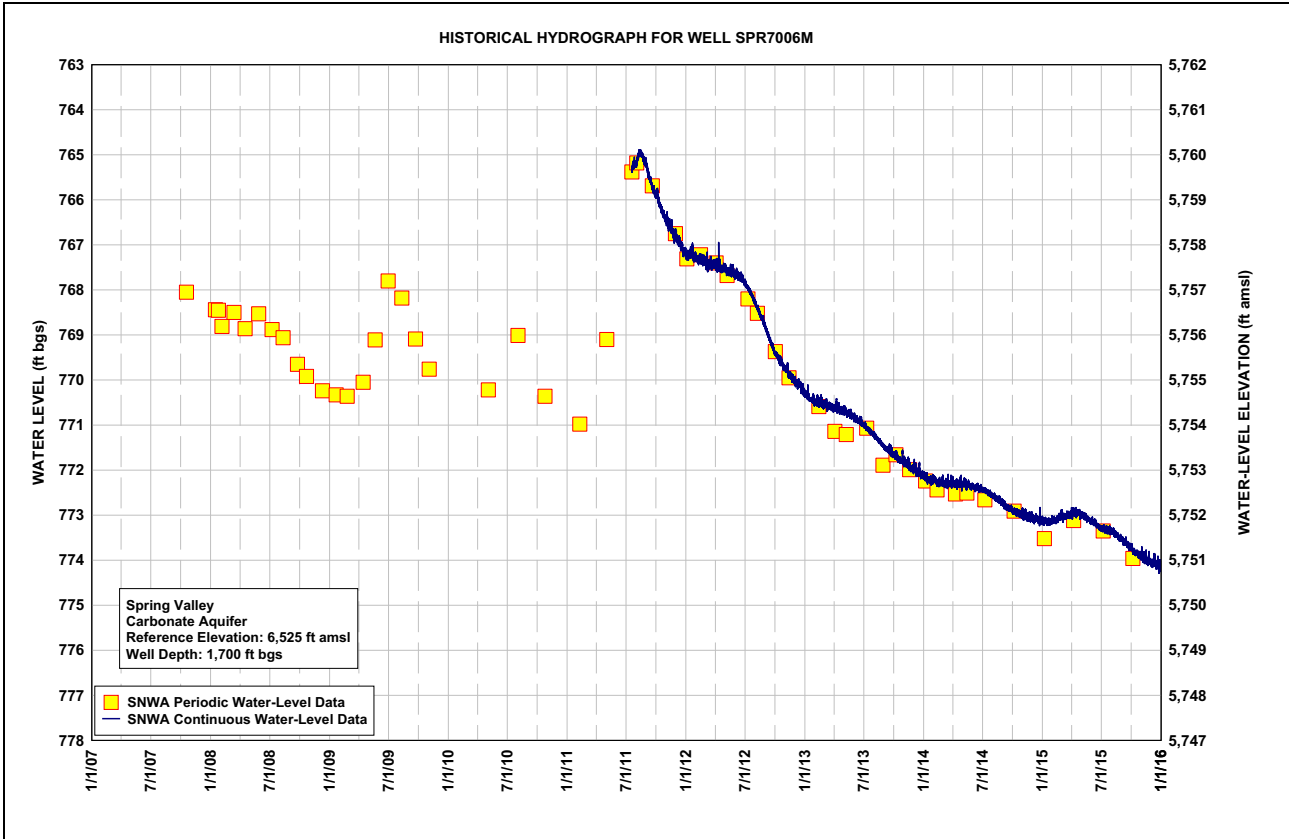
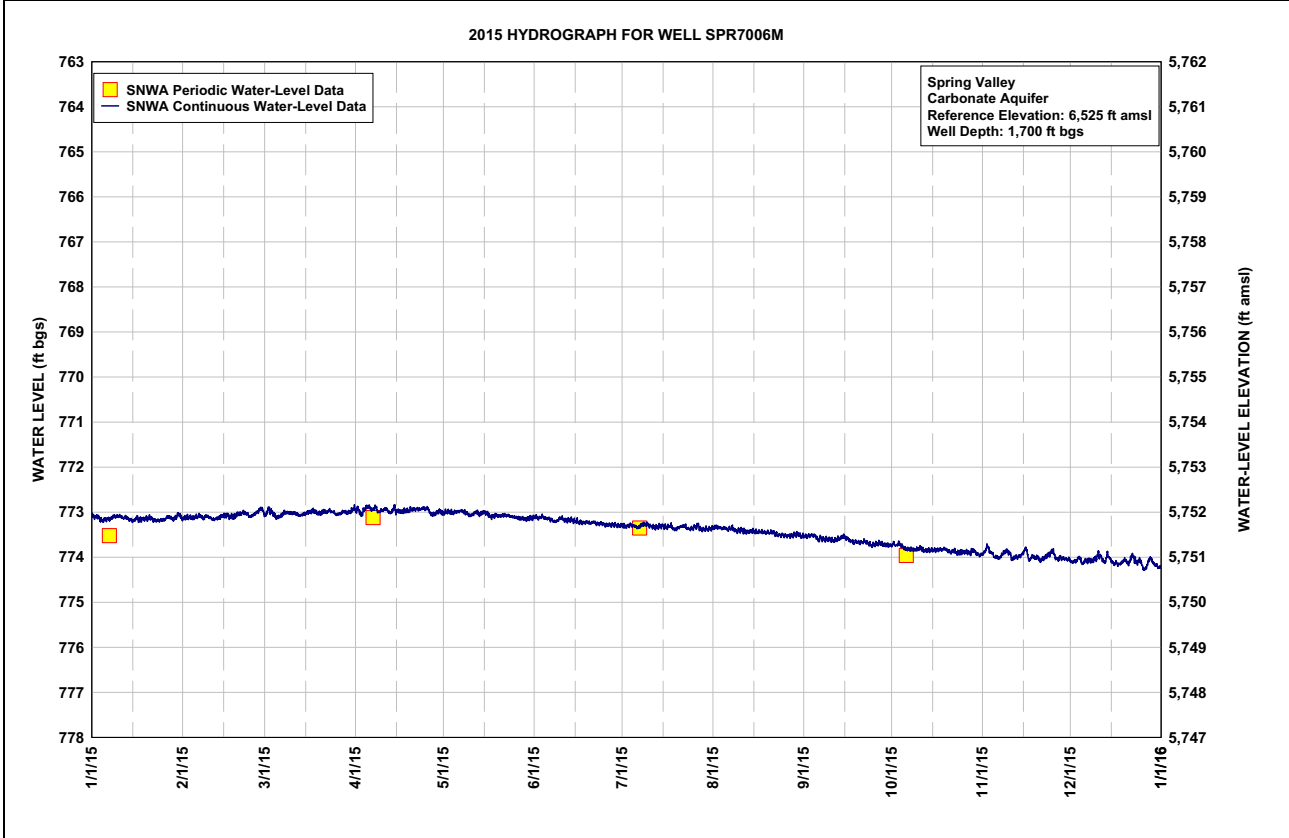


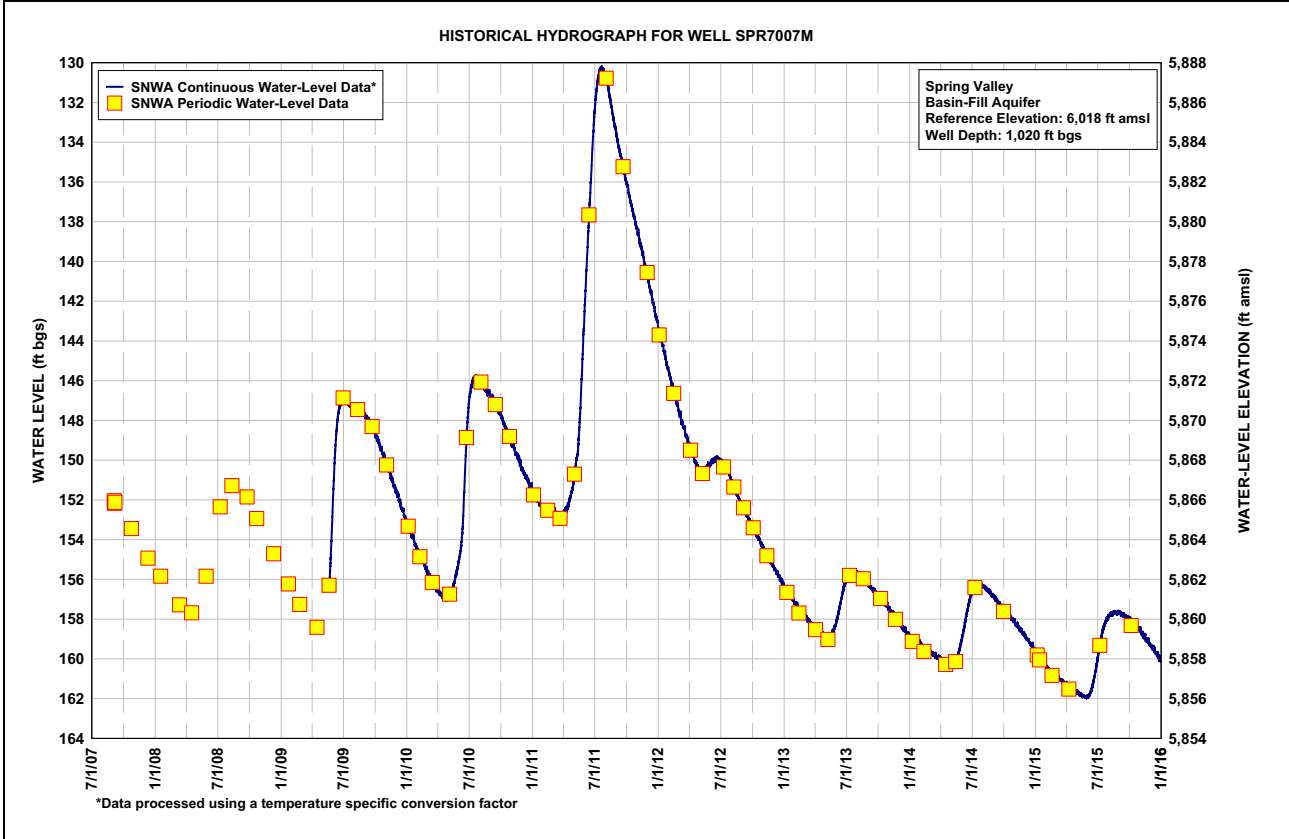
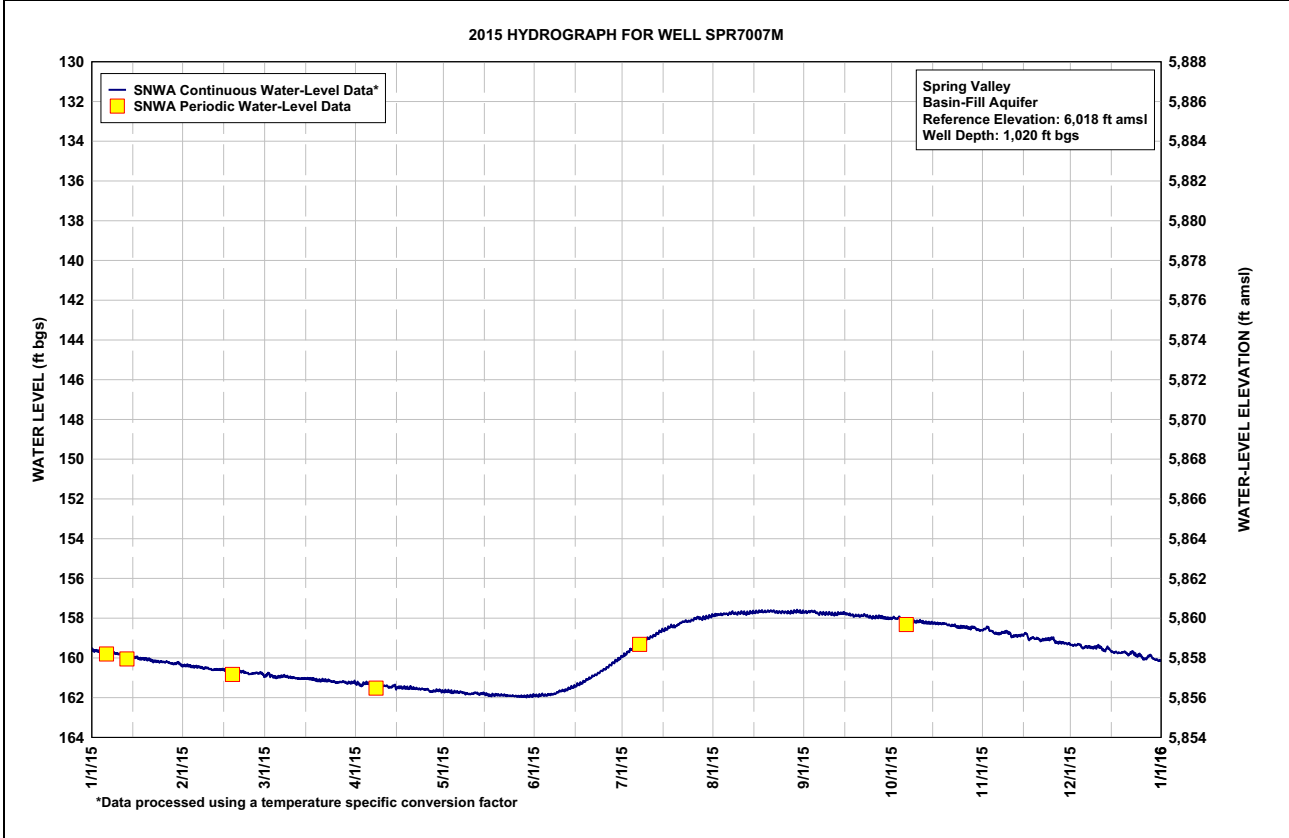


Table B-14
Spring Valley Well SPR7007M, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	159.61	160.38	160.89	161.29	161.69	161.89	159.90	157.86	157.69	157.99	158.57	159.35
2	159.63	160.38	160.80	161.35	161.68	161.90	159.80	157.82	157.69	158.02	158.46	159.37
3	159.67	160.40	160.90	161.34	161.70	161.88	159.67	157.82	157.66	157.97	158.63	159.33
4	159.73	160.44	160.96	161.28	161.73	161.88	159.57	157.81	157.68	158.06	158.66	159.36
5	159.74	160.44	160.96	161.28	161.72	161.87	159.48	157.78	157.73	158.12	158.76	159.49
6	159.76	160.45	160.94	161.36	161.72	161.84	159.40	157.76	157.77	158.15	158.78	159.44
7	159.74	160.48	160.91	161.36	161.73	161.84	159.25	157.75	157.75	158.16	158.75	159.45
8	159.74	160.52	160.93	161.44	161.78	161.78	159.11	157.76	157.78	158.18	158.71	159.47
9	159.78	160.51	160.97	161.43	161.81	161.69	159.04	157.78	157.78	158.18	158.69	159.46
10	159.81	160.56	160.99	161.41	161.80	161.66	158.99	157.74	157.79	158.17	158.77	159.41
11	159.87	160.60	161.02	161.41	161.78	161.64	158.93	157.73	157.81	158.18	158.91	159.48
12	159.87	160.58	161.04	161.47	161.77	161.57	158.86	157.76	157.79	158.22	158.88	159.62
13	159.93	160.59	161.05	161.45	161.82	161.51	158.75	157.74	157.76	158.24	158.88	159.53
14	159.98	160.58	161.04	161.40	161.80	161.46	158.65	157.71	157.74	158.24	158.85	159.59
15	159.99	160.61	161.05	161.49	161.83	161.40	158.59	157.70	157.78	158.24	158.78	159.70
16	159.97	160.62	161.05	161.48	161.86	161.34	158.55	157.69	157.81	158.26	158.94	159.71
17	160.04	160.67	161.06	161.51	161.88	161.26	158.45	157.67	157.84	158.26	159.02	159.75
18	160.04	160.68	161.09	161.51	161.86	161.17	158.42	157.69	157.90	158.27	158.98	159.74
19	160.05	160.66	161.13	161.53	161.86	161.08	158.40	157.68	157.88	158.28	159.04	159.71
20	160.07	160.68	161.13	161.53	161.88	161.00	158.30	157.66	157.89	158.35	159.08	159.81
21	160.13	160.69	161.12	161.55	161.87	160.90	158.21	157.66	157.86	158.38	159.12	159.78
22	160.16	160.75	161.15	161.56	161.89	160.82	158.17	157.70	157.88	158.37	159.08	159.71
23	160.18	160.80	161.17	161.57	161.90	160.72	158.17	157.71	157.94	158.44	159.05	159.87
24	160.19	160.79	161.20	161.59	161.91	160.62	158.14	157.70	157.97	158.44	159.03	159.85
25	160.21	160.78	161.24	161.59	161.92	160.54	158.07	157.69	157.96	158.44	159.11	159.97
26	160.20	160.76	161.23	161.68	161.94	160.43	158.00	157.70	157.94	158.45	159.22	160.04
27	160.25	160.76	161.21	161.68	161.93	160.33	157.99	157.71	157.94	158.49	159.21	159.95
28	160.28	160.84	161.23	161.66	161.93	160.22	158.03	157.68	157.98	158.47	159.24	159.88
29	160.30	---	161.26	161.64	161.94	160.12	157.99	157.66	158.00	158.49	159.26	160.05
30	160.24	---	161.25	161.66	161.92	160.01	157.95	157.66	158.00	158.58	159.28	160.08
31	160.35	---	161.23	---	161.90	---	157.91	157.70	---	158.61	---	160.14
Max	160.35	160.84	161.26	161.68	161.94	161.90	159.90	157.86	158.00	158.61	159.28	160.14
Min	159.61	160.38	160.80	161.28	161.68	160.01	157.91	157.66	157.66	157.97	158.46	159.33

Year 2015 Statistics: Year Max 161.94; Year Min 157.66

Note: Water level in ft bgs





**Table B-15
Spring Valley Well SPR7005M, Calendar Year 2015
Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	494.88	495.27	495.64	495.88	496.22	496.45	496.40	496.49	496.63	--- ^a	--- ^a	--- ^a
2	494.91	495.26	495.50	495.97	496.20	496.49	496.40	496.47	496.62	--- ^a	--- ^a	--- ^a
3	494.94	495.27	495.62	496.00	496.21	496.47	496.38	496.49	496.58	--- ^a	--- ^a	--- ^a
4	495.03	495.29	495.73	495.85	496.23	496.49	496.38	496.50	496.59	--- ^a	--- ^a	--- ^a
5	495.05	495.29	495.77	495.81	496.22	496.52	496.41	496.50	496.66	--- ^a	--- ^a	--- ^a
6	495.05	495.27	495.74	495.91	496.21	496.54	496.45	496.52	496.69	--- ^a	--- ^a	--- ^a
7	494.99	495.29	495.66	495.91	496.21	496.58	496.40	496.50	496.69	--- ^a	--- ^a	--- ^a
8	494.93	495.34	495.65	496.01	496.28	496.58	496.37	496.53	496.70	--- ^a	--- ^a	--- ^a
9	494.94	495.30	495.67	496.03	496.33	496.51	496.37	496.56	496.70	--- ^a	--- ^a	--- ^a
10	494.95	495.37	495.70	496.01	496.35	496.49	496.41	496.54	496.70	--- ^a	--- ^a	--- ^a
11	495.00	495.42	495.73	495.99	496.29	496.54	496.45	496.56	496.72	--- ^a	--- ^a	--- ^a
12	495.02	495.41	495.79	496.07	496.25	496.54	496.46	496.59	496.69	--- ^a	--- ^a	--- ^a
13	495.07	495.39	495.80	496.05	496.31	496.52	496.44	496.58	496.65	--- ^a	--- ^a	--- ^a
14	495.10	495.35	495.77	495.98	496.29	496.54	496.41	496.56	496.62	--- ^a	--- ^a	--- ^a
15	495.11	495.36	495.75	496.08	496.31	496.55	496.43	496.57	496.64	--- ^a	--- ^a	--- ^a
16	495.06	495.36	495.73	496.07	496.39	496.56	496.45	496.56	496.71	--- ^a	--- ^a	--- ^a
17	495.13	495.43	495.72	496.10	496.42	496.54	496.42	496.54	496.73	--- ^a	--- ^a	--- ^a
18	495.12	495.46	495.76	496.08	496.40	496.42	496.48	496.56	496.76	--- ^a	--- ^a	--- ^a
19	495.10	495.49	495.82	496.08	496.39	496.34	496.52	496.55	496.75	--- ^a	--- ^a	--- ^a
20	495.10	495.46	495.82	496.07	496.40	496.35	496.47	496.54	496.75	--- ^a	--- ^a	--- ^a
21	495.14	495.46	495.79	496.07	496.39	496.33	496.42	496.56	496.72	--- ^a	--- ^a	--- ^a
22	495.19	495.49	495.80	496.09	496.40	496.37	496.42	496.62	496.73	--- ^a	--- ^a	--- ^a
23	495.20	495.57	495.81	496.10	496.42	496.36	496.47	496.65	496.79	--- ^a	--- ^a	--- ^a
24	495.21	495.61	495.85	496.10	496.45	496.37	496.50	496.63	496.82	--- ^a	--- ^a	--- ^a
25	495.21	495.56	495.93	496.11	496.45	496.39	496.48	496.63	496.79	--- ^a	--- ^a	--- ^a
26	495.15	495.50	495.93	496.24	496.48	496.40	496.43	496.65	496.76	--- ^a	--- ^a	--- ^a
27	495.17	495.44	495.87	496.28	496.50	496.38	496.49	496.65	496.75	--- ^a	--- ^a	--- ^a
28	495.22	495.49	495.86	496.22	496.49	496.37	496.55	496.63	496.78	--- ^a	--- ^a	--- ^a
29	495.22	---	495.91	496.19	496.52	496.38	496.54	496.58	496.80	--- ^a	--- ^a	--- ^a
30	495.13	---	495.89	496.22	496.50	496.40	496.53	496.58	496.80	--- ^a	--- ^a	--- ^a
31	495.20	---	495.84	---	496.48	---	496.52	496.63	---	--- ^a	--- ^a	--- ^a
Max	495.22	495.61	495.93	496.28	496.52	496.58	496.55	496.65	496.82	--- ^a	--- ^a	--- ^a
Min	494.88	495.26	495.50	495.81	496.20	496.33	496.37	496.47	496.58	--- ^a	--- ^a	--- ^a

Year 2015 Statistics: Year Max --- ; Year Min ---

Note: Water level in ft bgs

^aSite inaccessible. Data currently unavailable.

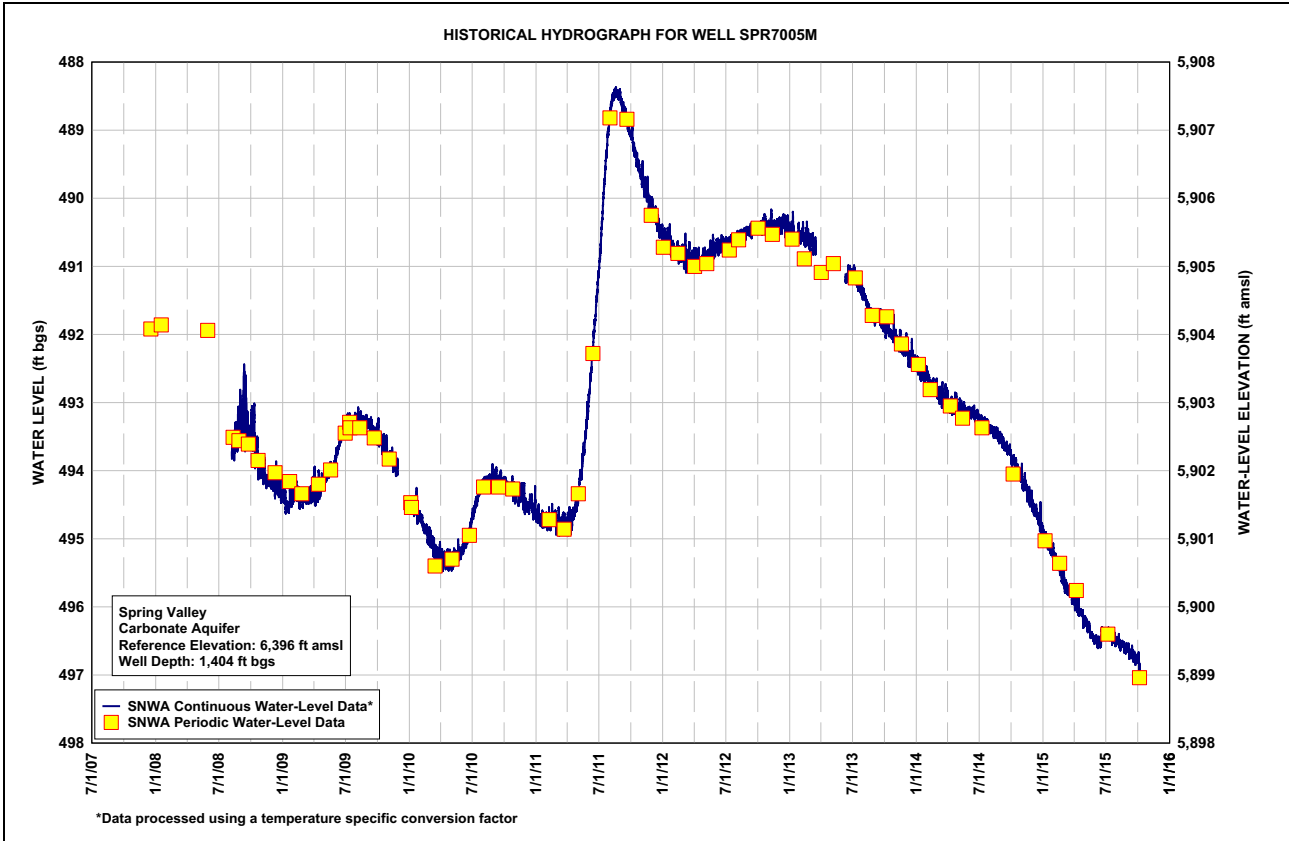
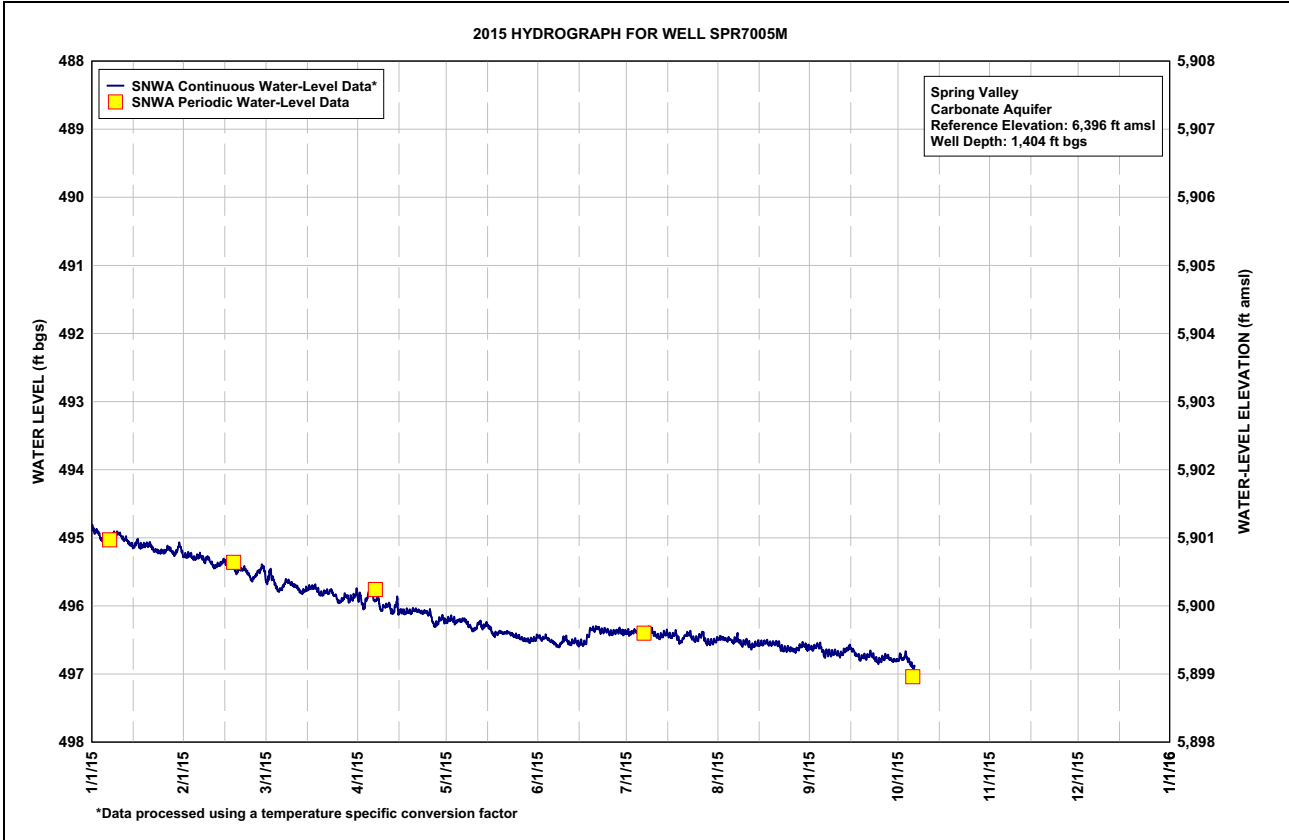




Table B-16
Spring Valley Well SPR7008M, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.32	14.40	14.44	14.42	14.45	14.40	14.47	14.52	14.58	14.62	14.68	14.85
2	14.33	14.37	14.32	14.47	14.43	14.42	14.46	14.50	14.58	14.65	14.58	14.83
3	14.35	14.37	14.42	14.47	14.44	14.41	14.45	14.53	14.56	14.61	14.72	14.75
4	14.39	14.40	14.49	14.37	14.45	14.42	14.45	14.52	14.58	14.67	14.75	14.76
5	14.39	14.37	14.50	14.33	14.42	14.44	14.47	14.53	14.63	14.72	14.81	14.87
6	14.38	14.35	14.46	14.40	14.41	14.44	14.50	14.52	14.63	14.72	14.81	14.79
7	14.35	14.37	14.40	14.40	14.41	14.47	14.47	14.55	14.64	14.73	14.76	14.78
8	14.29	14.40	14.40	14.48	14.45	14.47	14.45	14.56	14.64	14.73	14.69	14.77
9	14.30	14.37	14.42	14.48	14.47	14.39	14.46	14.57	14.64	14.71	14.67	14.73
10	14.31	14.43	14.42	14.44	14.48	14.41	14.48	14.55	14.64	14.67	14.74	14.65
11	14.35	14.45	14.43	14.42	14.42	14.44	14.50	14.57	14.65	14.68	14.83	14.71
12	14.35	14.43	14.46	14.49	14.41	14.42	14.52	14.59	14.62	14.70	14.79	14.82
13	14.37	14.41	14.46	14.44	14.44	14.42	14.48	14.57	14.59	14.71	14.76	14.70
14	14.39	14.37	14.42	14.37	14.41	14.43	14.47	14.56	14.56	14.69	14.70	14.76
15	14.40	14.38	14.41	14.48	14.43	14.44	14.48	14.57	14.60	14.68	14.61	14.85
16	14.32	14.38	14.38	14.46	14.47	14.45	14.50	14.56	14.63	14.67	14.76	14.83
17	14.39	14.41	14.38	14.45	14.49	14.46	14.48	14.54	14.64	14.66	14.80	14.83
18	14.35	14.41	14.41	14.44	14.47	14.45	14.53	14.57	14.67	14.65	14.75	14.81
19	14.34	14.37	14.45	14.44	14.46	14.44	14.56	14.56	14.65	14.68	14.78	14.76
20	14.35	14.36	14.43	14.42	14.46	14.46	14.51	14.55	14.63	14.72	14.82	14.81
21	14.39	14.36	14.40	14.42	14.45	14.44	14.47	14.55	14.60	14.72	14.83	14.77
22	14.40	14.40	14.41	14.42	14.45	14.47	14.48	14.60	14.63	14.71	14.77	14.68
23	14.41	14.43	14.41	14.42	14.45	14.44	14.52	14.60	14.67	14.75	14.71	14.80
24	14.39	14.44	14.44	14.41	14.46	14.45	14.54	14.59	14.68	14.72	14.66	14.76
25	14.39	14.40	14.49	14.43	14.46	14.47	14.50	14.60	14.66	14.71	14.71	14.86
26	14.34	14.35	14.47	14.53	14.47	14.46	14.47	14.60	14.64	14.70	14.81	14.94
27	14.36	14.32	14.42	14.52	14.47	14.46	14.53	14.61	14.63	14.72	14.78	14.81
28	14.39	14.36	14.41	14.47	14.47	14.45	14.58	14.58	14.66	14.67	14.78	14.71
29	14.38	---	14.45	14.43	14.47	14.47	14.56	14.55	14.66	14.70	14.80	14.84
30	14.30	---	14.42	14.45	14.45	14.47	14.55	14.57	14.64	14.74	14.80	14.87
31	14.36	---	14.36	---	14.42	---	14.53	14.60	---	14.74	---	14.89
Max	14.41	14.45	14.50	14.53	14.49	14.47	14.58	14.61	14.68	14.75	14.83	14.94
Min	14.29	14.32	14.32	14.33	14.41	14.39	14.45	14.50	14.56	14.61	14.58	14.65

Year 2015 Statistics: Year Max 14.94; Year Min 14.29

Note: Water level in ft bgs

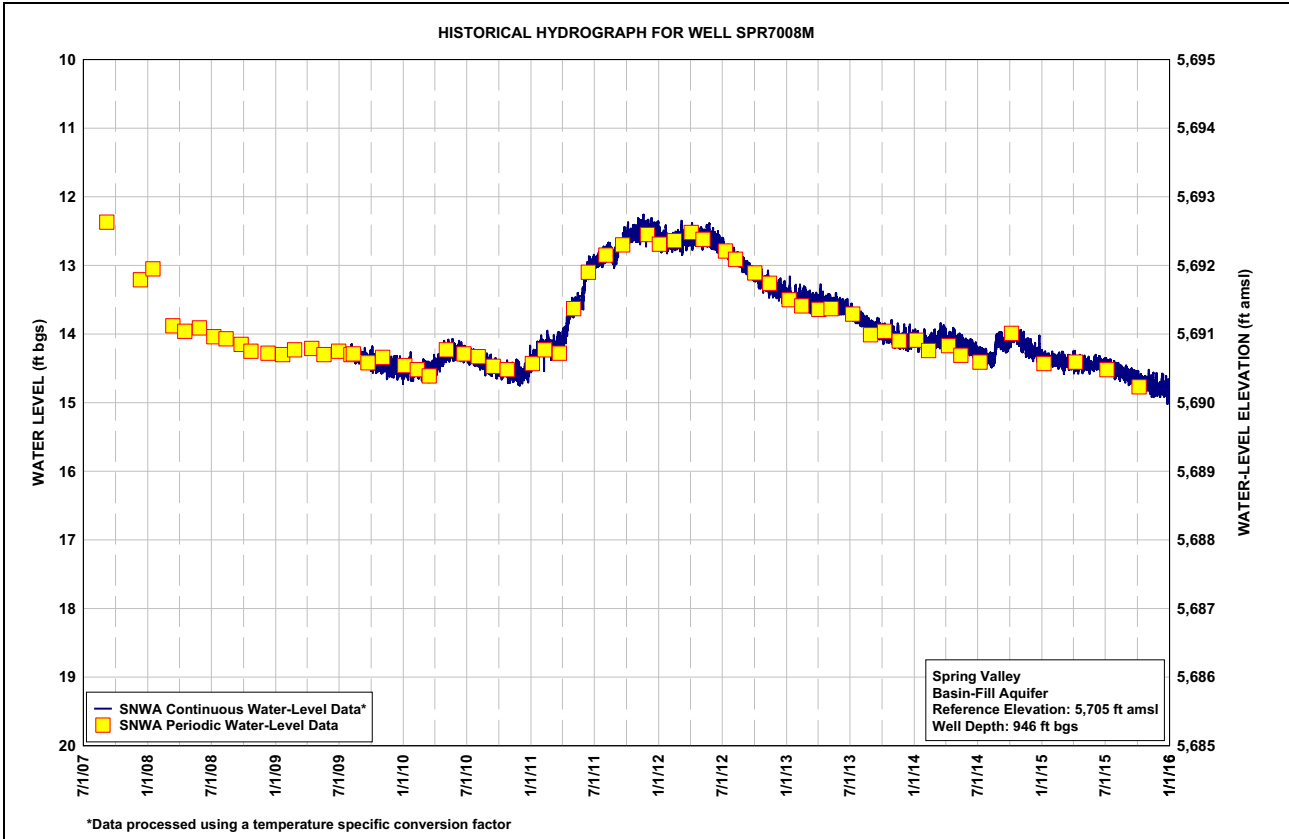
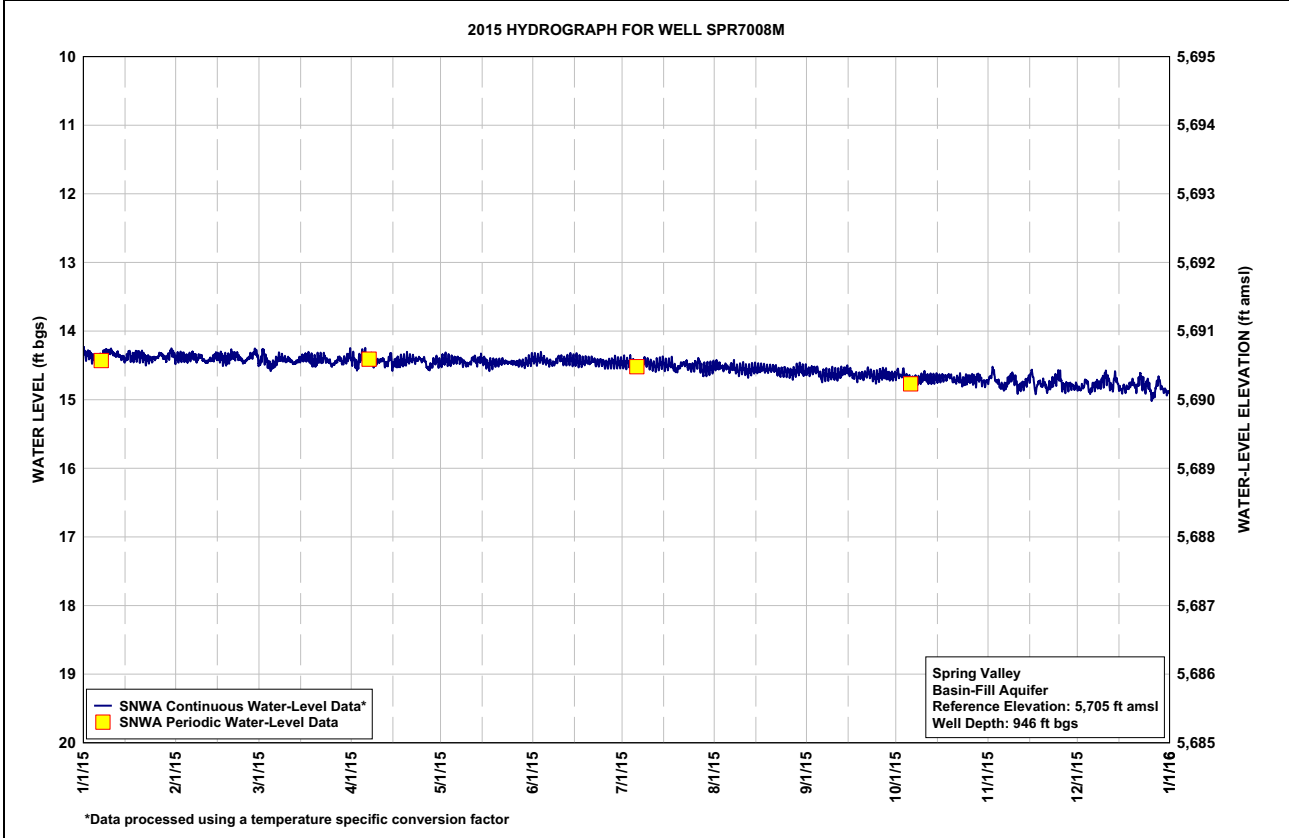




Table B-17
Spring Valley Well SPR7024M, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25.64	25.58	25.47	25.53	25.99	26.36	26.78	27.29	27.80	28.29	28.70	28.78
2	25.65	25.56	25.42	25.58	26.00	26.38	26.79	27.30	27.80	28.31	28.65	28.77
3	25.65	25.55	25.45	25.60	26.02	26.39	26.80	27.32	27.79	28.32	28.70	28.74
4	25.67	25.56	25.48	25.57	26.04	26.41	26.81	27.34	27.80	28.35	28.71	28.74
5	25.67	25.55	25.50	25.57	26.05	26.44	26.83	27.36	27.83	28.39	28.74	28.79
6	25.66	25.54	25.48	25.61	26.06	26.46	26.86	27.37	27.86	28.42	28.74	28.77
7	25.64	25.54	25.45	25.63	26.08	26.49	26.87	27.39	27.86	28.43	28.73	28.75
8	25.61	25.55	25.44	25.68	26.10	26.51	26.88	27.41	27.87	28.45	28.70	28.75
9	25.61	25.53	25.45	25.69	26.12	26.50	26.91	27.43	27.88	28.46	28.69	28.73
10	25.61	25.54	25.45	25.69	26.14	26.51	26.94	27.43	27.89	28.47	28.71	28.70
11	25.62	25.56	25.44	25.69	26.14	26.54	26.97	27.46	27.91	28.48	28.76	28.71
12	25.62	25.55	25.45	25.73	26.14	26.56	26.99	27.48	27.92	28.52	28.74	28.76
13	25.62	25.54	25.45	25.74	26.18	26.57	27.00	27.49	27.94	28.53	28.74	28.72
14	25.63	25.51	25.44	25.72	26.18	26.59	27.01	27.49	27.96	28.54	28.71	28.72
15	25.63	25.51	25.42	25.75	26.20	26.59	27.03	27.51	27.99	28.56	28.68	28.77
16	25.60	25.51	25.41	25.75	26.24	26.61	27.05	27.53	28.02	28.58	28.72	28.77
17	25.62	25.52	25.40	25.77	26.25	26.63	27.06	27.54	28.05	28.58	28.76	28.77
18	25.61	25.52	25.41	25.78	26.25	26.65	27.10	27.56	28.09	28.57	28.74	28.76
19	25.60	25.50	25.43	25.80	26.26	26.67	27.12	27.58	28.10	28.59	28.75	28.73
20	25.59	25.49	25.43	25.79	26.27	26.68	27.12	27.59	28.12	28.63	28.75	28.75
21	25.60	25.48	25.41	25.81	26.27	26.69	27.12	27.61	28.13	28.65	28.77	28.74
22	25.61	25.48	25.42	25.83	26.29	26.71	27.13	27.64	28.15	28.66	28.74	28.68
23	25.61	25.51	25.41	25.84	26.30	26.70	27.17	27.66	28.18	28.69	28.72	28.73
24	25.61	25.51	25.42	25.86	26.32	26.71	27.19	27.68	28.21	28.70	28.70	28.72
25	25.59	25.49	25.45	25.86	26.33	26.72	27.19	27.69	28.21	28.69	28.71	28.75
26	25.58	25.46	25.45	25.92	26.34	26.73	27.19	27.71	28.22	28.68	28.76	28.78
27	25.57	25.44	25.44	25.95	26.33	26.73	27.22	27.73	28.23	28.71	28.75	28.75
28	25.58	25.44	25.45	25.95	26.33	26.74	27.25	27.73	28.25	28.70	28.75	28.70
29	25.58	---	25.49	25.95	26.35	26.76	27.27	27.74	28.27	28.69	28.75	28.74
30	25.53	---	25.50	25.97	26.36	26.77	27.27	27.76	28.28	28.72	28.76	28.76
31	25.55	---	25.50	---	26.36	---	27.28	27.79	---	28.72	---	28.77
Max	25.67	25.58	25.50	25.97	26.36	26.77	27.28	27.79	28.28	28.72	28.77	28.79
Min	25.53	25.44	25.40	25.53	25.99	26.36	26.78	27.29	27.79	28.29	28.65	28.68

Year 2015 Statistics: Year Max 28.79; Year Min 25.40

Note: Water level in ft bgs

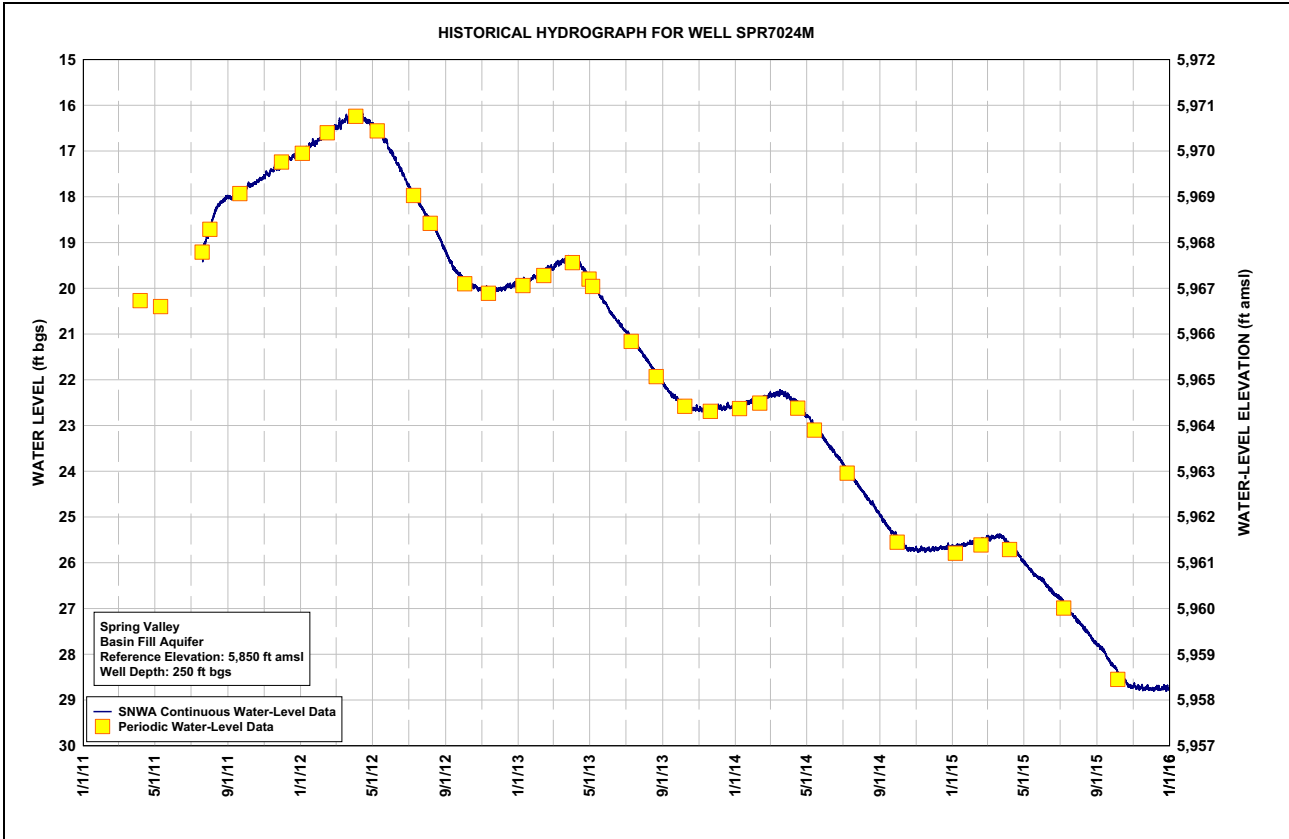
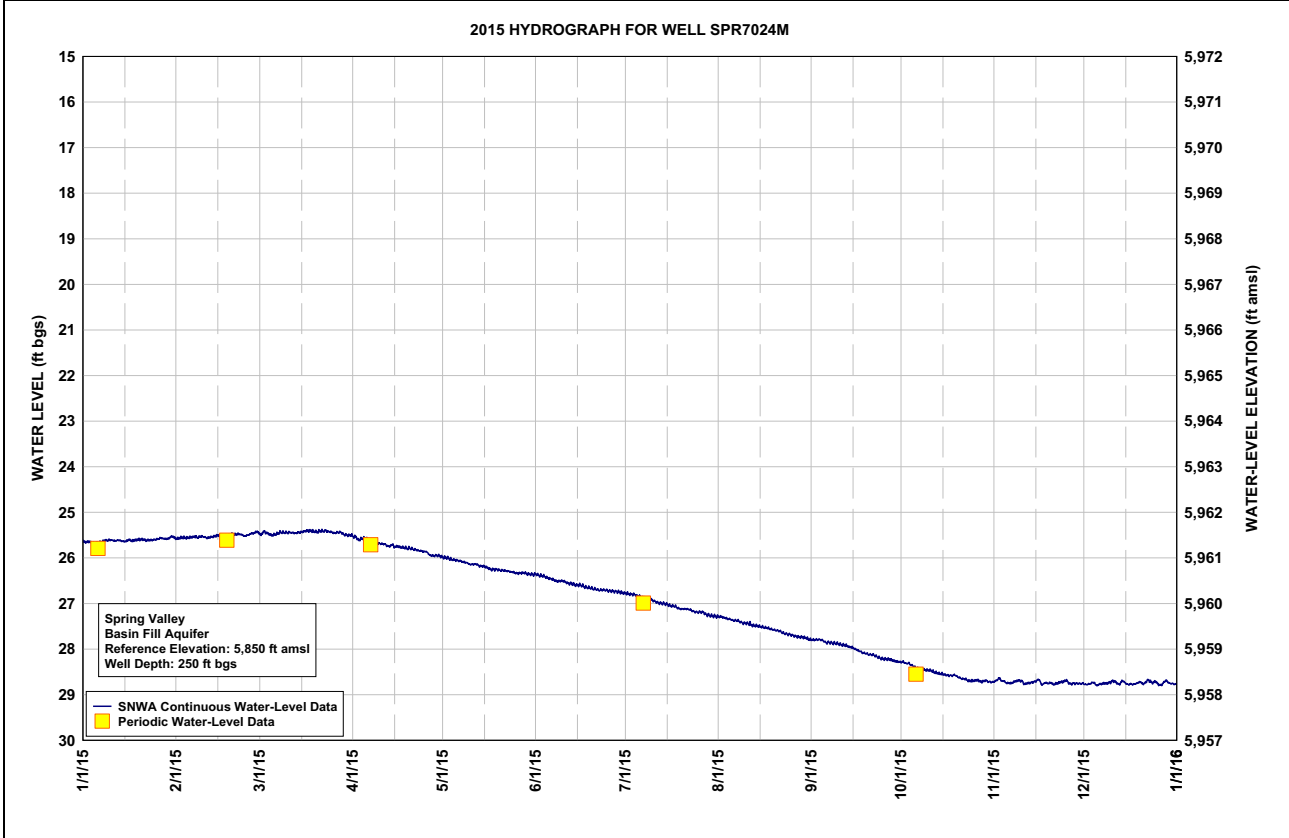


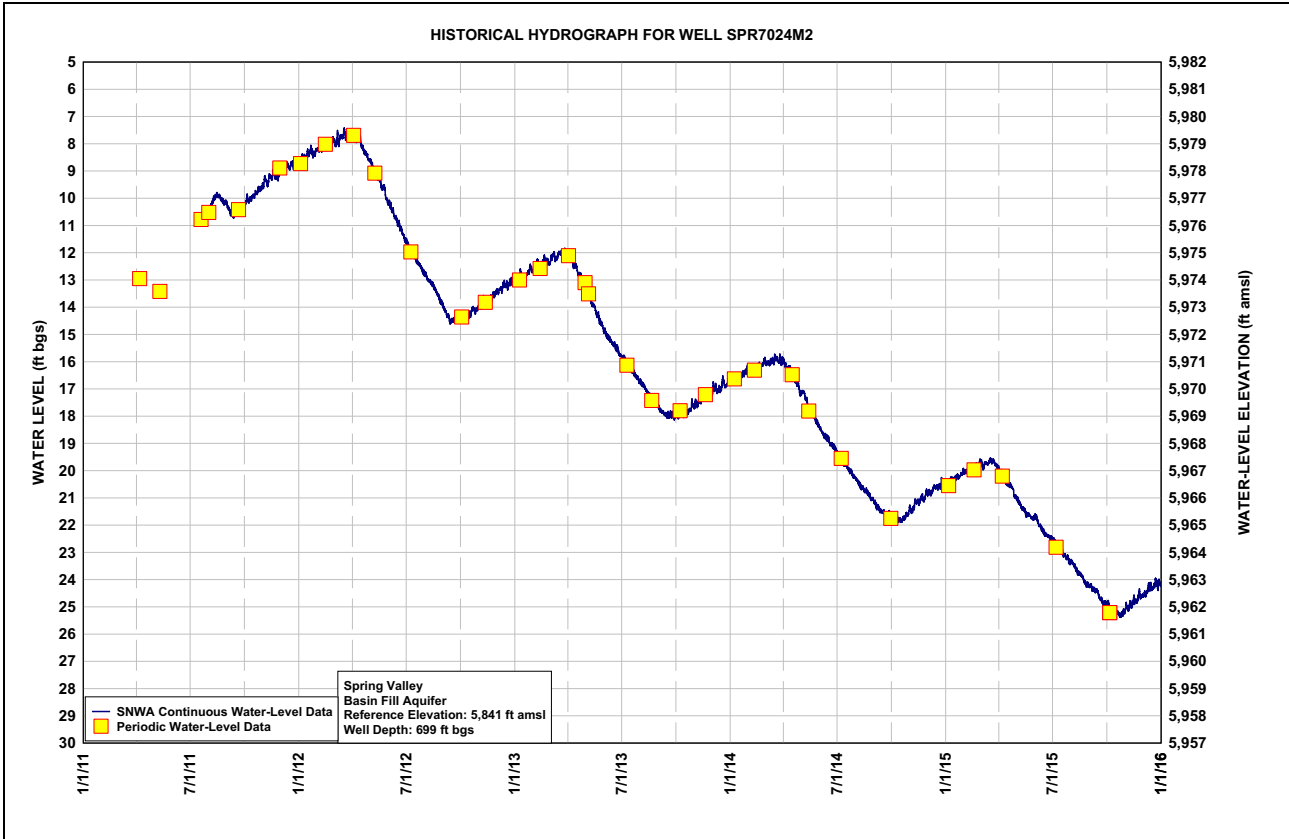
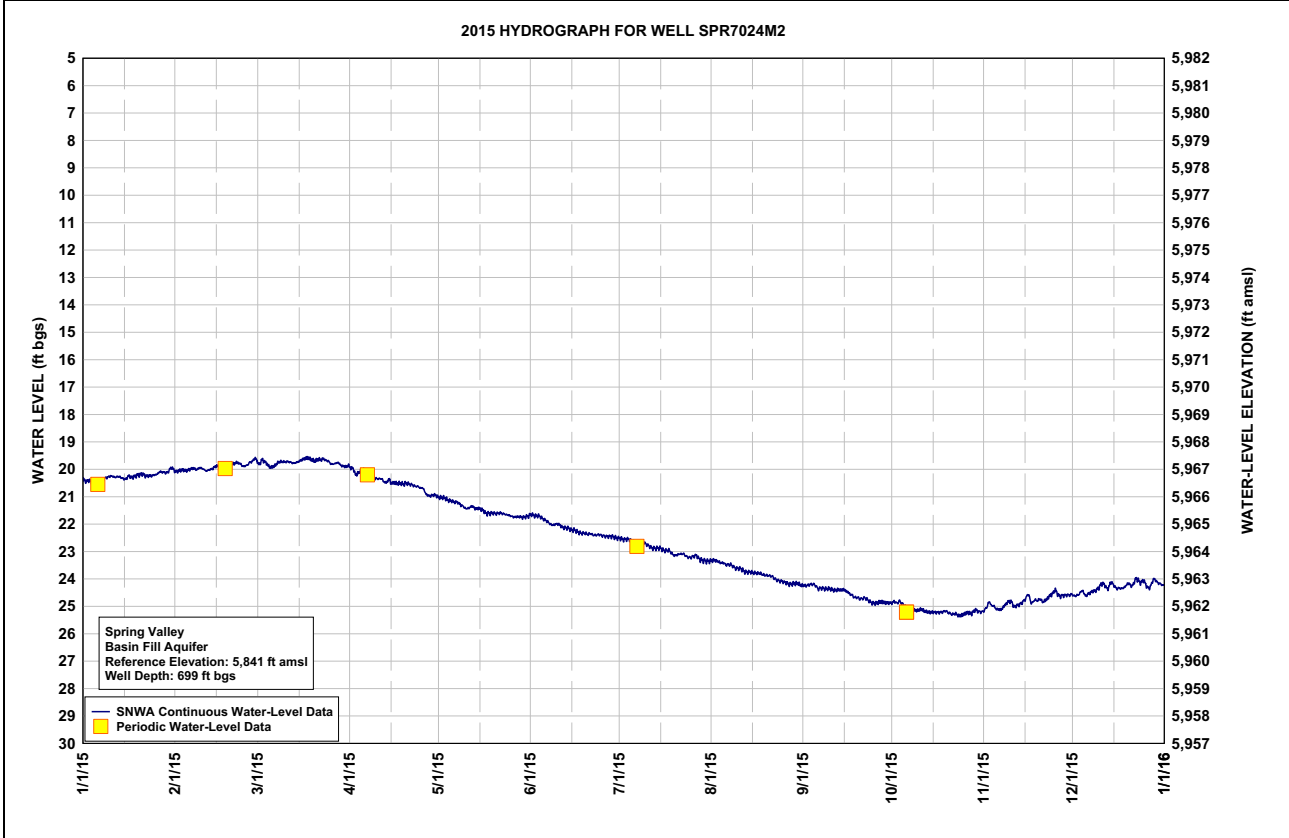


Table B-18
Spring Valley Well SPR7024M2, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.39	20.07	19.79	19.94	21.02	21.66	22.52	23.33	24.24	24.84	25.09	24.62
2	20.42	20.05	19.66	20.07	21.03	21.68	22.54	23.33	24.23	24.86	24.89	24.60
3	20.42	20.02	19.73	20.17	21.06	21.69	22.55	23.36	24.19	24.82	24.93	24.50
4	20.49	20.04	19.84	20.09	21.13	21.73	22.55	23.42	24.20	24.89	24.99	24.45
5	20.50	20.02	19.92	20.02	21.15	21.81	22.60	23.44	24.27	24.99	25.10	24.61
6	20.49	19.98	19.88	20.11	21.18	21.88	22.67	23.47	24.35	25.07	25.11	24.54
7	20.43	19.97	19.79	20.16	21.21	21.97	22.68	23.49	24.33	25.11	25.06	24.47
8	20.31	20.00	19.73	20.30	21.29	22.04	22.65	23.54	24.35	25.13	24.93	24.43
9	20.27	19.95	19.72	20.36	21.38	21.99	22.70	23.60	24.35	25.15	24.82	24.36
10	20.25	19.99	19.73	20.35	21.43	22.02	22.76	23.61	24.36	25.12	24.83	24.22
11	20.28	20.05	19.73	20.35	21.39	22.09	22.83	23.65	24.40	25.13	25.00	24.17
12	20.28	20.03	19.76	20.45	21.36	22.12	22.87	23.73	24.41	25.19	24.95	24.32
13	20.27	19.99	19.77	20.46	21.43	22.13	22.87	23.75	24.40	25.21	24.90	24.24
14	20.33	19.92	19.73	20.38	21.43	22.18	22.86	23.75	24.39	25.21	24.79	24.17
15	20.35	19.88	19.67	20.50	21.45	22.21	22.91	23.78	24.43	25.21	24.63	24.30
16	20.24	19.86	19.63	20.49	21.54	22.24	22.96	23.79	24.51	25.21	24.63	24.32
17	20.28	19.91	19.59	20.52	21.60	22.29	22.96	23.80	24.58	25.20	24.84	24.35
18	20.25	19.91	19.61	20.52	21.60	22.33	23.03	23.84	24.67	25.18	24.78	24.30
19	20.20	19.85	19.66	20.54	21.59	22.33	23.12	23.87	24.69	25.20	24.77	24.20
20	20.18	19.80	19.68	20.52	21.61	22.37	23.13	23.88	24.72	25.25	24.77	24.20
21	20.19	19.77	19.64	20.54	21.60	22.36	23.10	23.90	24.69	25.29	24.82	24.19
22	20.24	19.78	19.65	20.58	21.60	22.41	23.09	23.99	24.73	25.28	24.72	23.99
23	20.23	19.84	19.64	20.62	21.64	22.39	23.16	24.05	24.81	25.33	24.61	24.08
24	20.22	19.89	19.69	20.66	21.68	22.38	23.20	24.07	24.88	25.33	24.50	24.09
25	20.20	19.84	19.79	20.68	21.71	22.41	23.20	24.11	24.89	25.28	24.44	24.14
26	20.12	19.74	19.81	20.84	21.74	22.43	23.16	24.15	24.86	25.24	24.60	24.31
27	20.09	19.67	19.77	20.95	21.73	22.43	23.20	24.18	24.84	25.25	24.59	24.23
28	20.11	19.64	19.78	20.96	21.73	22.44	23.29	24.18	24.86	25.19	24.58	23.99
29	20.11	---	19.87	20.94	21.74	22.47	23.32	24.16	24.87	25.13	24.57	24.10
30	19.98	---	19.90	20.97	21.73	22.51	23.34	24.17	24.87	25.18	24.56	24.17
31	19.98	---	19.88	---	21.70	---	23.34	24.23	---	25.18	---	24.22
Max	20.50	20.07	19.92	20.97	21.74	22.51	23.34	24.23	24.89	25.33	25.11	24.62
Min	19.98	19.64	19.59	19.94	21.02	21.66	22.52	23.33	24.19	24.82	24.44	23.99

Year 2015 Statistics: Year Max 25.33; Year Min 19.59

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 2)

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	01/06/2015	11:38	5	0.01	G	---	---	---	---	F	---	SNWA
		04/07/2015	09:35	3	0.01	G	---	---	---	---	F	---	SNWA
		07/07/2015	11:38	2	0.01	E	---	---	---	---	F	---	SNWA
		10/06/2015	10:45	2	0.01	G	---	---	---	---	F	---	SNWA
1845702	South Millick Spring	01/06/2015	09:47	489	1.1	E	---	---	---	---	F	---	SNWA
		04/07/2015	13:00	503	1.1	E	---	---	---	---	F	---	SNWA
		07/07/2015	09:52	412	0.92	G	---	---	---	---	F	---	SNWA
		10/07/2015	14:45	525	1.2	E	---	---	---	---	F	---	SNWA
1845901	Layton Spring	01/07/2015	09:56	0.0	0.0	E	---	---	---	---	NA	Site is dry.	SNWA
		04/09/2015	07:07	0.0	0.0	E	---	---	---	---	NA	Site is dry.	SNWA
		07/06/2015	18:24	0.0	0.0	E	---	---	---	---	NA	Site is dry.	SNWA
		10/07/2015	15:09	0.0	0.0	E	---	---	---	---	NA	Site is dry.	SNWA
1846201	Swallow Springs	04/09/2015	14:02	346	0.77	G	---	---	---	---	M	Sum of all channels.	SNWA
		06/03/2015	13:10	440	0.98	P	---	---	---	---	M	Sum of all channels.	SNWA
		07/21/2015	15:12	426	0.95	P	---	---	---	---	M	Sum of all channels.	SNWA
		09/14/2015	15:18	330	0.74	P	---	---	---	---	M	Sum of all channels.	SNWA
		10/26/2015	16:36	328	0.73	P	---	---	---	---	M	Sum of all channels.	SNWA
1847101	Keegan Spring near Piermont, NV	01/06/2015	13:52	192	0.43	E	---	---	---	---	F	---	SNWA
		04/07/2015	12:13	184	0.41	E	---	---	---	---	F	---	SNWA
		04/08/2015	12:15	217	0.48	G	---	5	---	---	F	---	SNWA
		09/16/2015	16:09	168	0.38	E	13	12	74	6.92	F	---	SNWA
		10/28/2015	17:55	176	0.39	E	---	---	---	---	F	---	SNWA
		12/09/2015	13:00	192	0.43	E	10.9	---	88.3	6.89	F	---	SNWA
1847301	Rock Spring	02/02/2015	16:25	14	0.03	E	11.4	12	645	7.55	F	---	SNWA
		04/06/2015	16:30	21	0.05	G	---	16	---	---	F	---	SNWA
		06/02/2015	10:30	18	0.04	E	---	---	---	---	F	---	SNWA
		7/14/2015	16:27	18	0.04	E	16.8	---	636	8.02	F	---	SNWA
		09/15/2015	10:41	14	0.03	E	16.3	19	649	8.09	F	---	SNWA
		12/08/2015	13:50	14	0.03	F	12.7	15	670	8.12	F	---	SNWA

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

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
1848001	Turnley Spring	02/03/2015	10:55	63	0.14	E	11.6	14	549	7.57	F	---	SNWA
		06/02/2015	09:10	53	0.12	E	---	---	---	---	F	---	SNWA
		09/15/2015	11:30	40	0.09	E	12.3	16	541	7.28	F	---	SNWA
		12/08/2015	09:12	28	0.06	P	12.2	12	549	7.05	F	---	SNWA
1848401	Cleveland Ranch Spring North Flume	01/06/2015	15:45	18	0.04	G	---	---	---	---	F	---	SNWA
		07/07/2015	14:22	10	0.02	E	---	---	---	---	F	---	SNWA
		10/07/2015	11:10	12	0.03	E	---	---	---	---	F	---	SNWA
1848501	Cleveland Ranch Spring South	01/06/2015	16:17	63	0.14	E	---	---	---	---	F	---	SNWA
		10/07/2015	10:30	60	0.13	E	---	---	---	---	F	---	SNWA
3938381141218001	184 N20 E69 34 1 Mikes Spring	02/02/2015	15:30	26	0.06	F	---	10	---	---	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; NA = Not Applicable

Note: The Seep was observed to be dry in 2015.



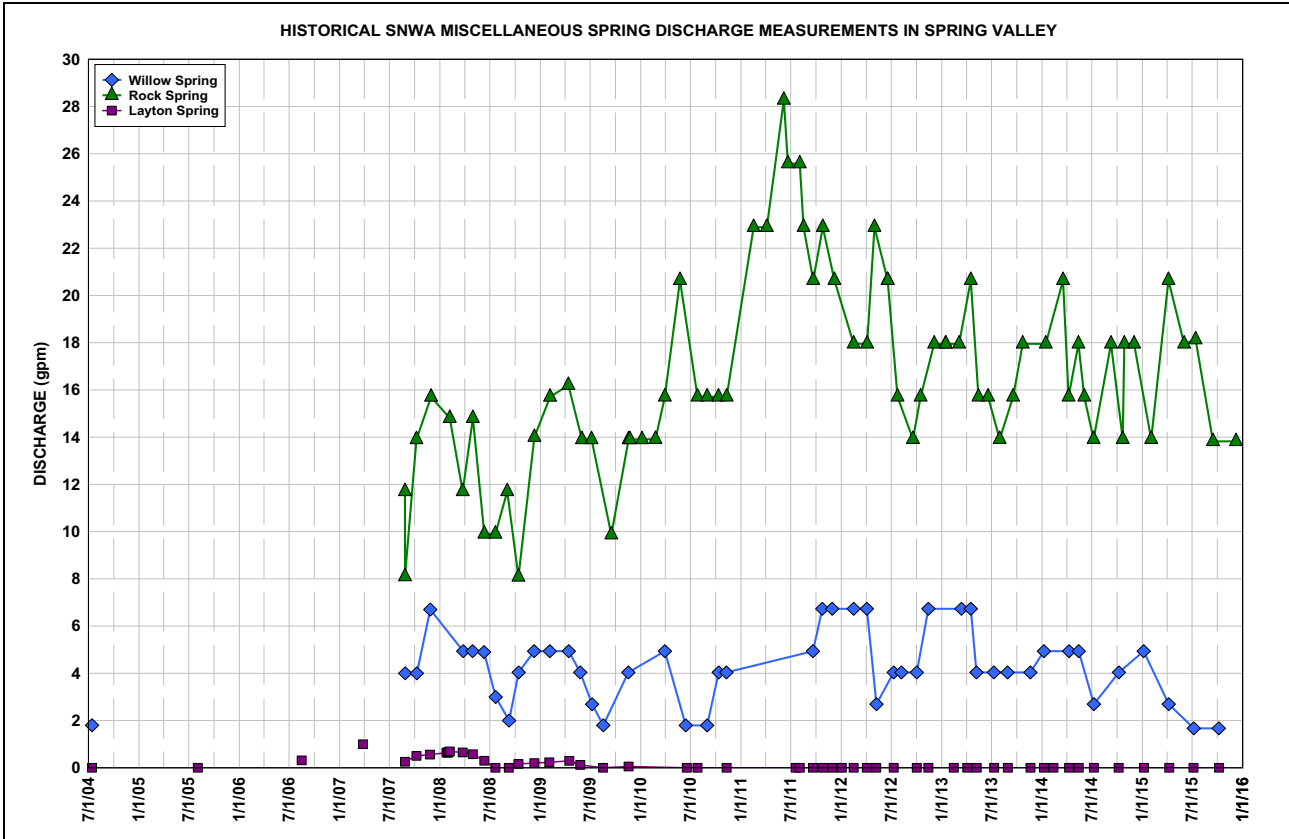
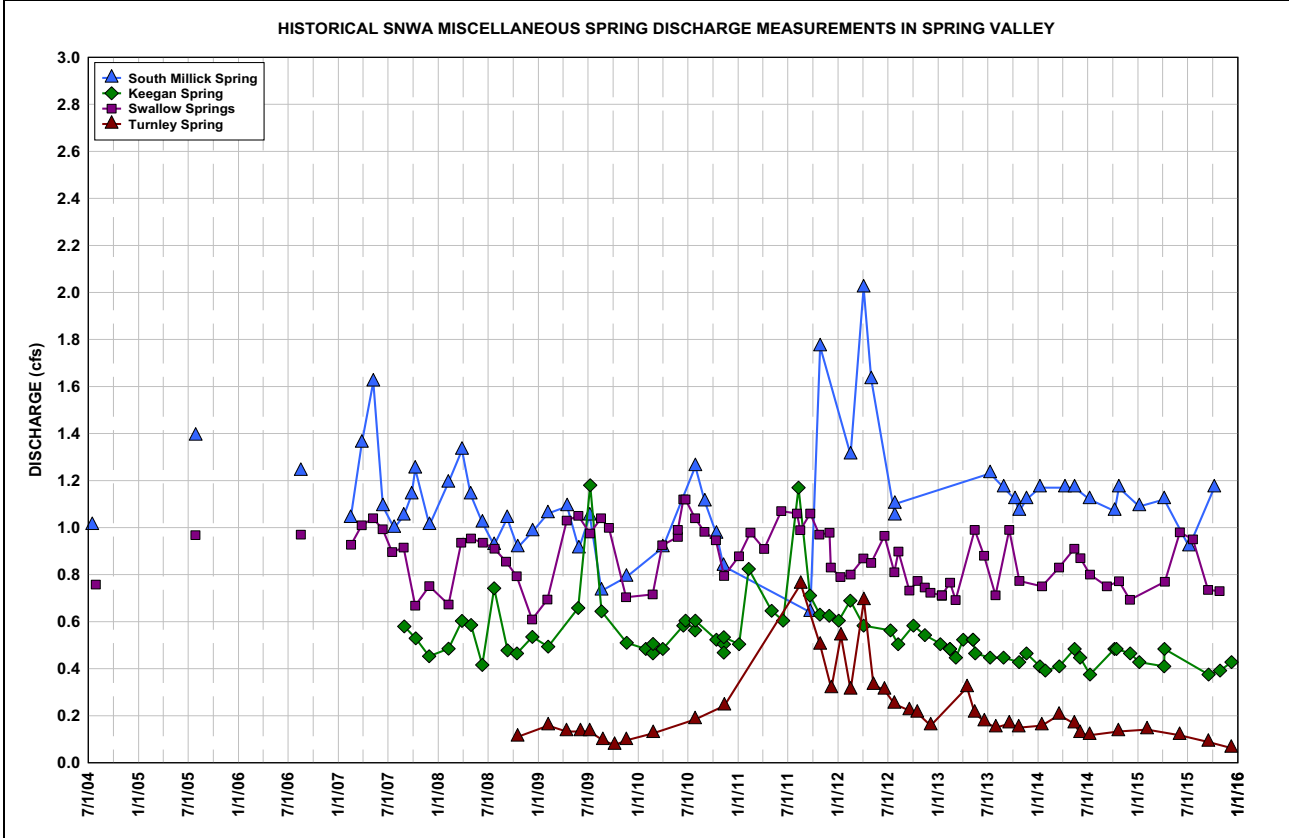




Table C-2
SV3M Plan Periodic Piezometer Water-Level Data
 (Page 1 of 2)

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	1/6/2015	14.10	S	T
					2/18/2015	14.69	S	T
					4/8/2015	15.45	S	T
					7/7/2015	12.55	S	T
					10/6/2015	14.32	S	T
SPR7011Z	184 N11 E67 23ADDD1	Blind Spring	31	5,769.71	1/6/2015	6.43	S	T
					2/18/2015	6.05	S	T
					4/8/2015	5.83	S	T
					7/7/2015	6.53	S	T
					10/6/2015	7.92	S	T
SPR7012Z	184 N15 E67 30BDBD1	Four Wheel Drive Spring	25	5,756.22	1/7/2015	1.68	S	T
					4/7/2015	1.48	S	T
					7/7/2015	1.81	S	T
					10/7/2015	2.48	S	T
SPR7014Z	184 N12 E67 26ACAD1	The Seep	31	5,778.54	1/6/2015	13.28	S	T
					2/18/2015	13.35	S	T
					4/7/2015	13.41	S	T
					7/7/2015	13.64	S	T
					10/7/2015	14.31	S	T
SPR7015Z	184 N17 E67 30CADA1	West Spring Valley Complex	38	5,602.90	1/6/2015	5.43	S	T
					4/7/2015	5.46	S	T
					7/7/2015	6.20	S	T
					10/7/2015	6.04	S	T
SPR7016Z	184 N15 E67 09BBBA1	Unnamed Spring 5	32	5,645.67	1/7/2015	2.40	S	T
					4/7/2015	2.22	S	T
					7/7/2015	2.68	S	T
					10/7/2015	3.11	S	T
SPR7018Z	184 N17 E67 25CDCA1	South Millick Spring	25	5,587.16	1/6/2015	5.83	S	T
					4/7/2015	5.79	S	T
					7/7/2015	5.72	S	T
					10/7/2015	5.77	S	T
SPR7019Z	184 N14 E67 04DBAB1	Layton Spring	35	5,686.63	1/7/2015	9.36	S	T
					4/7/2015	9.16	S	T
					7/6/2015	9.40	S	T
					10/7/2015	9.97	S	T
SPR7020Z	184 N22 E66 17CAAC1	Stonehouse Spring	9	6,264.62	1/6/2015	1.76	S	T
					4/7/2015	1.49	S	T
					7/7/2015	2.94	S	T
					10/6/2015	2.72	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	1/6/2015	-1.73	S	T
					4/7/2015	-1.95	S	T
					7/7/2015	-0.42	S	T
					10/7/2015	-1.09	S	T
SPR7022Z	184 N21 E66 15BCDD1	Willow Spring	35	5,987.54	1/6/2015	13.28	S	T
					4/7/2015	13.32	S	T
					7/7/2015	13.81	S	T
					10/6/2015	13.80	S	T
SPR7031Z	184 N16 E67 20CCDC1	Cleveland Ranch North Spring	10.3	5,637.32	1/6/2015	1.07	S	T
					4/7/2015	1.24	S	S
					7/7/2015	3.06	S	T
					10/7/2015	2.85	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.

Note: SNWA tape calibration program started in August 2008.



**Table C-3
Station Number 1847301 - Rock Spring near Osceola, NV, Water Year 2015
Mean Daily Discharge Values**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.04	0.05	0.04	0.03	0.05	0.05	0.05	0.05	0.04	0.04	0.03
2	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.03
3	0.04	0.04	0.04	0.04	0.03	0.05	0.05	0.05	0.05	0.04	0.04	0.04
4	0.04	0.04	0.04	0.04	0.03	0.05	0.05	0.05	0.05	0.05	0.04	0.03
5	0.04	0.04	0.04	0.04	0.03	0.04	0.05	0.05	0.04	0.05	0.04	0.03
6	0.04	0.04	0.04	0.04	0.03	0.05	0.05	0.05	0.05	0.04	0.04	0.03
7	0.04	0.04	0.04	0.04	0.03	0.04	0.05	0.05	0.04	0.04	0.04	0.03
8	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.03
9	0.04	0.04	0.05	0.04	0.03	0.05	0.05	0.05	0.04	0.04	0.04	0.03
10	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.03
11	0.03	0.05	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.03
12	0.04	0.04	0.05	0.04	0.03	0.05	0.05	0.05	0.04	0.04	0.04	0.03
13	0.04	0.04	0.05	0.04	0.03	0.04	0.05	0.05	0.05	0.04	0.04	0.03
14	0.04	0.04	0.05	0.04	0.03	0.05	0.05	0.05	0.05	0.04	0.04	0.03
15	0.04	0.04	0.05	0.04	0.03	0.05	0.05	0.05	0.05	0.04	0.04	0.03
16	0.04	0.04	0.05	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.03
17	0.04	0.05	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.03
18	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.03	0.03
19	0.04	0.05	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.03	0.03
20	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.03	0.03
21	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.03	0.03
22	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.03	0.03
23	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.04
24	0.05	0.04	0.04	0.03	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.04
25	0.05	0.04	0.04	0.03	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.04
26	0.05	0.04	0.04	0.03	0.05	0.05	0.05	0.05	0.04	0.05	0.03	0.04
27	0.05	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.05	0.03	0.04
28	0.04	0.05	0.04	0.03	0.05	0.05	0.05	0.04	0.05	0.04	0.03	0.04
29	0.04	0.04	0.04	0.03	--	0.05	0.05	0.04	0.04	0.04	0.03	0.04
30	0.04	0.05	0.04	0.03	--	0.05	0.05	0.05	0.04	0.04	0.03	0.04
31	0.04	--	0.04	0.03	--	0.05	--	0.05	--	0.04	0.03	--
Total	1.3	1.3	1.3	1.2	1.1	1.5	1.5	1.5	1.3	1.3	1.1	1.0
Min	0.03	0.04	0.04	0.03	0.03	0.04	0.05	0.04	0.04	0.04	0.03	0.03
Max	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04
Mean	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.03
Acre-feet	2.5	2.5	2.6	2.3	2.1	3.0	3.0	3.0	2.6	2.5	2.2	2.0

Note: Values are in cfs unless noted otherwise.

Annual Statistics	
Min:	0.03
Max:	0.05
Annual Total (Acre-ft):	30.3
Annual Mean (cfs)	0.04

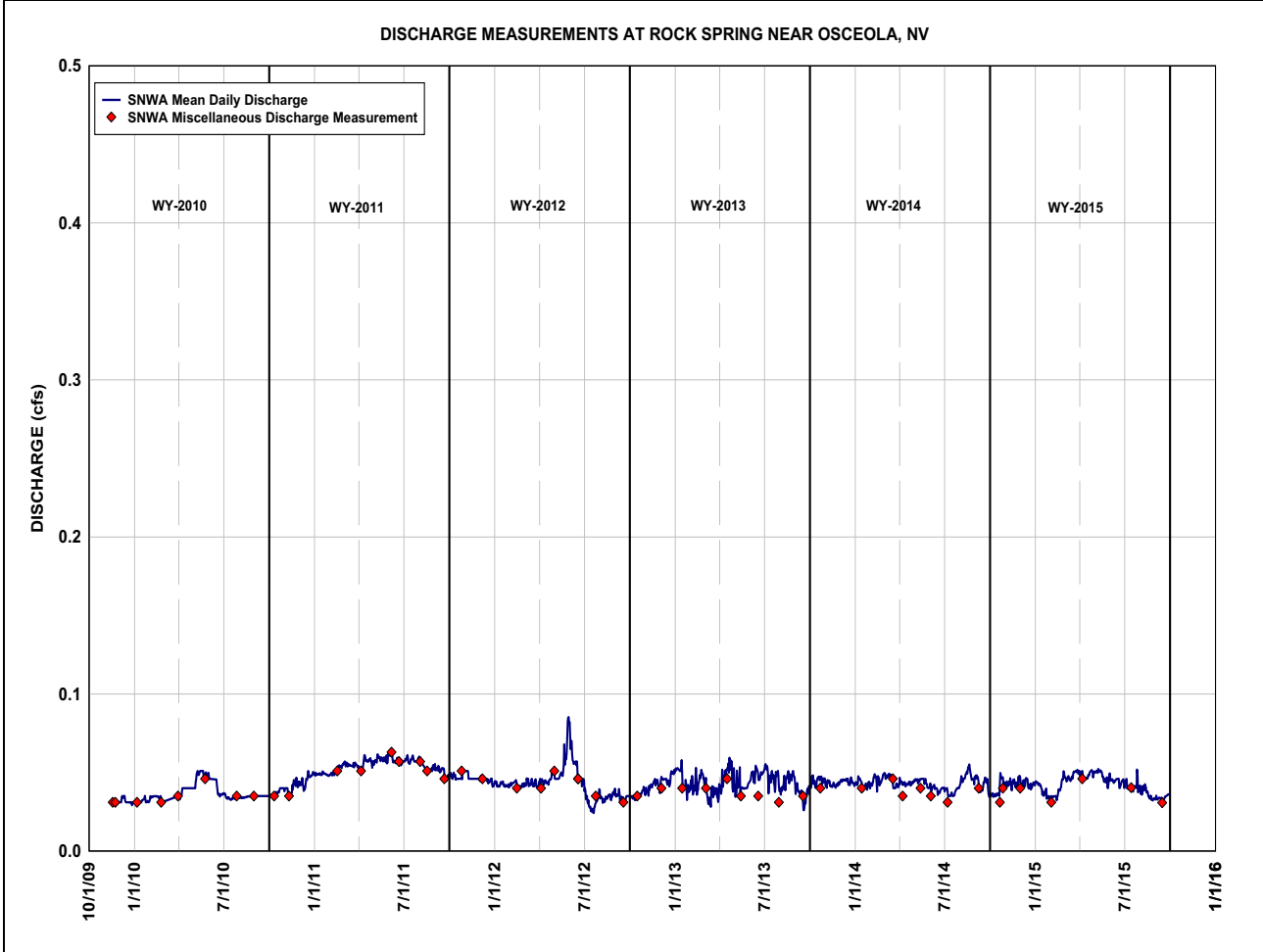


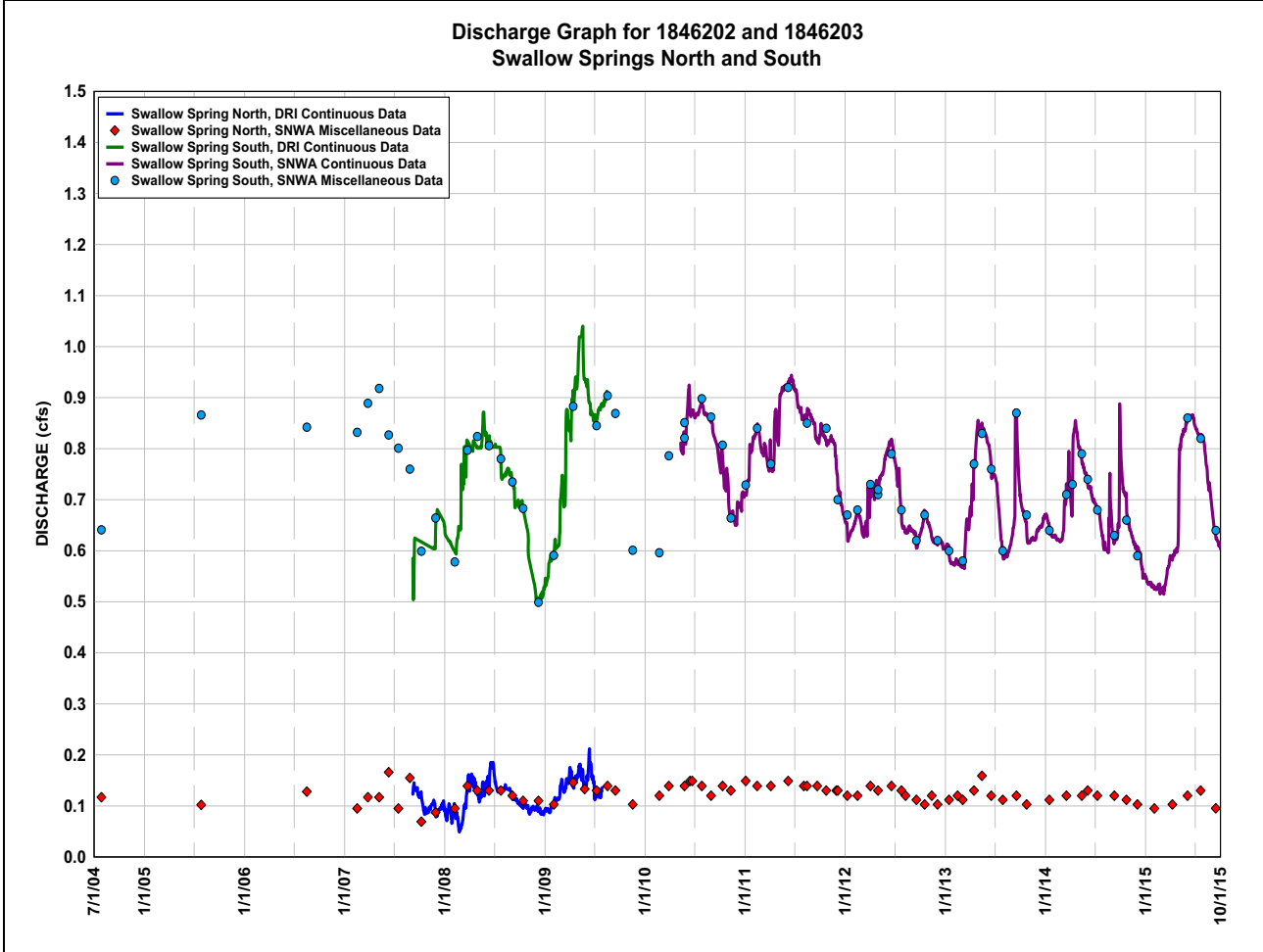


Table C-4
Station Number 1846203 - Swallow Springs South near Minerva, NV, Water Year 2015
Mean Daily Discharge Values

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.82	0.66	0.60	0.55	0.52	0.52	0.59	0.65	0.86	0.84	0.82	0.68
2	0.80	0.65	0.60	0.55	0.53	0.52	0.59	0.70	0.86	0.84	0.81	0.68
3	0.78	0.65	0.60	0.55	0.53	0.52	0.58	0.75	0.86	0.84	0.81	0.67
4	0.77	0.64	0.60	0.55	0.53	0.52	0.59	0.78	0.86	0.84	0.80	0.66
5	0.76	0.64	0.61	0.54	0.52	0.52	0.58	0.80	0.86	0.84	0.80	0.66
6	0.76	0.64	0.60	0.54	0.52	0.53	0.58	0.80	0.86	0.84	0.79	0.65
7	0.74	0.64	0.60	0.54	0.53	0.52	0.59	0.81	0.86	0.84	0.79	0.65
8	0.74	0.64	0.60	0.54	0.53	0.52	0.58	0.80	0.86	0.83	0.78	0.65
9	0.74	0.64	0.60	0.54	0.53	0.52	0.58	0.81	0.86	0.83	0.78	0.65
10	0.73	0.63	0.59	0.54	0.53	0.53	0.59	0.81	0.86	0.83	0.77	0.64
11	0.72	0.63	0.59	0.53	0.52	0.52	0.59	0.82	0.86	0.83	0.77	0.64
12	0.72	0.63	0.59	0.54	0.52	0.53	0.59	0.82	0.86	0.83	0.76	0.64
13	0.72	0.63	0.60	0.54	0.53	0.53	0.59	0.82	0.86	0.83	0.76	0.63
14	0.72	0.63	0.59	0.54	0.52	0.53	0.59	0.82	0.86	0.83	0.75	0.63
15	0.71	0.62	0.58	0.53	0.53	0.54	0.59	0.83	0.86	0.83	0.74	0.62
16	0.71	0.62	0.58	0.54	0.53	0.54	0.59	0.83	0.86	0.83	0.74	0.62
17	0.71	0.62	0.57	0.54	0.53	0.54	0.60	0.83	0.86	0.83	0.73	0.62
18	0.71	0.62	0.57	0.54	0.53	0.55	0.60	0.83	0.86	0.82	0.73	0.62
19	0.71	0.62	0.56	0.54	0.53	0.55	0.60	0.84	0.86	0.83	0.72	0.62
20	0.71	0.61	0.56	0.54	0.53	0.56	0.60	0.84	0.86	0.83	0.72	0.62
21	0.71	0.62	0.56	0.54	0.54	0.56	0.60	0.84	0.86	0.83	0.73	0.62
22	0.71	0.61	0.55	0.53	0.52	0.56	0.60	0.84	0.87	0.83	0.73	0.62
23	0.70	0.61	0.55	0.53	0.52	0.56	0.60	0.83	0.86	0.82	0.73	0.62
24	0.67	0.61	0.55	0.53	0.52	0.57	0.60	0.84	0.86	0.83	0.72	0.61
25	0.67	0.60	0.55	0.53	0.53	0.57	0.60	0.84	0.86	0.83	0.72	0.61
26	0.67	0.61	0.55	0.53	0.53	0.57	0.60	0.84	0.86	0.83	0.71	0.61
27	0.67	0.61	0.55	0.53	0.52	0.57	0.60	0.84	0.86	0.82	0.71	0.61
28	0.66	0.60	0.55	0.53	0.53	0.57	0.61	0.85	0.85	0.82	0.70	0.61
29	0.66	0.60	0.55	0.53	--	0.58	0.61	0.85	0.85	0.82	0.69	0.61
30	0.66	0.61	0.55	0.53	--	0.58	0.62	0.85	0.84	0.82	0.69	0.61
31	0.65	--	0.55	0.53	--	0.59	--	0.86	--	0.82	0.68	--
Total	22.2	18.7	17.8	16.7	14.8	16.9	17.8	25.3	25.8	25.7	23.2	19.0
Min	0.65	0.60	0.55	0.53	0.52	0.52	0.58	0.65	0.84	0.82	0.68	0.61
Max	0.82	0.66	0.61	0.55	0.54	0.59	0.62	0.86	0.87	0.84	0.82	0.68
Mean	0.72	0.62	0.58	0.54	0.53	0.54	0.59	0.82	0.86	0.83	0.75	0.63
Acre-feet	44	37	35	33	29	33	35	50	51	51	46	38

Note: Values are in cfs unless noted otherwise.

Annual Statistics	
Min:	0.52
Max:	0.87
Annual Total (Acre-ft):	483
Annual Mean (cfs)	0.67



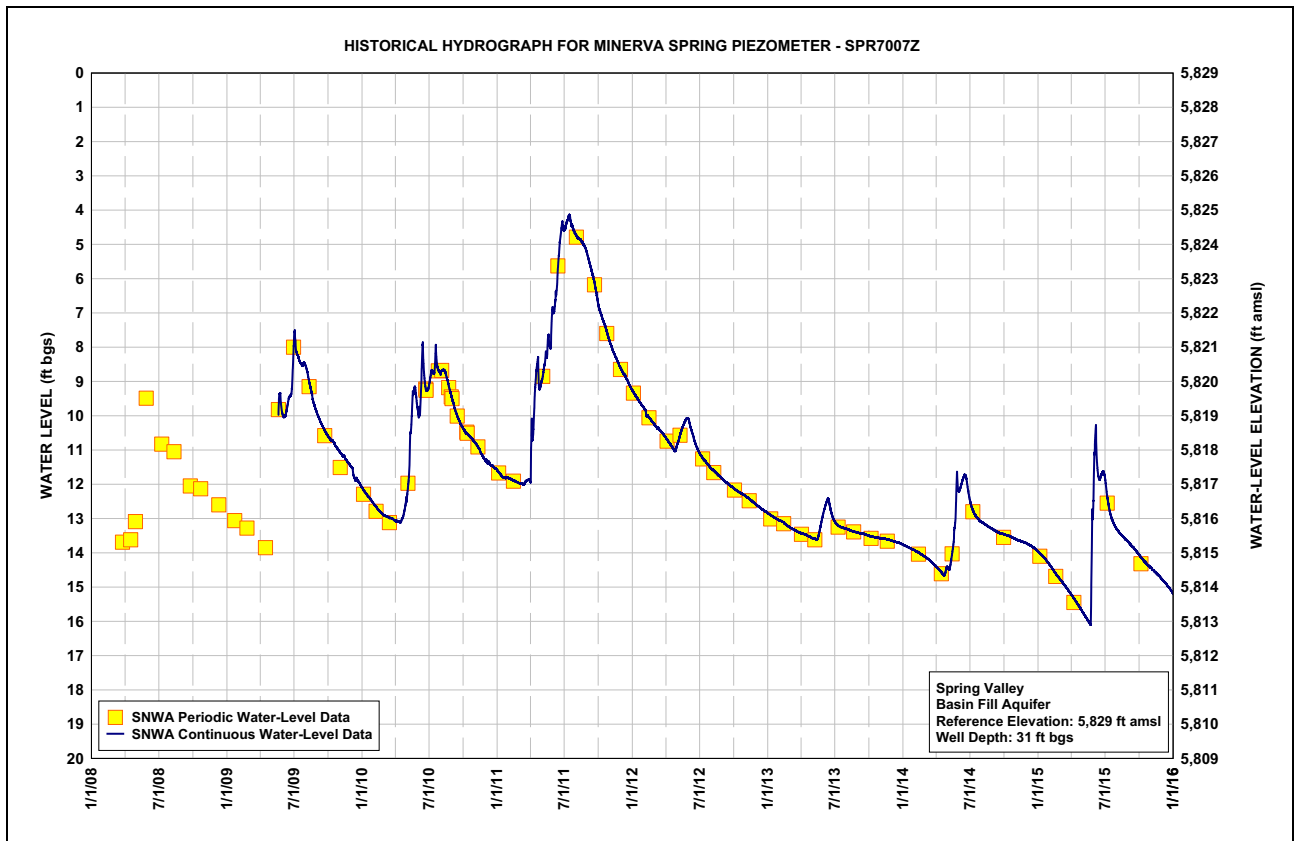
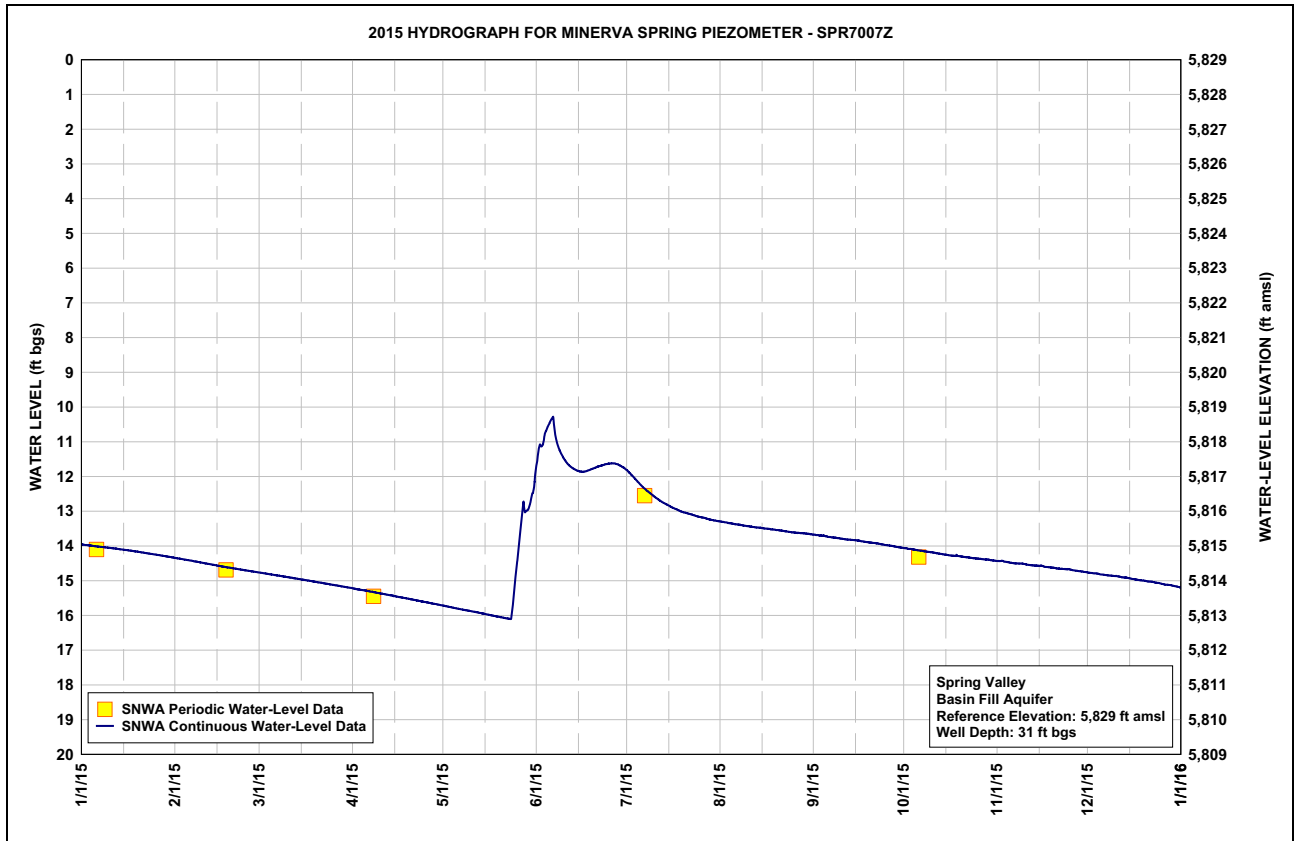


**Table C-5
Minerva Spring Piezometer SPR7007Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.96	14.35	14.77	15.23	15.72	11.43	11.85	13.30	13.68	14.06	14.43	14.77
2	13.97	14.36	14.78	15.24	15.74	11.12	11.94	13.32	13.69	14.08	14.43	14.78
3	13.98	14.38	14.80	15.26	15.76	10.98	12.04	13.33	13.69	14.09	14.45	14.79
4	13.99	14.39	14.81	15.27	15.78	10.64	12.13	13.35	13.71	14.10	14.46	14.80
5	14.01	14.41	14.83	15.28	15.79	10.45	12.22	13.36	13.73	14.12	14.48	14.82
6	14.02	14.42	14.84	15.30	15.81	10.33	12.31	13.38	13.74	14.13	14.50	14.83
7	14.02	14.44	14.85	15.32	15.83	10.87	12.39	13.39	13.75	14.15	14.50	14.84
8	14.03	14.46	14.87	15.34	15.85	11.19	12.45	13.40	13.77	14.16	14.51	14.85
9	14.05	14.47	14.88	15.35	15.86	11.37	12.53	13.42	13.78	14.17	14.51	14.86
10	14.05	14.49	14.90	15.37	15.88	11.52	12.60	13.43	13.79	14.18	14.53	14.87
11	14.07	14.50	14.91	15.38	15.89	11.64	12.66	13.45	13.80	14.20	14.55	14.88
12	14.08	14.52	14.93	15.40	15.91	11.72	12.72	13.46	13.81	14.21	14.55	14.90
13	14.09	14.54	14.94	15.42	15.93	11.78	12.77	13.47	13.82	14.23	14.56	14.91
14	14.10	14.55	14.95	15.43	15.95	11.82	12.81	13.48	13.83	14.24	14.57	14.92
15	14.11	14.57	14.97	15.45	15.97	11.85	12.86	13.49	13.84	14.26	14.57	14.94
16	14.12	14.59	14.98	15.47	15.99	11.86	12.91	13.50	13.85	14.27	14.59	14.96
17	14.14	14.60	15.00	15.49	16.00	11.85	12.94	13.51	13.87	14.28	14.61	14.97
18	14.15	14.62	15.01	15.50	16.02	11.82	12.98	13.53	13.88	14.29	14.61	14.98
19	14.16	14.63	15.03	15.52	16.04	11.78	13.02	13.54	13.89	14.29	14.62	14.99
20	14.18	14.64	15.04	15.53	16.05	11.75	13.04	13.55	13.91	14.31	14.64	15.01
21	14.19	14.66	15.06	15.55	16.07	11.71	13.07	13.56	13.91	14.32	14.65	15.02
22	14.20	14.67	15.07	15.57	16.09	11.69	13.09	13.57	13.93	14.33	14.66	15.03
23	14.22	14.69	15.09	15.59	16.10	11.66	13.12	13.59	13.95	14.34	14.67	15.05
24	14.23	14.70	15.10	15.60	15.47	11.64	13.15	13.60	13.96	14.35	14.67	15.06
25	14.25	14.71	15.12	15.62	14.63	11.63	13.17	13.61	13.98	14.36	14.68	15.08
26	14.26	14.73	15.13	15.64	13.78	11.62	13.18	13.62	13.99	14.37	14.70	15.11
27	14.27	14.74	15.15	15.65	12.94	11.64	13.21	13.63	14.00	14.38	14.71	15.12
28	14.29	14.76	15.16	15.67	12.99	11.67	13.23	13.63	14.02	14.39	14.73	15.12
29	14.30	---	15.18	15.69	12.92	11.72	13.25	13.64	14.04	14.40	14.74	15.15
30	14.32	---	15.19	15.71	12.56	11.78	13.27	13.65	14.05	14.42	14.75	15.16
31	14.33	---	15.21	---	12.13	---	13.29	13.67	---	14.43	---	15.18
Max	14.33	14.76	15.21	15.71	16.10	11.86	13.29	13.67	14.05	14.43	14.75	15.18
Min	13.96	14.35	14.77	15.23	12.13	10.33	11.85	13.30	13.68	14.06	14.43	14.77

Year 2015 Statistics: Year Max 16.10; Year Min 10.33

Note: Water level in ft bgs.

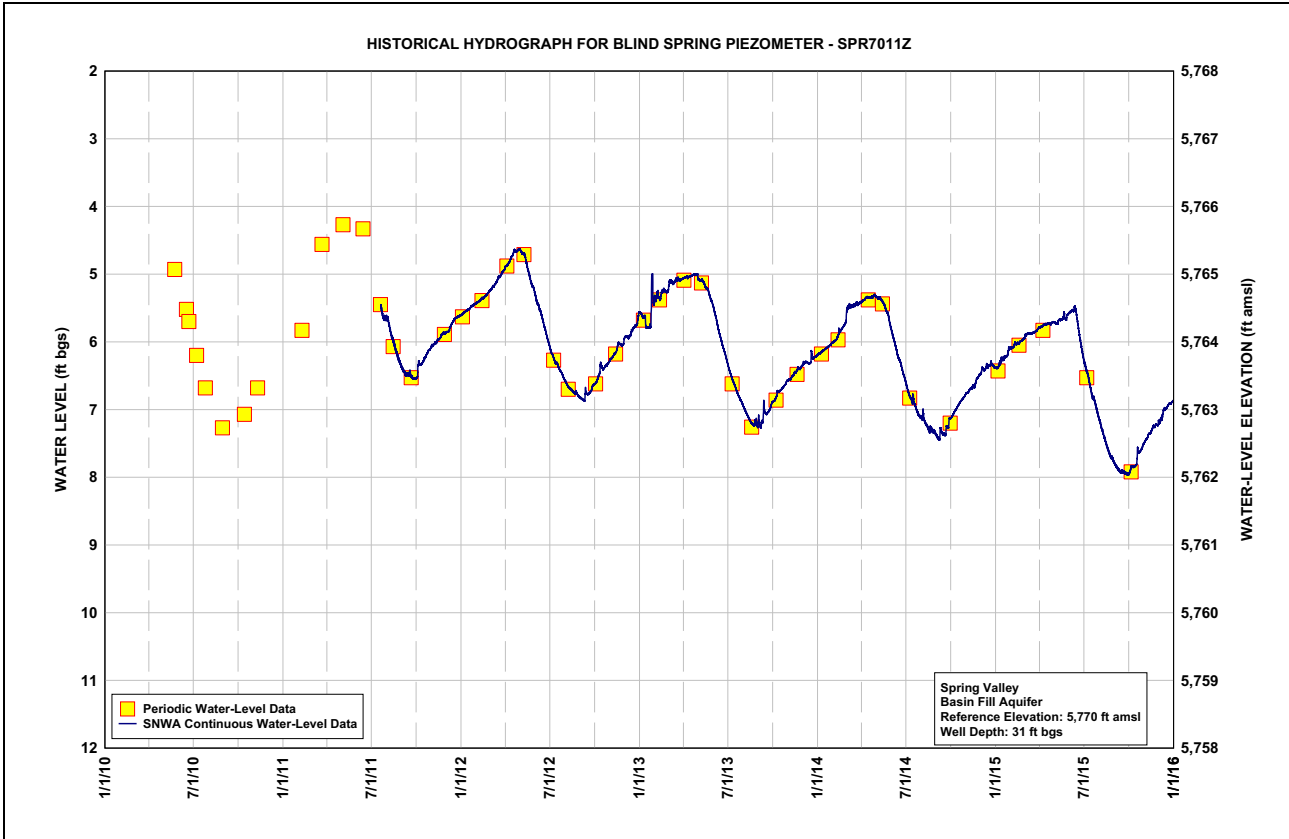
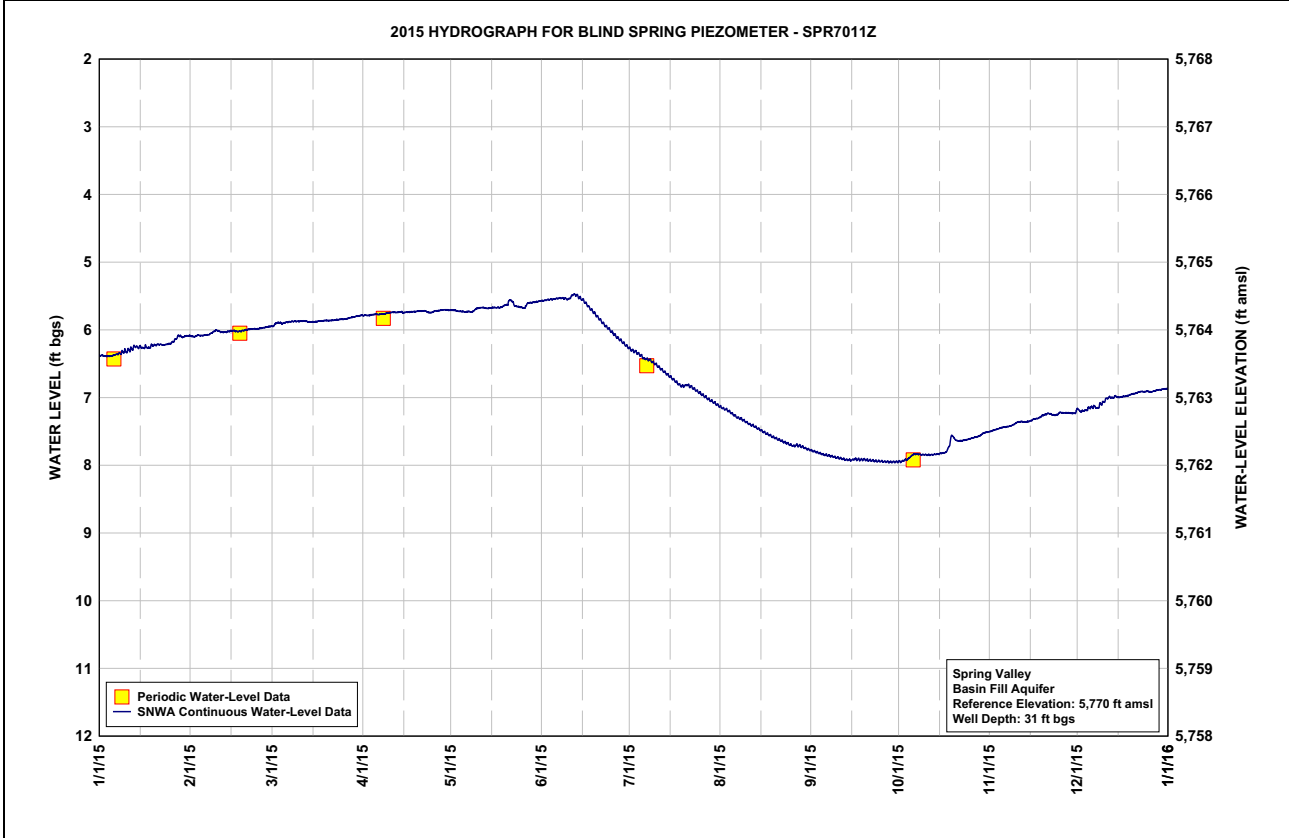




**Table C-6
Blind Spring Piezometer SPR7011Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.38	6.09	5.94	5.79	5.71	5.57	6.29	7.15	7.79	7.94	7.50	7.18
2	6.38	6.10	5.90	5.79	5.71	5.56	6.32	7.17	7.80	7.94	7.48	7.20
3	6.39	6.08	5.89	5.78	5.72	5.55	6.34	7.19	7.82	7.92	7.47	7.19
4	6.39	6.08	5.90	5.77	5.73	5.55	6.36	7.22	7.83	7.90	7.46	7.19
5	6.38	6.08	5.89	5.77	5.73	5.54	6.40	7.25	7.85	7.85	7.44	7.14
6	6.37	6.08	5.88	5.77	5.73	5.53	6.43	7.28	7.85	7.84	7.43	7.13
7	6.36	6.07	5.88	5.76	5.73	5.53	6.44	7.30	7.86	7.84	7.43	7.15
8	6.35	6.05	5.87	5.76	5.73	5.53	6.46	7.32	7.88	7.84	7.42	7.15
9	6.32	6.02	5.87	5.75	5.70	5.54	6.50	7.35	7.89	7.84	7.40	7.09
10	6.32	6.01	5.87	5.74	5.68	5.54	6.53	7.38	7.90	7.85	7.37	7.06
11	6.30	6.03	5.87	5.74	5.67	5.49	6.56	7.40	7.90	7.85	7.36	7.01
12	6.28	6.03	5.87	5.74	5.67	5.48	6.60	7.42	7.92	7.84	7.36	7.00
13	6.25	6.03	5.88	5.74	5.68	5.50	6.64	7.45	7.92	7.84	7.36	7.00
14	6.26	6.02	5.88	5.74	5.68	5.54	6.68	7.47	7.93	7.83	7.35	6.99
15	6.26	6.01	5.88	5.74	5.67	5.56	6.71	7.50	7.92	7.82	7.34	6.99
16	6.27	6.02	5.88	5.74	5.67	5.62	6.75	7.52	7.91	7.82	7.31	6.99
17	6.26	6.02	5.87	5.73	5.67	5.67	6.79	7.55	7.91	7.79	7.31	6.98
18	6.26	6.02	5.86	5.73	5.66	5.72	6.82	7.57	7.92	7.71	7.29	6.97
19	6.23	6.01	5.86	5.73	5.64	5.77	6.83	7.59	7.92	7.57	7.26	6.95
20	6.22	6.00	5.86	5.72	5.63	5.82	6.82	7.61	7.92	7.63	7.25	6.94
21	6.21	5.99	5.86	5.72	5.56	5.87	6.83	7.63	7.93	7.64	7.24	6.93
22	6.22	5.99	5.85	5.72	5.60	5.92	6.85	7.65	7.93	7.64	7.25	6.91
23	6.22	5.99	5.85	5.74	5.65	5.97	6.88	7.67	7.94	7.63	7.26	6.91
24	6.21	5.98	5.84	5.74	5.66	6.01	6.91	7.69	7.94	7.62	7.25	6.91
25	6.20	5.98	5.84	5.72	5.67	6.05	6.95	7.71	7.94	7.61	7.22	6.91
26	6.17	5.97	5.83	5.72	5.67	6.10	6.98	7.71	7.95	7.59	7.23	6.91
27	6.13	5.96	5.82	5.71	5.60	6.14	7.01	7.70	7.95	7.58	7.22	6.90
28	6.08	5.95	5.81	5.71	5.60	6.18	7.04	7.72	7.95	7.57	7.23	6.89
29	6.11	---	5.80	5.70	5.59	6.22	7.06	7.74	7.95	7.54	7.23	6.88
30	6.09	---	5.79	5.71	5.58	6.26	7.09	7.76	7.95	7.52	7.23	6.87
31	6.09	---	5.79	---	5.57	---	7.12	7.77	---	7.51	---	6.87
Max	6.39	6.10	5.94	5.79	5.73	6.26	7.12	7.77	7.95	7.94	7.50	7.20
Min	6.08	5.95	5.79	5.70	5.56	5.48	6.29	7.15	7.79	7.51	7.22	6.87

Year 2015 Statistics: Year Max 7.95; Year Min 5.48
Note: Water level in ft bgs.





**Table C-7
Four Wheel Drive Spring Piezometer SPR7012Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.70	1.56	1.49	1.44	1.49	1.50	1.72	2.03	2.30	--- ^a	--- ^a	--- ^a
2	1.69	1.55	1.48	1.44	1.49	1.51	1.73	2.04	2.30	--- ^a	--- ^a	--- ^a
3	1.69	1.55	1.48	1.44	1.49	1.51	1.74	2.05	2.31	--- ^a	--- ^a	--- ^a
4	1.69	1.55	1.48	1.43	1.50	1.52	1.75	2.05	2.32	--- ^a	--- ^a	--- ^a
5	1.68	1.55	1.48	1.43	1.50	1.52	1.76	2.06	2.32	--- ^a	--- ^a	--- ^a
6	1.68	1.54	1.48	1.43	1.50	1.52	1.77	2.08	2.33	--- ^a	--- ^a	--- ^a
7	1.67	1.54	1.47	1.43	1.50	1.53	1.78	2.08	2.34	--- ^a	--- ^a	--- ^a
8	1.66	1.54	1.47	1.44	1.50	1.54	1.78	2.09	2.34	--- ^a	--- ^a	--- ^a
9	1.66	1.53	1.47	1.47	1.51	1.53	1.79	2.10	2.35	--- ^a	--- ^a	--- ^a
10	1.65	1.53	1.46	1.46	1.50	1.54	1.80	2.11	2.36	--- ^a	--- ^a	--- ^a
11	1.64	1.53	1.46	1.46	1.50	1.55	1.81	2.12	2.36	--- ^a	--- ^a	--- ^a
12	1.64	1.53	1.46	1.47	1.49	1.55	1.82	2.13	2.37	--- ^a	--- ^a	--- ^a
13	1.64	1.52	1.46	1.47	1.50	1.56	1.83	2.14	2.37	--- ^a	--- ^a	--- ^a
14	1.63	1.52	1.46	1.46	1.50	1.57	1.84	2.15	2.38	--- ^a	--- ^a	--- ^a
15	1.63	1.52	1.46	1.47	1.50	1.57	1.85	2.16	2.38	--- ^a	--- ^a	--- ^a
16	1.62	1.51	1.45	1.47	1.50	1.58	1.86	2.17	2.39	--- ^a	--- ^a	--- ^a
17	1.62	1.51	1.45	1.47	1.51	1.59	1.87	2.18	2.39	--- ^a	--- ^a	--- ^a
18	1.61	1.51	1.45	1.47	1.51	1.60	1.89	2.18	2.39	--- ^a	--- ^a	--- ^a
19	1.61	1.50	1.45	1.47	1.51	1.60	1.90	2.19	2.40	--- ^a	--- ^a	--- ^a
20	1.60	1.50	1.45	1.46	1.51	1.61	1.91	2.20	2.40	--- ^a	--- ^a	--- ^a
21	1.60	1.50	1.44	1.47	1.50	1.62	1.92	2.21	2.41	--- ^a	--- ^a	--- ^a
22	1.60	1.50	1.44	1.47	1.51	1.63	1.92	2.22	2.42	--- ^a	--- ^a	--- ^a
23	1.59	1.50	1.44	1.47	1.51	1.64	1.93	2.23	2.42	--- ^a	--- ^a	--- ^a
24	1.59	1.49	1.44	1.47	1.51	1.65	1.95	2.24	2.42	--- ^a	--- ^a	--- ^a
25	1.59	1.49	1.45	1.47	1.51	1.67	1.96	2.24	2.42	--- ^a	--- ^a	--- ^a
26	1.58	1.49	1.45	1.48	1.50	1.67	1.97	2.25	2.43	--- ^a	--- ^a	--- ^a
27	1.58	1.48	1.44	1.49	1.51	1.68	1.98	2.26	2.44	--- ^a	--- ^a	--- ^a
28	1.57	1.48	1.44	1.49	1.50	1.69	1.99	2.27	2.44	--- ^a	--- ^a	--- ^a
29	1.57	---	1.44	1.48	1.50	1.70	2.00	2.27	2.44	--- ^a	--- ^a	--- ^a
30	1.56	---	1.44	1.49	1.50	1.71	2.01	2.28	2.45	--- ^a	--- ^a	--- ^a
31	1.56	---	1.43	---	1.50	---	2.02	2.29	---	--- ^a	--- ^a	--- ^a
Max	1.70	1.56	1.49	1.49	1.51	1.71	2.02	2.29	2.45	--- ^a	--- ^a	--- ^a
Min	1.56	1.48	1.43	1.43	1.49	1.50	1.72	2.03	2.30	--- ^a	--- ^a	--- ^a

Year 2015 Statistics: Year Max ---; Year Min ---

Note: Water level in ft bgs.

^aSite inaccessible. Data currently unavailable.

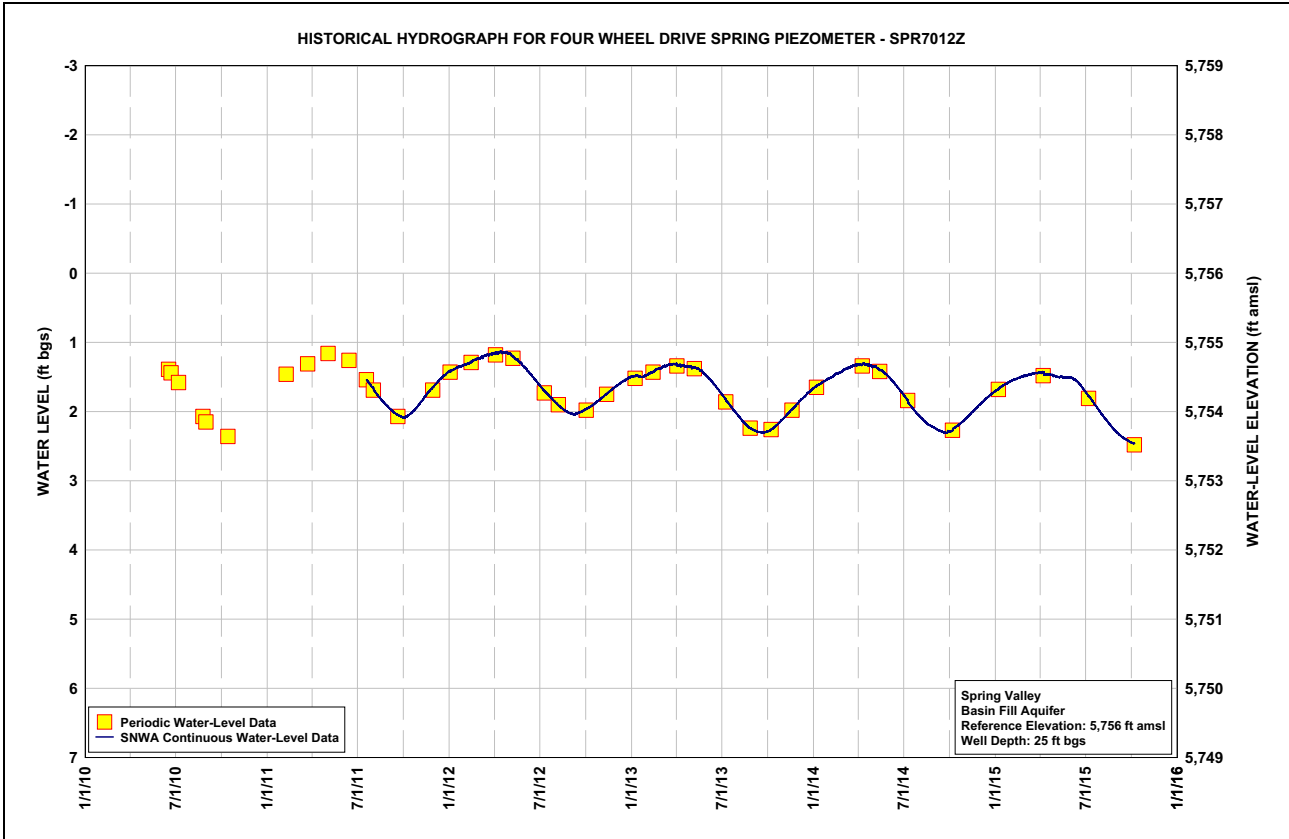
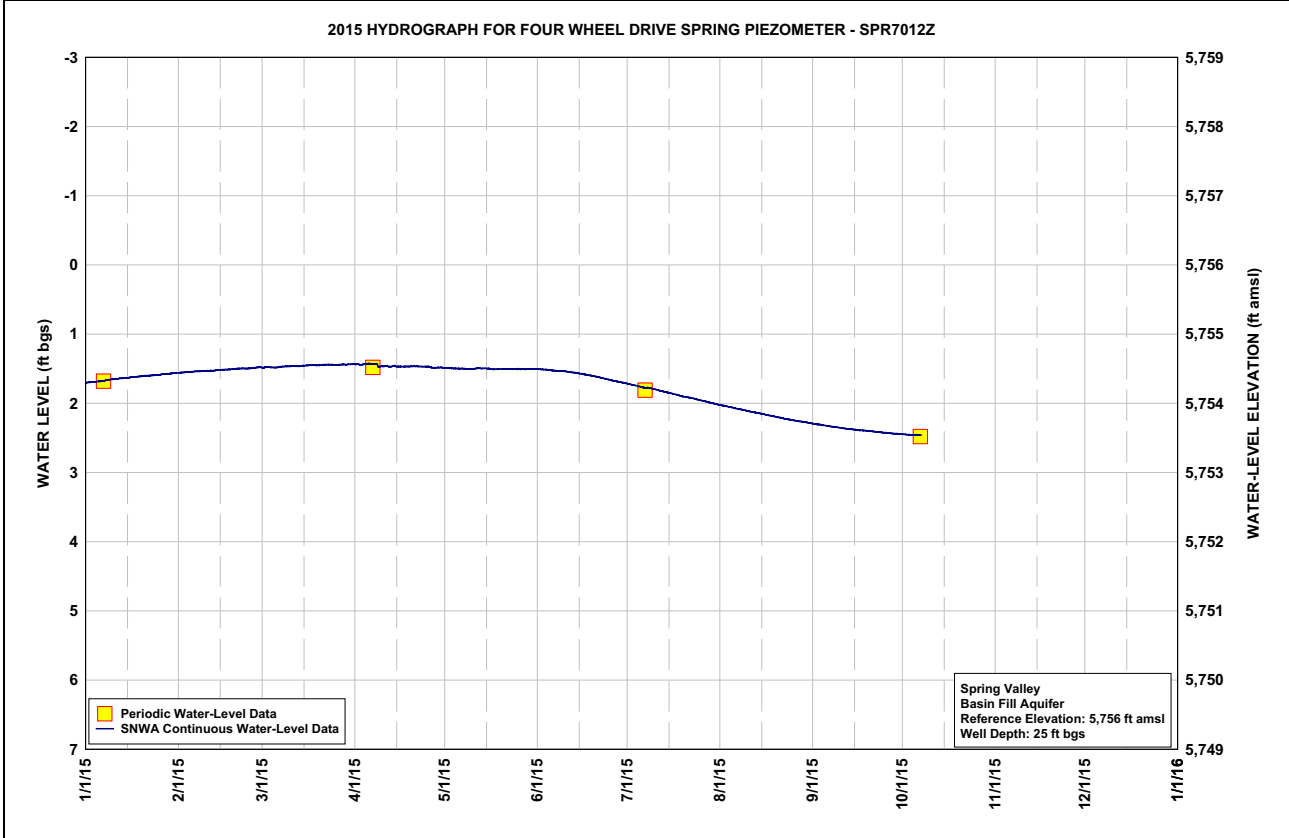




Table C-8
The Seep Piezometer SPR7014Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.27	13.32	13.35	13.38	13.42	13.19	13.54	13.80	14.05	14.24	14.37	14.49
2	13.27	13.32	13.35	13.38	13.42	13.22	13.55	13.81	14.05	14.24	14.37	14.49
3	13.27	13.32	13.35	13.38	13.43	13.24	13.56	13.81	14.06	14.25	14.38	14.49
4	13.28	13.32	13.36	13.38	13.43	13.26	13.57	13.82	14.07	14.25	14.38	14.50
5	13.28	13.32	13.36	13.38	13.43	13.28	13.58	13.83	14.08	14.26	14.38	14.50
6	13.28	13.33	13.36	13.38	13.43	13.28	13.59	13.84	14.08	14.26	14.39	14.50
7	13.28	13.33	13.36	13.38	13.43	13.29	13.59	13.85	14.09	14.26	14.39	14.51
8	13.28	13.33	13.36	13.39	13.43	13.30	13.60	13.86	14.10	14.27	14.39	14.51
9	13.28	13.33	13.36	13.39	13.42	13.31	13.61	13.86	14.10	14.27	14.40	14.51
10	13.29	13.33	13.36	13.39	13.43	13.33	13.62	13.87	14.11	14.28	14.40	14.52
11	13.29	13.33	13.36	13.39	13.43	13.33	13.63	13.88	14.12	14.28	14.41	14.52
12	13.29	13.33	13.36	13.39	13.43	13.34	13.64	13.89	14.13	14.29	14.41	14.53
13	13.29	13.33	13.36	13.39	13.44	13.36	13.64	13.90	14.13	14.29	14.41	14.53
14	13.30	13.34	13.36	13.39	13.44	13.37	13.66	13.91	14.14	14.30	14.42	14.53
15	13.30	13.34	13.36	13.39	13.44	13.38	13.66	13.91	14.14	14.31	14.42	14.54
16	13.30	13.34	13.36	13.39	13.44	13.39	13.67	13.93	14.15	14.31	14.43	14.54
17	13.30	13.34	13.36	13.40	13.45	13.40	13.68	13.93	14.15	14.31	14.43	14.54
18	13.30	13.34	13.36	13.40	13.45	13.41	13.69	13.94	14.16	14.31	14.43	14.55
19	13.30	13.34	13.37	13.40	13.45	13.42	13.69	13.95	14.16	14.32	14.44	14.55
20	13.30	13.34	13.37	13.40	13.45	13.43	13.69	13.96	14.17	14.32	14.44	14.56
21	13.30	13.34	13.37	13.40	13.45	13.45	13.70	13.97	14.17	14.33	14.45	14.56
22	13.31	13.35	13.37	13.41	13.45	13.46	13.71	13.98	14.18	14.33	14.45	14.56
23	13.31	13.35	13.37	13.41	13.45	13.46	13.72	13.98	14.19	14.34	14.45	14.56
24	13.31	13.35	13.37	13.41	13.45	13.48	13.73	13.99	14.20	14.34	14.46	14.56
25	13.31	13.35	13.37	13.41	13.46	13.48	13.74	14.00	14.20	14.34	14.46	14.57
26	13.31	13.35	13.37	13.41	13.41	13.49	13.75	14.00	14.21	14.35	14.47	14.57
27	13.31	13.35	13.37	13.41	13.24	13.50	13.76	14.01	14.22	14.35	14.47	14.58
28	13.32	13.35	13.37	13.42	12.90	13.51	13.77	14.02	14.22	14.35	14.47	14.58
29	13.32	---	13.38	13.42	13.06	13.52	13.77	14.02	14.23	14.35	14.48	14.58
30	13.32	---	13.38	13.42	13.12	13.53	13.78	14.03	14.23	14.36	14.48	14.59
31	13.32	---	13.38	---	13.16	---	13.79	14.04	---	14.37	---	14.59
Max	13.32	13.35	13.38	13.42	13.46	13.53	13.79	14.04	14.23	14.37	14.48	14.59
Min	13.27	13.32	13.35	13.38	12.90	13.19	13.54	13.80	14.05	14.24	14.37	14.49

Year 2015 Statistics: Year Max 14.59; Year Min 12.90

Note: Water level in ft bgs.

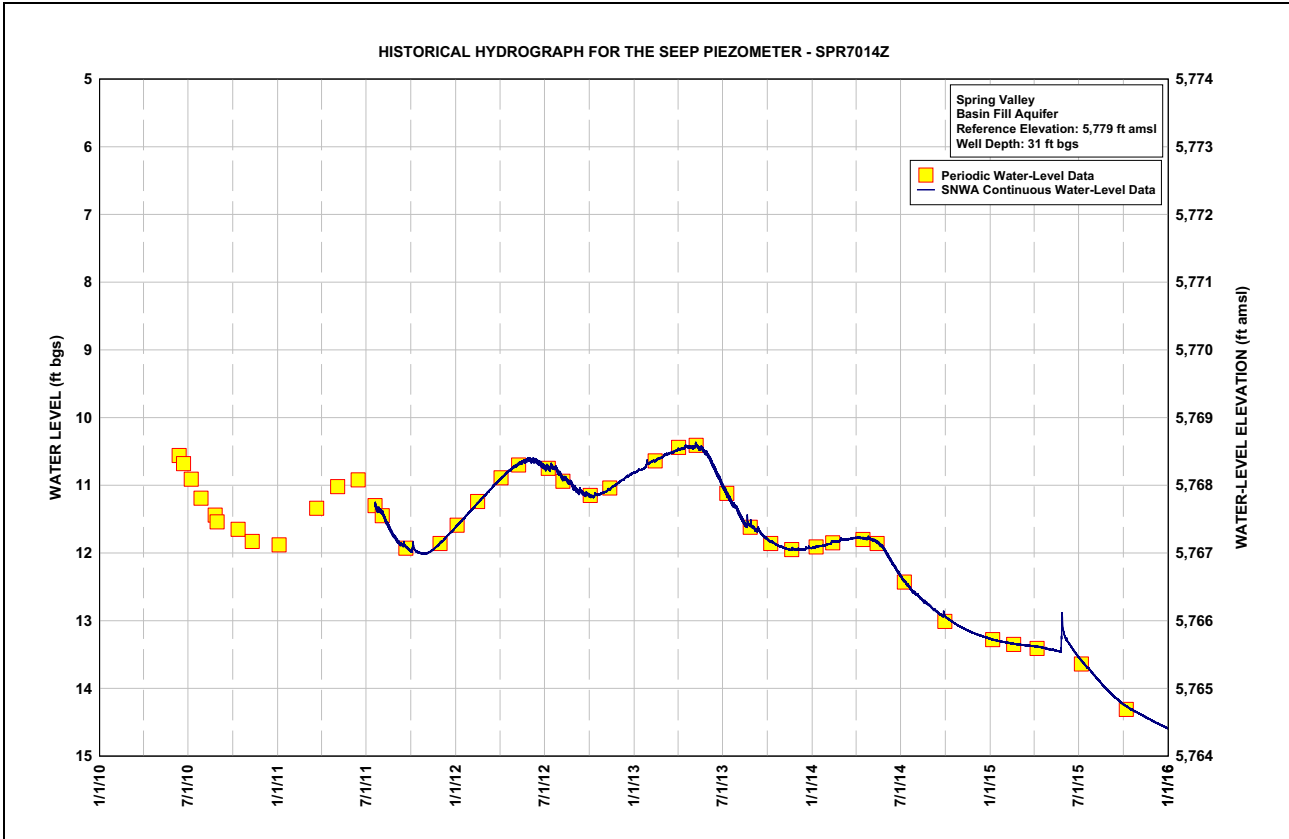
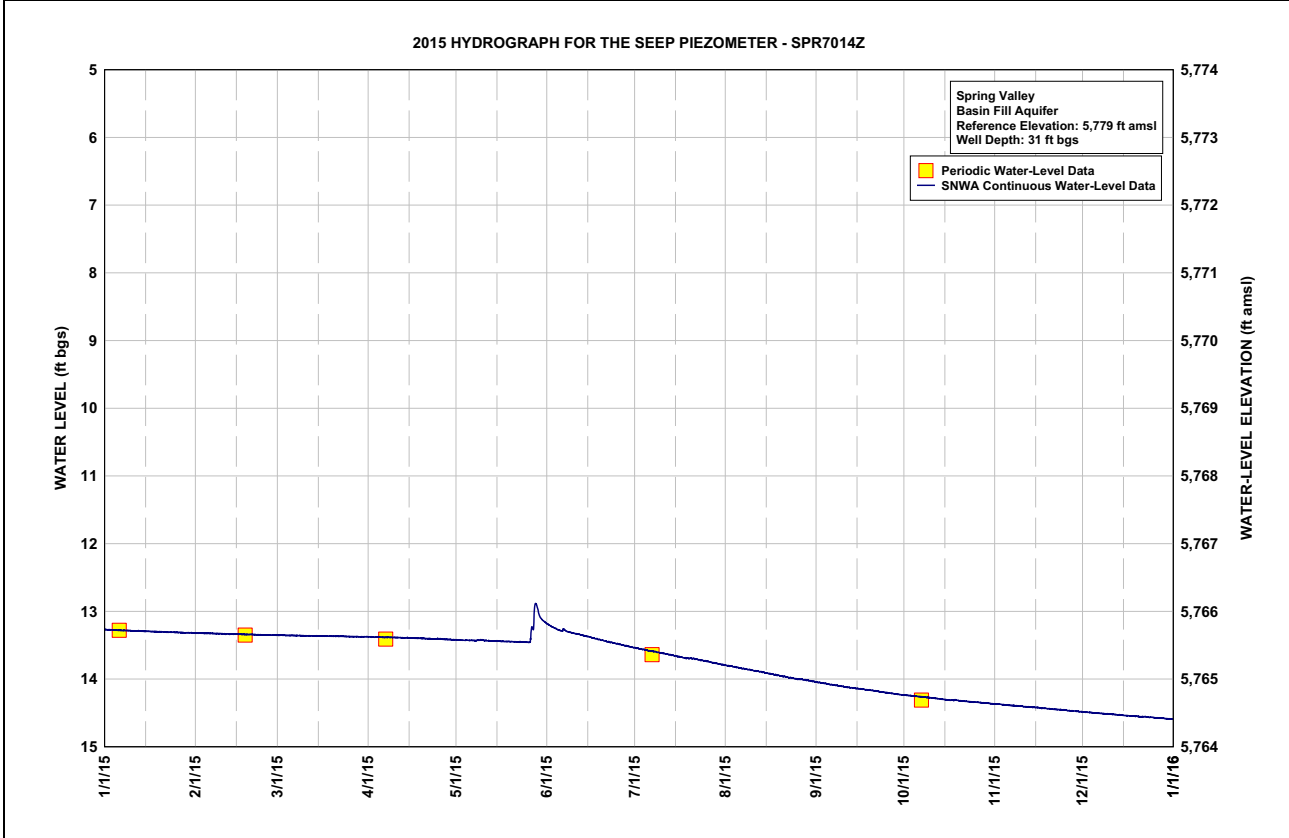


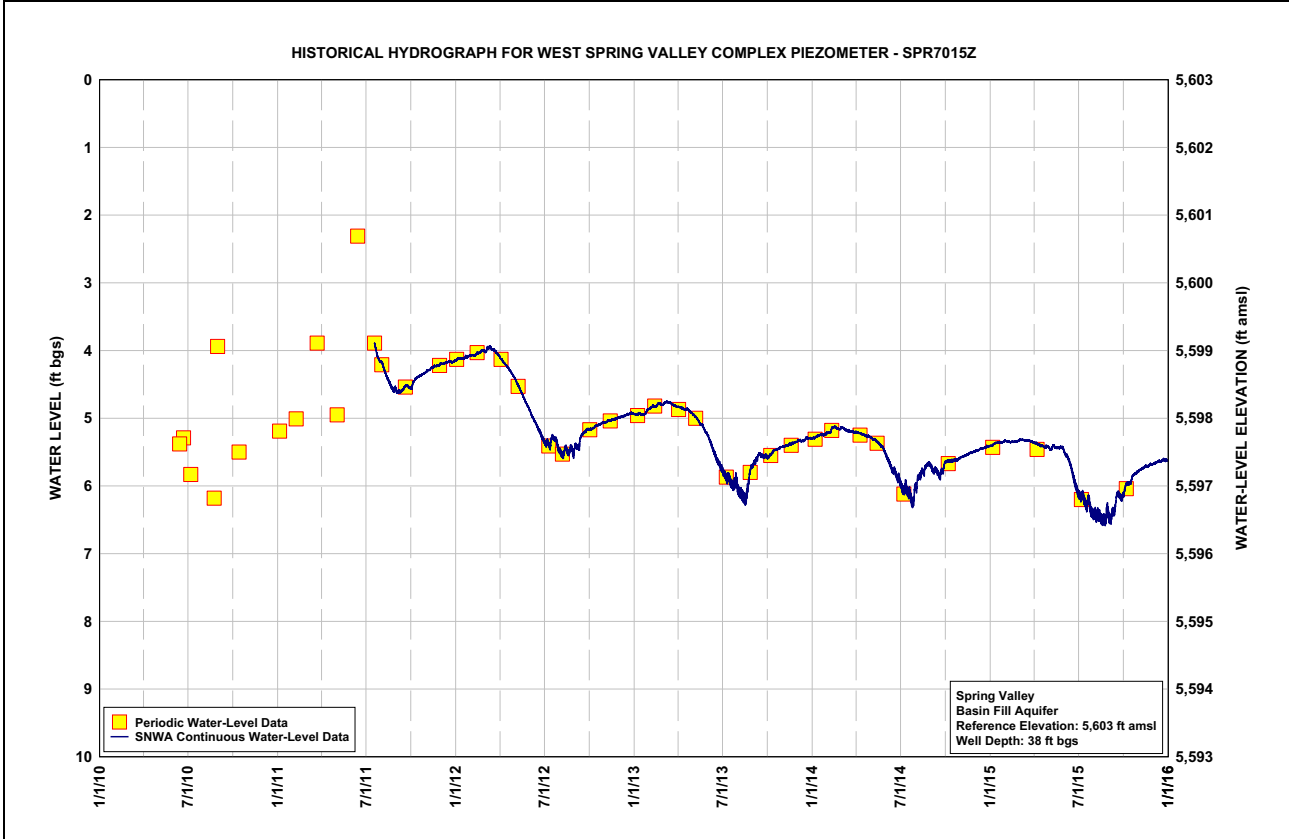
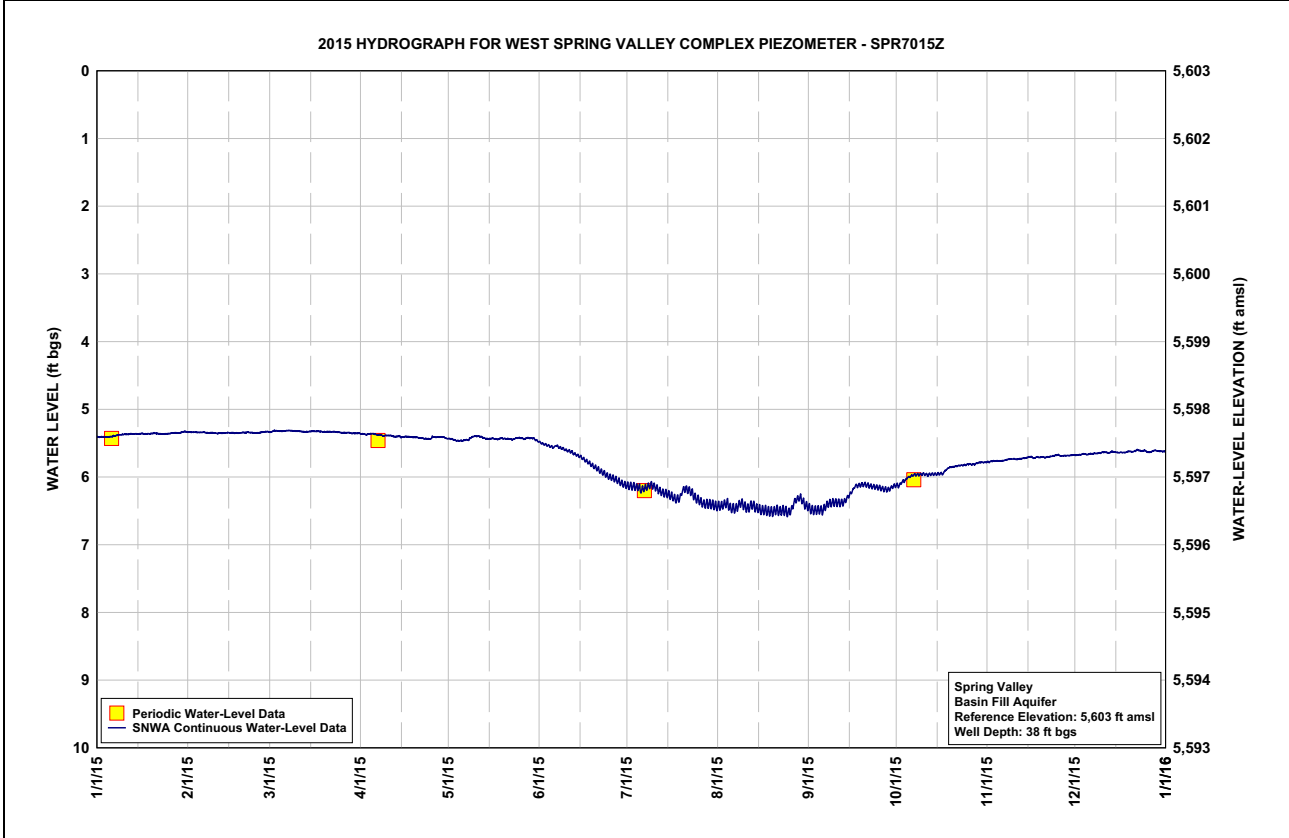


Table C-9
West Spring Valley Complex Piezometer SPR7015Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5.41	5.34	5.33	5.36	5.43	5.49	6.13	6.44	6.46	6.13	5.78	5.68
2	5.41	5.34	5.32	5.37	5.44	5.51	6.13	6.43	6.49	6.10	5.77	5.67
3	5.41	5.34	5.32	5.37	5.46	5.53	6.14	6.40	6.49	6.06	5.76	5.66
4	5.41	5.34	5.32	5.36	5.46	5.54	6.15	6.40	6.49	6.02	5.76	5.66
5	5.40	5.34	5.32	5.36	5.46	5.56	6.17	6.46	6.49	6.00	5.76	5.67
6	5.40	5.34	5.32	5.38	5.46	5.54	6.18	6.47	6.46	5.98	5.76	5.66
7	5.39	5.35	5.31	5.38	5.45	5.54	6.17	6.46	6.41	5.97	5.75	5.65
8	5.38	5.35	5.32	5.39	5.43	5.57	6.13	6.41	6.38	5.96	5.74	5.65
9	5.37	5.35	5.32	5.39	5.40	5.59	6.11	6.39	6.37	5.96	5.73	5.64
10	5.37	5.35	5.32	5.39	5.40	5.61	6.14	6.43	6.38	5.95	5.73	5.64
11	5.37	5.35	5.33	5.39	5.40	5.61	6.17	6.46	6.38	5.96	5.74	5.63
12	5.36	5.35	5.33	5.40	5.41	5.64	6.21	6.42	6.38	5.96	5.73	5.64
13	5.36	5.35	5.33	5.40	5.42	5.66	6.23	6.42	6.36	5.96	5.72	5.63
14	5.36	5.35	5.33	5.40	5.44	5.69	6.25	6.46	6.29	5.96	5.72	5.63
15	5.36	5.35	5.32	5.41	5.43	5.71	6.26	6.48	6.24	5.95	5.70	5.64
16	5.36	5.35	5.33	5.40	5.43	5.74	6.29	6.49	6.17	5.95	5.71	5.64
17	5.36	5.35	5.33	5.40	5.44	5.77	6.32	6.49	6.13	5.92	5.71	5.64
18	5.36	5.35	5.33	5.41	5.43	5.81	6.33	6.51	6.12	5.87	5.71	5.63
19	5.36	5.35	5.33	5.41	5.43	5.84	6.27	6.52	6.11	5.86	5.71	5.62
20	5.35	5.34	5.33	5.42	5.43	5.86	6.19	6.50	6.11	5.85	5.71	5.63
21	5.36	5.34	5.33	5.42	5.44	5.90	6.18	6.49	6.12	5.84	5.70	5.62
22	5.36	5.34	5.33	5.43	5.44	5.92	6.20	6.51	6.13	5.83	5.70	5.60
23	5.36	5.35	5.33	5.43	5.44	5.95	6.23	6.50	6.14	5.83	5.69	5.62
24	5.36	5.35	5.34	5.44	5.42	5.99	6.30	6.51	6.15	5.82	5.68	5.61
25	5.36	5.35	5.35	5.42	5.42	6.01	6.34	6.52	6.16	5.81	5.68	5.62
26	5.35	5.34	5.35	5.41	5.43	6.02	6.38	6.45	6.17	5.81	5.69	5.63
27	5.35	5.33	5.34	5.41	5.43	6.04	6.40	6.36	6.18	5.81	5.68	5.62
28	5.35	5.33	5.35	5.41	5.42	6.07	6.40	6.33	6.18	5.80	5.68	5.61
29	5.35	---	5.36	5.41	5.43	6.10	6.40	6.31	6.15	5.78	5.68	5.62
30	5.33	---	5.36	5.43	5.44	6.12	6.42	6.37	6.13	5.78	5.68	5.62
31	5.33	---	5.35	---	5.47	---	6.43	6.42	---	5.78	---	5.62
Max	5.41	5.35	5.36	5.44	5.47	6.12	6.43	6.52	6.49	6.13	5.78	5.68
Min	5.33	5.33	5.31	5.36	5.40	5.49	6.11	6.31	6.11	5.78	5.68	5.60

Year 2015 Statistics: Year Max 6.52; Year Min 5.31

Note: Water level in ft bgs.





**Table C-10
 Unnamed Spring Five Piezometer SPR7016Z, Calendar Year 2015
 Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.30	2.36	2.28	2.21	2.23	2.31	2.65	2.83	3.00	--- ^a	--- ^a	--- ^a
2	2.28	2.36	2.27	2.21	2.24	2.32	2.65	2.82	3.01	--- ^a	--- ^a	--- ^a
3	2.28	2.36	2.27	2.20	2.25	2.32	2.65	2.83	3.01	--- ^a	--- ^a	--- ^a
4	2.31	2.35	2.27	2.20	2.24	2.33	2.66	2.84	3.01	--- ^a	--- ^a	--- ^a
5	2.36	2.35	2.27	2.20	2.24	2.34	2.68	2.86	3.03	--- ^a	--- ^a	--- ^a
6	2.37	2.35	2.27	2.20	2.24	2.33	2.67	2.86	3.02	--- ^a	--- ^a	--- ^a
7	2.38	2.35	2.26	2.20	2.24	2.34	2.66	2.85	3.03	--- ^a	--- ^a	--- ^a
8	2.39	2.34	2.26	2.20	2.22	2.36	2.66	2.86	3.03	--- ^a	--- ^a	--- ^a
9	2.39	2.34	2.26	2.19	2.22	2.37	2.66	2.87	3.04	--- ^a	--- ^a	--- ^a
10	2.39	2.34	2.26	2.19	2.23	2.38	2.68	2.89	3.05	--- ^a	--- ^a	--- ^a
11	2.39	2.33	2.25	2.19	2.24	2.38	2.69	2.88	3.06	--- ^a	--- ^a	--- ^a
12	2.39	2.33	2.26	2.19	2.24	2.40	2.71	2.87	3.06	--- ^a	--- ^a	--- ^a
13	2.39	2.33	2.25	2.19	2.25	2.42	2.71	2.89	3.06	--- ^a	--- ^a	--- ^a
14	2.39	2.32	2.25	2.19	2.25	2.43	2.72	2.89	3.06	--- ^a	--- ^a	--- ^a
15	2.39	2.32	2.25	2.19	2.25	2.45	2.73	2.91	3.03	--- ^a	--- ^a	--- ^a
16	2.39	2.32	2.24	2.20	2.25	2.47	2.74	2.91	3.02	--- ^a	--- ^a	--- ^a
17	2.39	2.32	2.24	2.20	2.26	2.49	2.75	2.92	3.03	--- ^a	--- ^a	--- ^a
18	2.39	2.32	2.24	2.20	2.25	2.51	2.75	2.93	3.04	--- ^a	--- ^a	--- ^a
19	2.39	2.31	2.24	2.20	2.26	2.53	2.73	2.93	3.05	--- ^a	--- ^a	--- ^a
20	2.39	2.31	2.23	2.20	2.26	2.54	2.73	2.93	3.06	--- ^a	--- ^a	--- ^a
21	2.39	2.31	2.23	2.21	2.26	2.56	2.73	2.95	3.07	--- ^a	--- ^a	--- ^a
22	2.38	2.31	2.23	2.21	2.26	2.57	2.74	2.95	3.08	--- ^a	--- ^a	--- ^a
23	2.38	2.30	2.23	2.21	2.26	2.58	2.76	2.96	3.09	--- ^a	--- ^a	--- ^a
24	2.38	2.30	2.22	2.21	2.26	2.59	2.77	2.96	3.09	--- ^a	--- ^a	--- ^a
25	2.38	2.30	2.22	2.20	2.26	2.60	2.78	2.96	3.10	--- ^a	--- ^a	--- ^a
26	2.38	2.29	2.22	2.21	2.26	2.62	2.80	2.95	3.11	--- ^a	--- ^a	--- ^a
27	2.38	2.29	2.21	2.22	2.26	2.62	2.81	2.95	3.11	--- ^a	--- ^a	--- ^a
28	2.37	2.29	2.21	2.21	2.26	2.63	2.81	2.96	3.11	--- ^a	--- ^a	--- ^a
29	2.37	---	2.21	2.23	2.27	2.63	2.82	2.98	3.11	--- ^a	--- ^a	--- ^a
30	2.36	---	2.21	2.23	2.28	2.64	2.82	2.99	3.11	--- ^a	--- ^a	--- ^a
31	2.36	---	2.21	---	2.29	---	2.83	3.00	---	--- ^a	--- ^a	--- ^a
Max	2.39	2.36	2.28	2.23	2.29	2.64	2.83	3.00	3.11	--- ^a	--- ^a	--- ^a
Min	2.28	2.29	2.21	2.19	2.22	2.31	2.65	2.82	3.00	--- ^a	--- ^a	--- ^a

Year 2015 Statistics: Year Max ---; Year Min ---

Note: Water level in ft bgs.

^aSite inaccessible. Data currently unavailable.

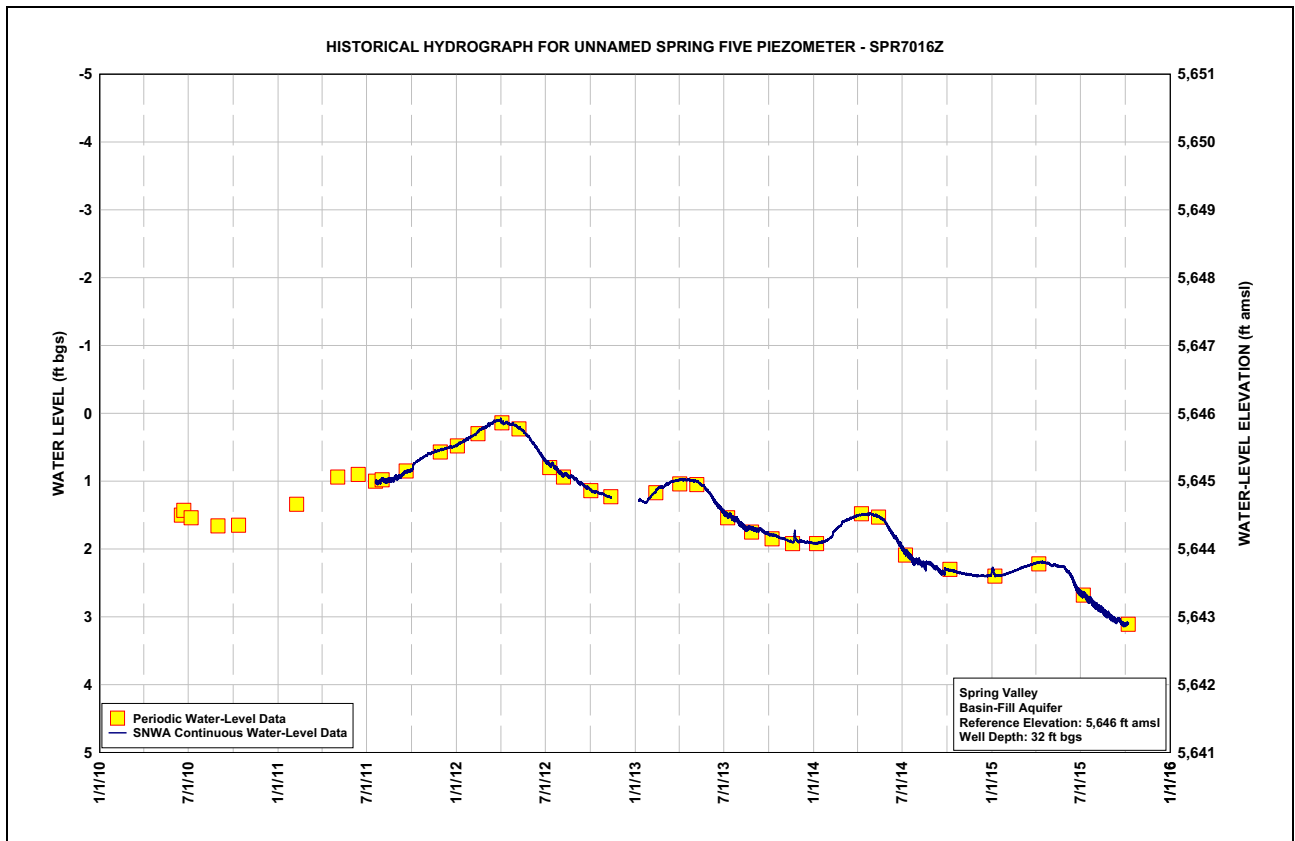
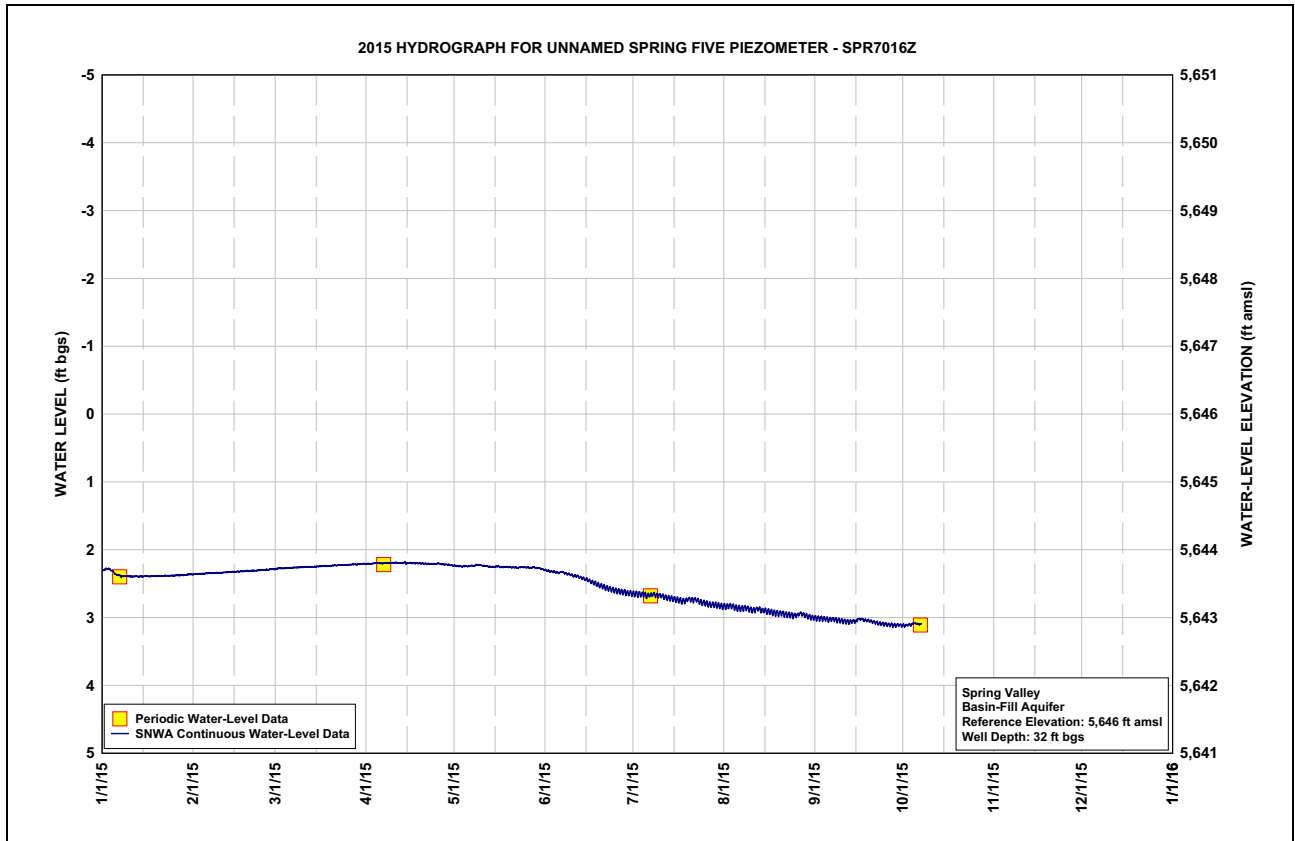


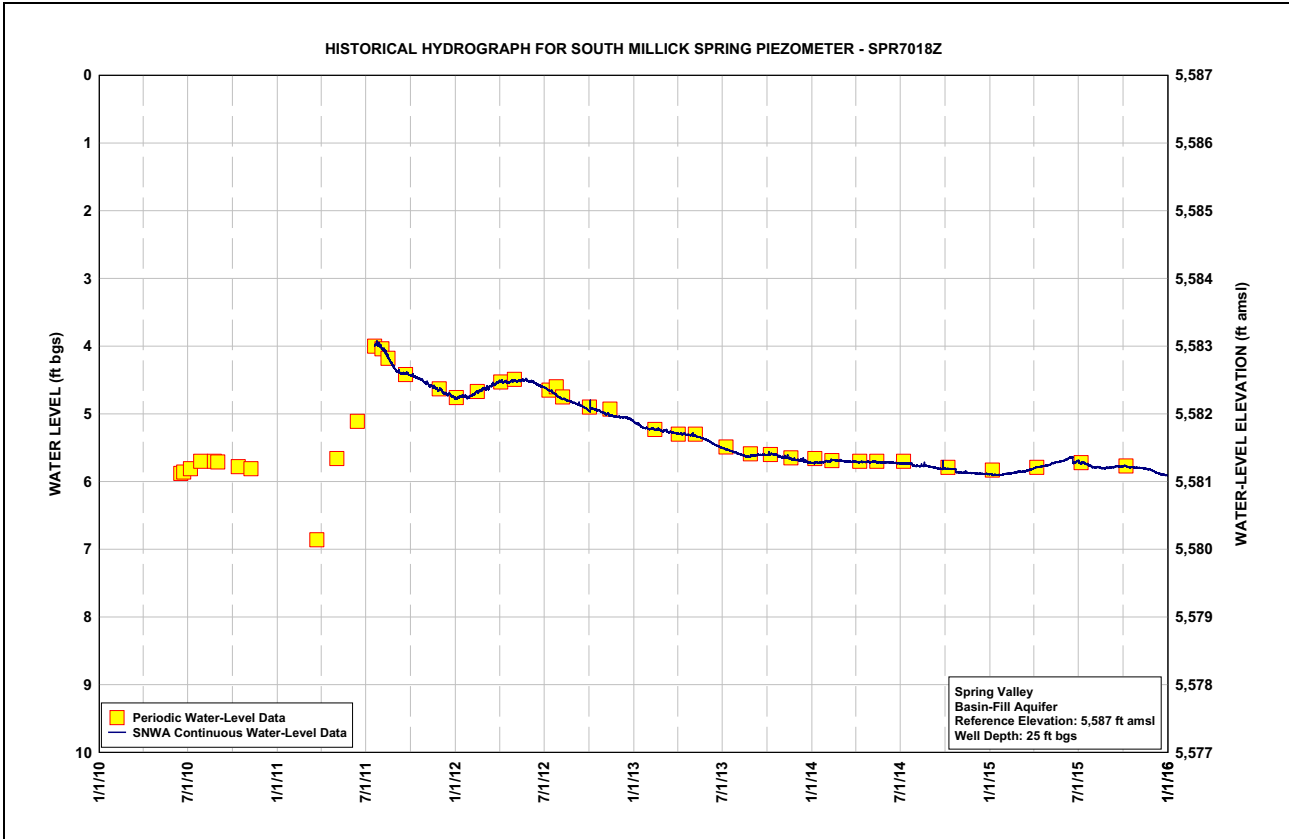
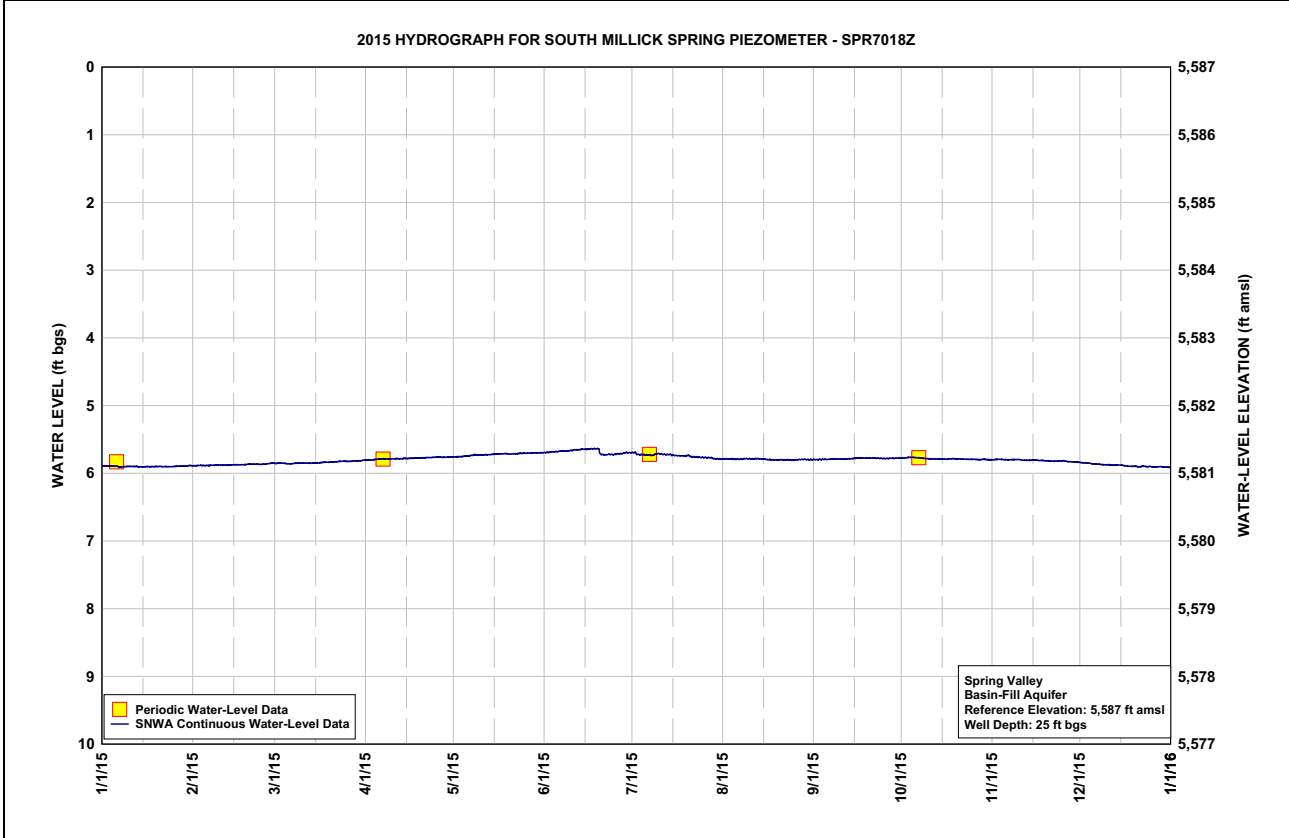


Table C-11
South Millick Spring Piezometer SPR7018Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5.89	5.89	5.85	5.80	5.77	5.72	5.69	5.79	5.80	5.77	5.80	5.84
2	5.89	5.89	5.85	5.80	5.77	5.72	5.71	5.79	5.80	5.77	5.80	5.84
3	5.89	5.88	5.85	5.80	5.77	5.71	5.72	5.79	5.80	5.77	5.79	5.85
4	5.89	5.88	5.85	5.80	5.76	5.71	5.72	5.79	5.79	5.76	5.80	5.85
5	5.90	5.89	5.86	5.79	5.76	5.71	5.73	5.79	5.79	5.77	5.80	5.86
6	5.90	5.89	5.86	5.79	5.75	5.70	5.73	5.79	5.79	5.77	5.80	5.86
7	5.91	5.88	5.86	5.79	5.75	5.70	5.73	5.79	5.79	5.77	5.80	5.87
8	5.90	5.88	5.85	5.79	5.74	5.70	5.73	5.78	5.79	5.78	5.80	5.87
9	5.90	5.88	5.85	5.79	5.74	5.69	5.71	5.78	5.79	5.78	5.80	5.87
10	5.90	5.88	5.85	5.79	5.74	5.69	5.71	5.79	5.79	5.79	5.80	5.87
11	5.90	5.88	5.85	5.78	5.74	5.68	5.72	5.79	5.79	5.79	5.81	5.88
12	5.90	5.88	5.85	5.79	5.74	5.68	5.72	5.78	5.79	5.79	5.81	5.88
13	5.90	5.88	5.85	5.79	5.74	5.68	5.72	5.79	5.79	5.79	5.81	5.88
14	5.90	5.88	5.85	5.78	5.74	5.68	5.73	5.79	5.78	5.79	5.81	5.88
15	5.90	5.87	5.85	5.78	5.73	5.68	5.74	5.79	5.78	5.79	5.80	5.88
16	5.90	5.87	5.84	5.78	5.73	5.67	5.74	5.80	5.77	5.79	5.81	5.89
17	5.90	5.87	5.84	5.78	5.73	5.67	5.74	5.80	5.77	5.79	5.81	5.90
18	5.90	5.87	5.84	5.78	5.73	5.67	5.74	5.80	5.77	5.78	5.81	5.90
19	5.90	5.87	5.84	5.78	5.73	5.67	5.74	5.80	5.77	5.78	5.81	5.90
20	5.90	5.87	5.84	5.78	5.74	5.75	5.74	5.80	5.78	5.79	5.82	5.90
21	5.90	5.87	5.83	5.77	5.73	5.76	5.75	5.80	5.78	5.79	5.82	5.90
22	5.90	5.86	5.83	5.77	5.73	5.76	5.76	5.80	5.78	5.79	5.82	5.90
23	5.90	5.87	5.82	5.77	5.73	5.75	5.76	5.80	5.78	5.79	5.82	5.90
24	5.90	5.87	5.82	5.77	5.73	5.76	5.77	5.80	5.78	5.80	5.82	5.90
25	5.90	5.86	5.82	5.77	5.73	5.75	5.77	5.80	5.78	5.80	5.82	5.90
26	5.90	5.86	5.83	5.77	5.73	5.75	5.77	5.80	5.78	5.80	5.82	5.91
27	5.90	5.85	5.82	5.77	5.72	5.75	5.77	5.80	5.78	5.80	5.83	5.91
28	5.90	5.85	5.82	5.77	5.72	5.74	5.77	5.79	5.78	5.80	5.83	5.90
29	5.89	---	5.82	5.77	5.72	5.73	5.79	5.80	5.78	5.80	5.83	5.91
30	5.89	---	5.81	5.77	5.72	5.74	5.79	5.80	5.78	5.80	5.84	5.91
31	5.89	---	5.81	---	5.72	---	5.79	5.80	---	5.80	---	5.91
Max	5.91	5.89	5.86	5.80	5.77	5.76	5.79	5.80	5.80	5.80	5.84	5.91
Min	5.89	5.85	5.81	5.77	5.72	5.67	5.69	5.78	5.77	5.76	5.79	5.84

Year 2015 Statistics: Year Max 5.91; Year Min 5.67

Note: Water level in ft bgs.





**Table C-12
Layton Spring Piezometer SPR7019Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9.34	9.29	9.19	9.12	9.07	9.03	9.28	9.57	9.81	9.93	9.89	9.81
2	9.33	9.29	9.18	9.12	9.07	9.03	9.29	9.56	9.81	9.93	9.88	9.81
3	9.34	9.28	9.19	9.11	9.07	9.04	9.29	9.57	9.82	9.92	9.88	9.80
4	9.34	9.28	9.19	9.11	9.07	9.05	9.30	9.58	9.82	9.91	9.88	9.80
5	9.33	9.27	9.19	9.10	9.07	9.05	9.32	9.59	9.83	9.91	9.88	9.79
6	9.33	9.27	9.18	9.10	9.06	9.03	9.32	9.60	9.83	9.91	9.88	9.79
7	9.32	9.26	9.17	9.10	9.05	9.04	9.33	9.59	9.84	9.91	9.89	9.78
8	9.32	9.26	9.17	9.10	9.04	9.05	9.33	9.59	9.84	9.91	9.88	9.78
9	9.32	9.26	9.18	9.10	9.03	9.06	9.32	9.60	9.85	9.91	9.88	9.77
10	9.32	9.26	9.18	9.09	9.03	9.07	9.34	9.61	9.86	9.92	9.87	9.77
11	9.32	9.26	9.17	9.09	9.02	9.06	9.35	9.62	9.87	9.93	9.87	9.76
12	9.32	9.26	9.17	9.10	9.03	9.06	9.36	9.61	9.87	9.93	9.86	9.76
13	9.32	9.26	9.17	9.09	9.03	9.06	9.38	9.64	9.86	9.94	9.86	9.76
14	9.31	9.25	9.16	9.09	9.03	9.07	9.38	9.66	9.86	9.94	9.85	9.76
15	9.31	9.25	9.16	9.09	9.02	9.09	9.40	9.68	9.85	9.95	9.85	9.76
16	9.30	9.25	9.16	9.09	9.01	9.12	9.41	9.69	9.83	9.95	9.85	9.75
17	9.31	9.24	9.15	9.09	9.01	9.13	9.42	9.70	9.84	9.94	9.85	9.75
18	9.31	9.24	9.15	9.08	9.01	9.13	9.44	9.71	9.85	9.93	9.85	9.74
19	9.31	9.23	9.15	9.08	9.01	9.14	9.43	9.72	9.86	9.92	9.85	9.74
20	9.31	9.23	9.14	9.08	9.01	9.13	9.43	9.72	9.86	9.91	9.85	9.74
21	9.31	9.23	9.14	9.08	9.01	9.14	9.44	9.75	9.88	9.92	9.84	9.73
22	9.31	9.23	9.13	9.08	9.01	9.16	9.45	9.76	9.90	9.91	9.84	9.72
23	9.31	9.21	9.13	9.08	9.01	9.18	9.47	9.77	9.91	9.91	9.84	9.72
24	9.31	9.21	9.13	9.08	9.00	9.19	9.48	9.78	9.92	9.91	9.83	9.71
25	9.30	9.21	9.13	9.07	9.00	9.20	9.50	9.77	9.92	9.91	9.82	9.72
26	9.30	9.20	9.13	9.07	9.00	9.21	9.51	9.76	9.92	9.91	9.83	9.72
27	9.29	9.19	9.12	9.06	8.99	9.22	9.51	9.76	9.92	9.91	9.82	9.72
28	9.30	9.19	9.12	9.06	8.98	9.24	9.53	9.78	9.92	9.90	9.82	9.71
29	9.29	---	9.12	9.07	8.99	9.25	9.56	9.79	9.93	9.90	9.82	9.71
30	9.28	---	9.12	9.07	9.00	9.26	9.57	9.80	9.93	9.89	9.81	9.70
31	9.29	---	9.11	---	9.01	---	9.57	9.81	---	9.89	---	9.70
Max	9.34	9.29	9.19	9.12	9.07	9.26	9.57	9.81	9.93	9.95	9.89	9.81
Min	9.28	9.19	9.11	9.06	8.98	9.03	9.28	9.56	9.81	9.89	9.81	9.70

Year 2015 Statistics: Year Max :9.95 Year Min:8.98

Note: Water level in ft bgs.

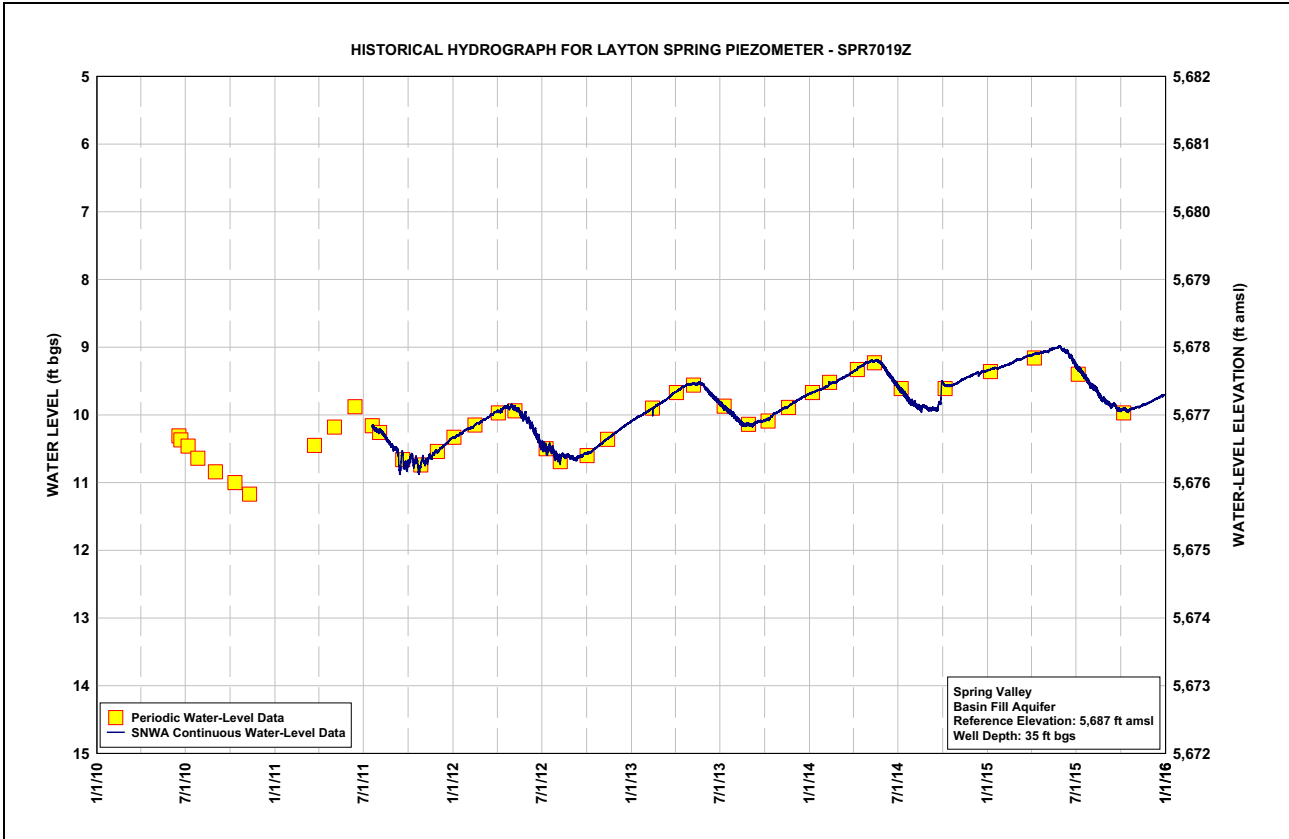
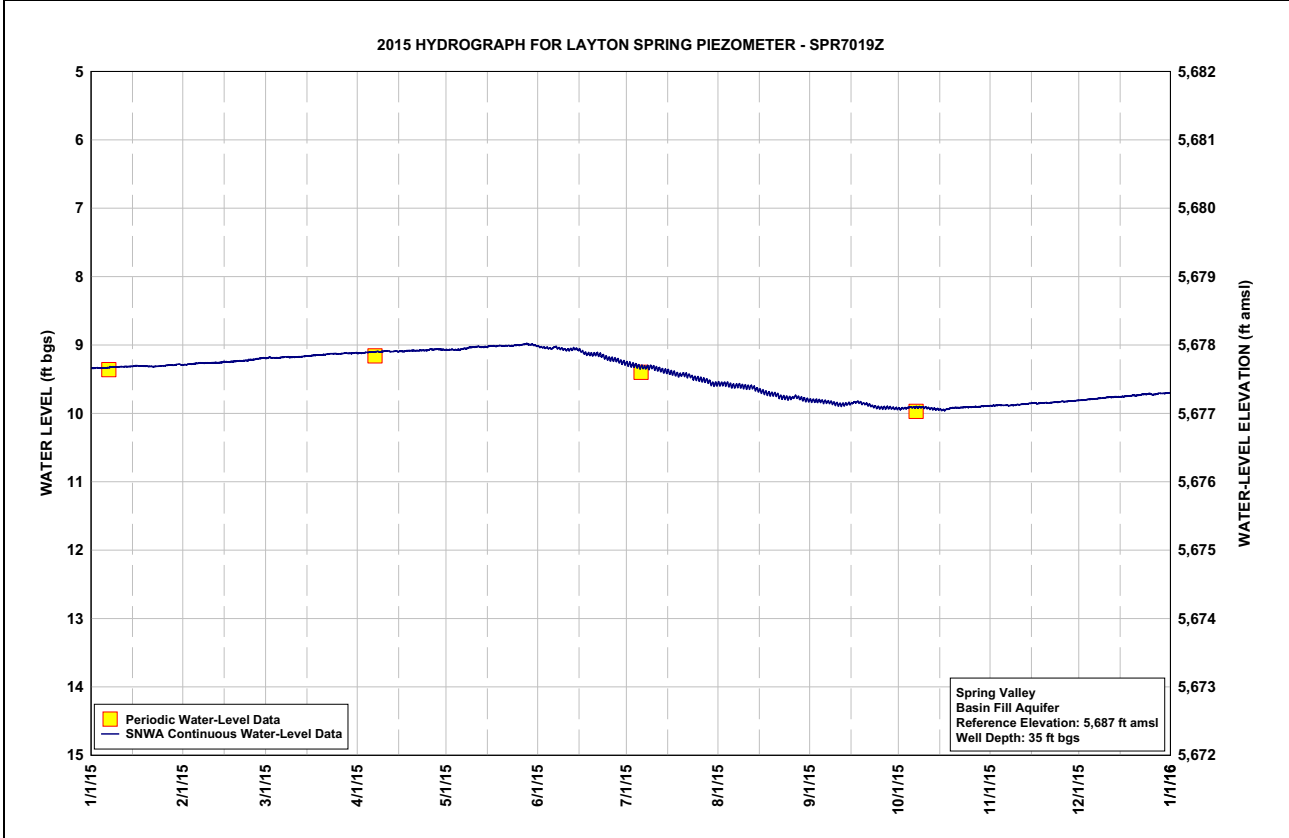




Table C-13
Stonehouse Spring Piezometer SPR7020Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.75	1.46	1.44	1.46	1.55	1.72	2.92	2.79	3.03	2.86	1.91	1.81
2	1.78	1.45	1.38	1.42	1.60	1.75	2.94	2.80	3.03	2.83	1.88	1.83
3	1.82	1.45	1.38	1.43	1.63	1.77	2.92	2.81	3.04	2.81	1.87	1.82
4	1.84	1.47	1.39	1.43	1.59	1.81	2.94	2.81	3.05	2.79	1.85	1.81
5	1.82	1.49	1.39	1.45	1.54	1.89	2.94	2.82	3.06	2.76	1.85	1.82
6	1.75	1.50	1.41	1.45	1.49	1.81	2.92	2.83	3.05	2.71	1.84	1.80
7	1.65	1.52	1.43	1.45	1.43	1.85	2.89	2.84	3.05	2.68	1.83	1.78
8	1.56	1.51	1.44	1.43	1.18	1.88	2.83	2.84	3.06	2.66	1.81	1.74
9	1.46	1.46	1.46	1.43	1.28	1.93	2.76	2.85	3.06	2.64	1.79	1.67
10	1.43	1.49	1.47	1.45	1.40	1.94	2.70	2.87	3.07	2.60	1.77	1.61
11	1.41	1.51	1.45	1.46	1.48	1.76	2.70	2.87	3.08	2.59	1.76	1.58
12	1.34	1.51	1.45	1.48	1.56	1.80	2.71	2.87	3.08	2.56	1.74	1.60
13	1.38	1.50	1.46	1.49	1.58	1.86	2.71	2.87	3.08	2.55	1.70	1.58
14	1.45	1.49	1.46	1.49	1.57	1.94	2.71	2.89	3.08	2.53	1.68	1.59
15	1.49	1.50	1.45	1.47	1.52	2.04	2.75	2.90	3.04	2.51	1.67	1.60
16	1.46	1.51	1.45	1.46	1.55	2.12	2.75	2.90	3.00	2.49	1.69	1.61
17	1.43	1.52	1.45	1.48	1.57	2.19	2.76	2.91	2.97	2.46	1.72	1.61
18	1.38	1.51	1.45	1.50	1.54	2.26	2.74	2.92	2.96	2.41	1.66	1.60
19	1.37	1.48	1.46	1.50	1.50	2.33	2.73	2.93	2.95	2.35	1.67	1.58
20	1.39	1.49	1.47	1.51	1.53	2.38	2.72	2.94	2.94	2.31	1.68	1.57
21	1.45	1.48	1.46	1.51	1.54	2.46	2.71	2.95	2.93	2.26	1.71	1.52
22	1.49	1.48	1.46	1.51	1.50	2.52	2.71	2.97	2.94	2.22	1.71	1.48
23	1.48	1.52	1.45	1.52	1.28	2.58	2.72	2.97	2.94	2.18	1.71	1.46
24	1.47	1.52	1.46	1.47	1.32	2.66	2.73	2.99	2.93	2.15	1.69	1.43
25	1.46	1.50	1.46	1.39	1.31	2.72	2.73	3.00	2.93	2.12	1.70	1.44
26	1.45	1.46	1.46	1.44	1.34	2.79	2.73	2.99	2.91	2.09	1.72	1.46
27	1.45	1.43	1.46	1.49	1.22	2.83	2.74	2.98	2.91	2.07	1.71	1.47
28	1.42	1.42	1.47	1.52	1.36	2.88	2.75	2.99	2.90	2.03	1.74	1.49
29	1.44	---	1.48	1.55	1.48	2.92	2.75	3.00	2.89	1.98	1.75	1.52
30	1.35	---	1.47	1.55	1.56	2.91	2.77	3.01	2.87	1.96	1.78	1.54
31	1.39	---	1.46	---	1.65	---	2.78	3.01	---	1.94	---	1.56
Max	1.84	1.52	1.48	1.55	1.65	2.92	2.94	3.01	3.08	2.86	1.91	1.83
Min	1.34	1.42	1.38	1.39	1.18	1.72	2.70	2.79	2.87	1.94	1.66	1.43

Year 2015 Statistics: Year Max 3.08; Year Min 1.18

Note: Water level in ft bgs.

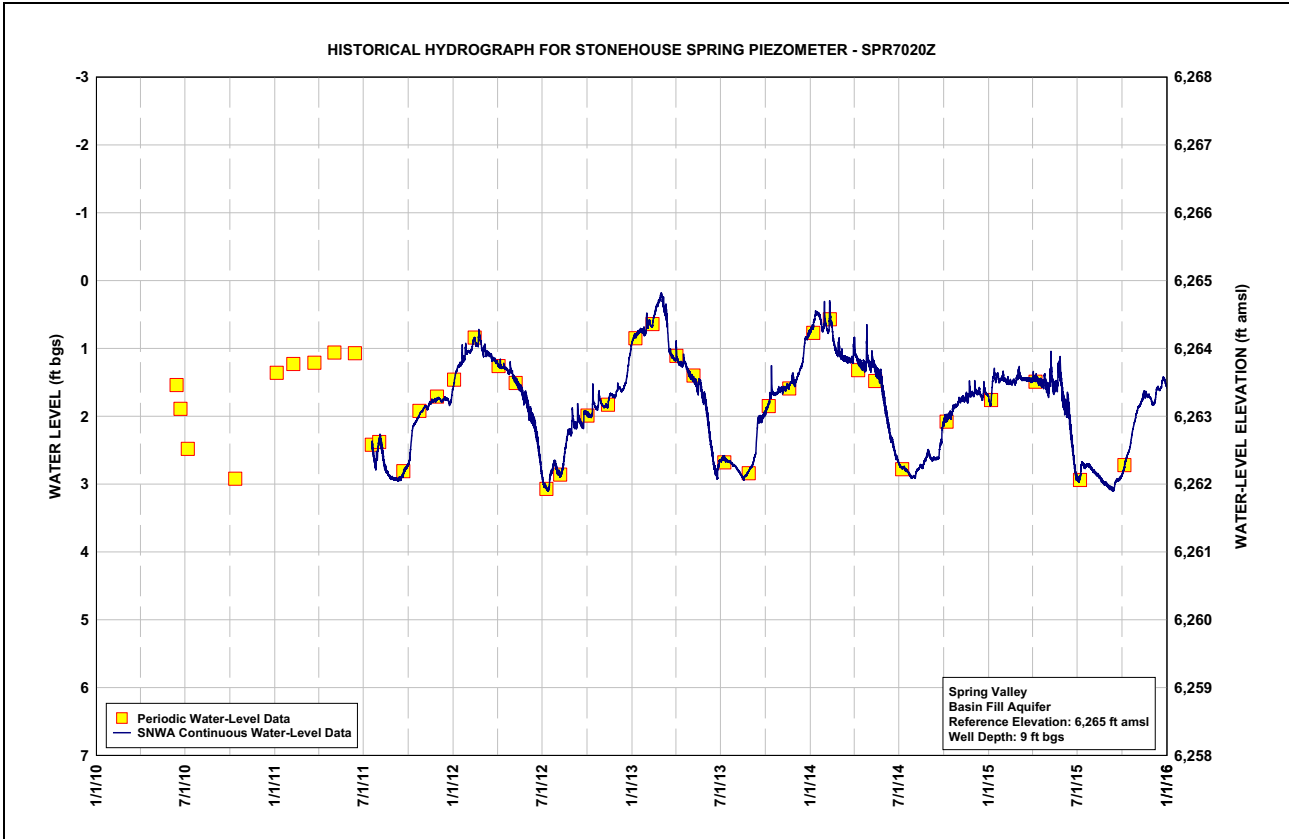
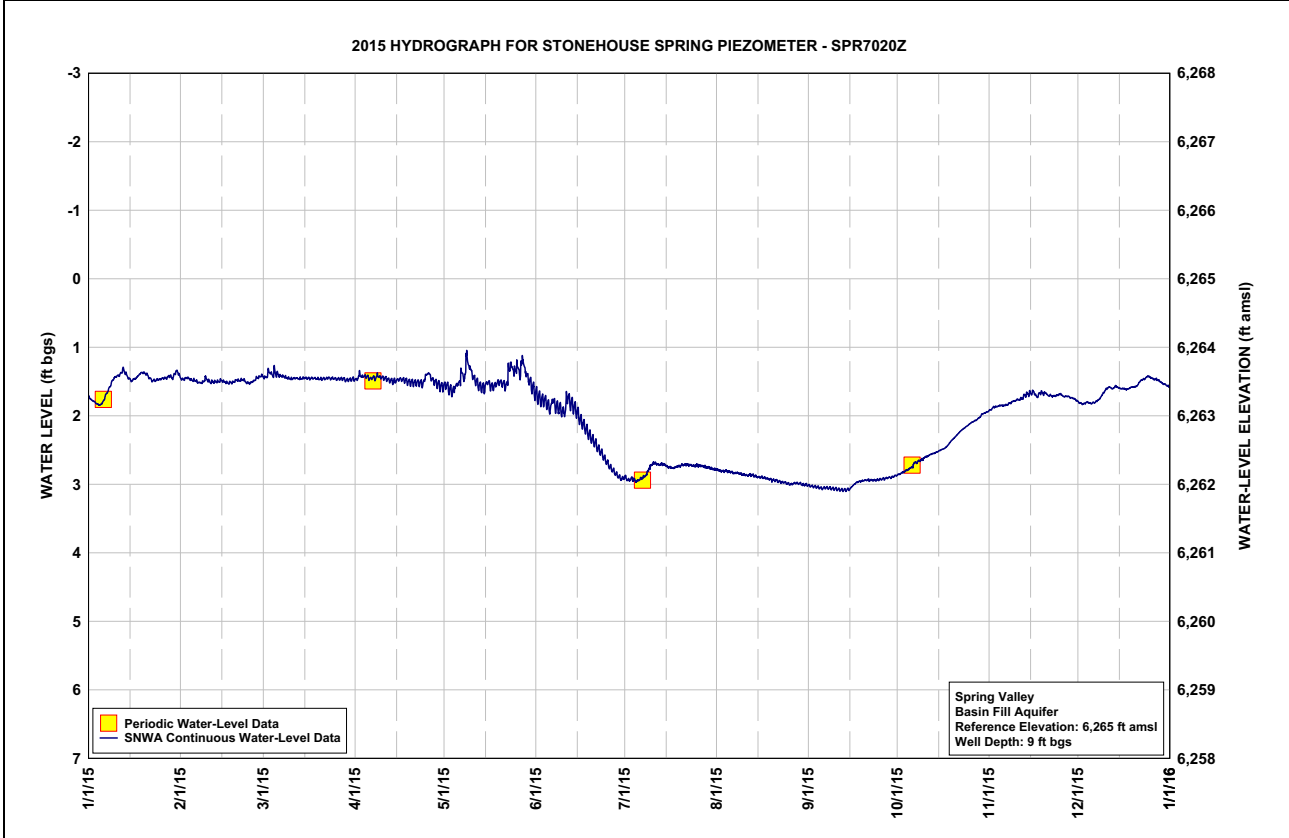




Table C-14
Keegan Spring Piezometer SPR7021Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	-1.83	-1.75	-1.94	-1.78	-1.50	-1.02	-0.74	-0.46	-1.05	-1.12	-1.26	-1.08
2	-1.81	-1.76	-1.99	-1.90	-1.43	-1.05	-0.70	-0.47	-1.05	-1.14	-1.27	-1.06
3	-1.79	-1.78	-2.00	-2.04	-1.34	-1.08	-0.67	-0.48	-1.09	-1.16	-1.27	-1.06
4	-1.78	-1.79	-1.90	-2.06	-1.30	-1.13	-0.65	-0.46	-1.10	-1.19	-1.28	-1.08
5	-1.80	-1.79	-1.86	-2.02	-1.33	-1.17	-0.59	-0.45	-1.12	-1.20	-1.26	-1.06
6	-1.80	-1.74	-1.84	-2.06	-1.42	-1.34	-0.57	-0.47	-1.16	-1.22	-1.25	-1.05
7	-1.79	-1.72	-1.82	-2.05	-1.40	-1.33	-0.57	-0.51	-1.19	-1.19	-1.25	-1.05
8	-1.79	-1.74	-1.81	-2.06	-1.64	-1.32	-0.58	-0.57	-1.20	-1.17	-1.25	-1.06
9	-1.78	-1.75	-1.80	-2.07	-1.63	-1.32	-0.55	-0.56	-1.21	-1.16	-1.26	-1.04
10	-1.78	-1.76	-1.79	-2.05	-1.53	-1.34	-0.53	-0.53	-1.21	-1.14	-1.29	-1.05
11	-1.77	-1.77	-1.81	-2.01	-1.36	-1.39	-0.50	-0.58	-1.20	-1.13	-1.28	-1.07
12	-1.79	-1.78	-1.82	-1.95	-1.19	-1.41	-0.48	-0.68	-1.22	-1.13	-1.27	-1.04
13	-1.77	-1.80	-1.82	-1.94	-1.08	-1.39	-0.48	-0.69	-1.23	-1.12	-1.25	-1.02
14	-1.76	-1.85	-1.82	-1.89	-1.03	-1.40	-0.47	-0.72	-1.26	-1.12	-1.25	-1.03
15	-1.75	-1.87	-1.82	-2.00	-1.11	-1.37	-0.46	-0.76	-1.29	-1.13	-1.24	-1.00
16	-1.75	-1.87	-1.82	-2.03	-1.06	-1.36	-0.45	-0.80	-1.26	-1.13	-1.23	-0.97
17	-1.73	-1.87	-1.82	-1.99	-1.02	-1.36	-0.43	-0.82	-1.10	-1.19	-1.20	-0.97
18	-1.72	-1.85	-1.82	-1.90	-1.05	-1.35	-0.45	-0.85	-1.06	-1.23	-1.19	-0.98
19	-1.72	-1.86	-1.81	-1.80	-1.08	-1.32	-0.50	-0.86	-1.05	-1.24	-1.17	-0.98
20	-1.71	-1.88	-1.82	-1.74	-1.05	-1.31	-0.53	-0.90	-1.04	-1.23	-1.16	-0.98
21	-1.71	-1.89	-1.82	-1.74	-0.98	-1.28	-0.51	-0.90	-1.02	-1.24	-1.14	-0.98
22	-1.69	-1.93	-1.83	-1.72	-0.96	-1.26	-0.52	-0.94	-1.01	-1.25	-1.14	-1.05
23	-1.69	-1.91	-1.87	-1.65	-1.04	-1.24	-0.48	-0.97	-1.01	-1.24	-1.15	-1.05
24	-1.67	-1.87	-1.88	-1.70	-1.34	-1.18	-0.46	-0.97	-1.01	-1.25	-1.15	-1.01
25	-1.67	-1.85	-1.87	-1.95	-1.38	-1.12	-0.44	-1.01	-1.01	-1.27	-1.16	-1.01
26	-1.66	-1.87	-1.89	-1.92	-1.30	-1.05	-0.43	-1.05	-1.01	-1.27	-1.14	-0.96
27	-1.66	-1.89	-1.89	-1.80	-1.30	-0.99	-0.44	-1.07	-1.01	-1.28	-1.14	-0.95
28	-1.67	-1.94	-1.85	-1.70	-1.33	-0.91	-0.44	-1.07	-1.02	-1.28	-1.13	-0.97
29	-1.68	---	-1.82	-1.64	-1.25	-0.85	-0.44	-1.04	-1.04	-1.30	-1.12	-0.97
30	-1.74	---	-1.82	-1.55	-1.13	-0.80	-0.43	-1.02	-1.08	-1.28	-1.10	-0.95
31	-1.74	---	-1.78	---	-1.05	---	-0.44	-1.05	---	-1.27	---	-0.94
Max	-1.66	-1.72	-1.78	-1.55	-0.96	-0.80	-0.43	-0.45	-1.01	-1.12	-1.10	-0.94
Min	-1.83	-1.94	-2.00	-2.07	-1.64	-1.41	-0.74	-1.07	-1.29	-1.30	-1.29	-1.08

Year 2015 Statistics: Year Max -0.43; Year Min -2.07.

Note: Water level in ft bgs.

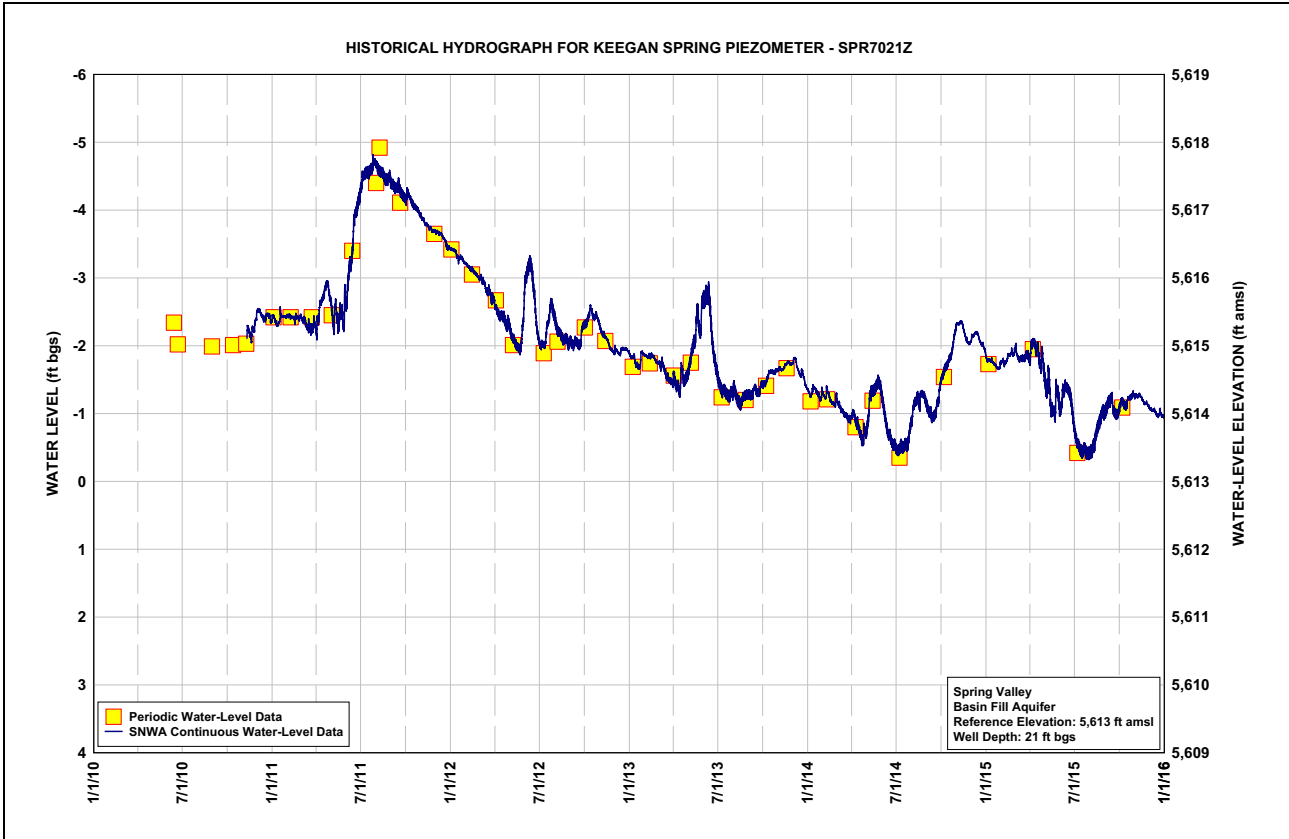
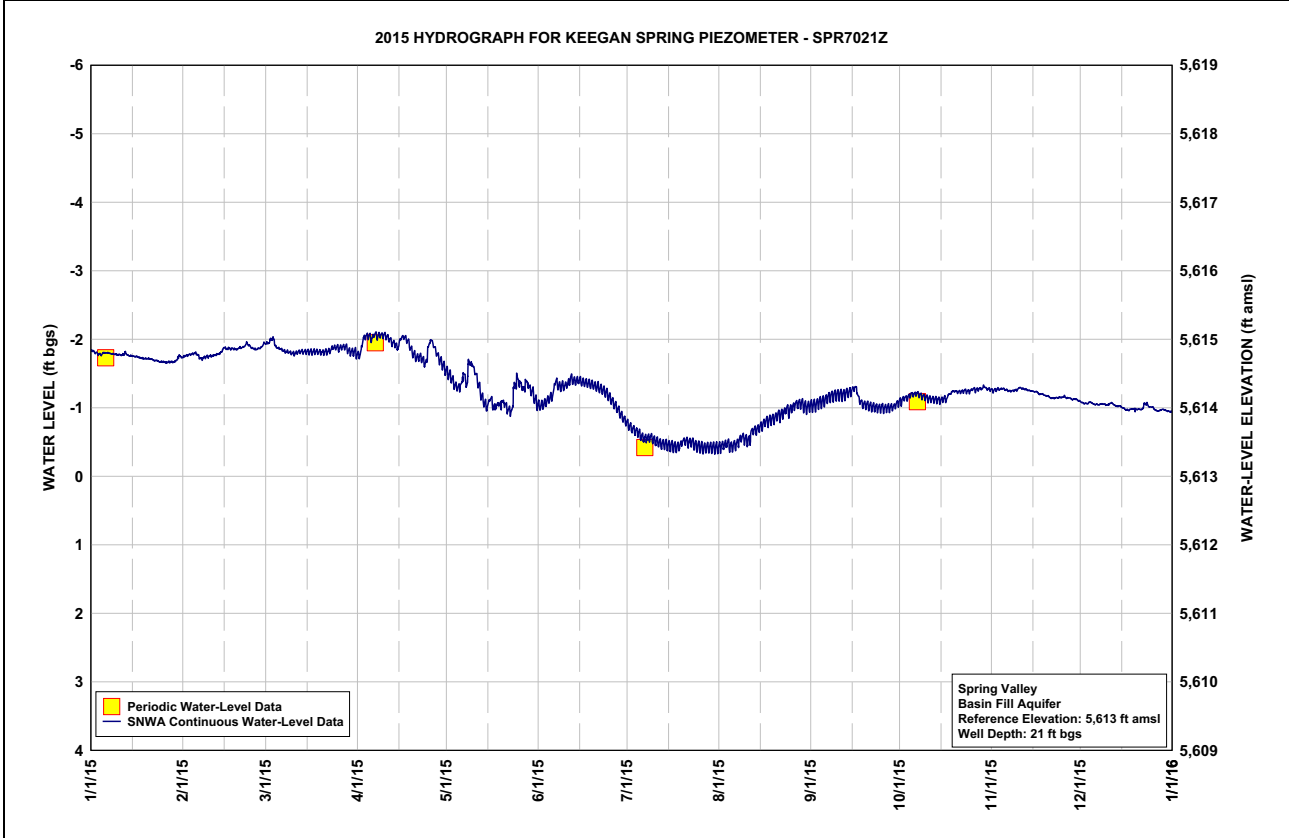


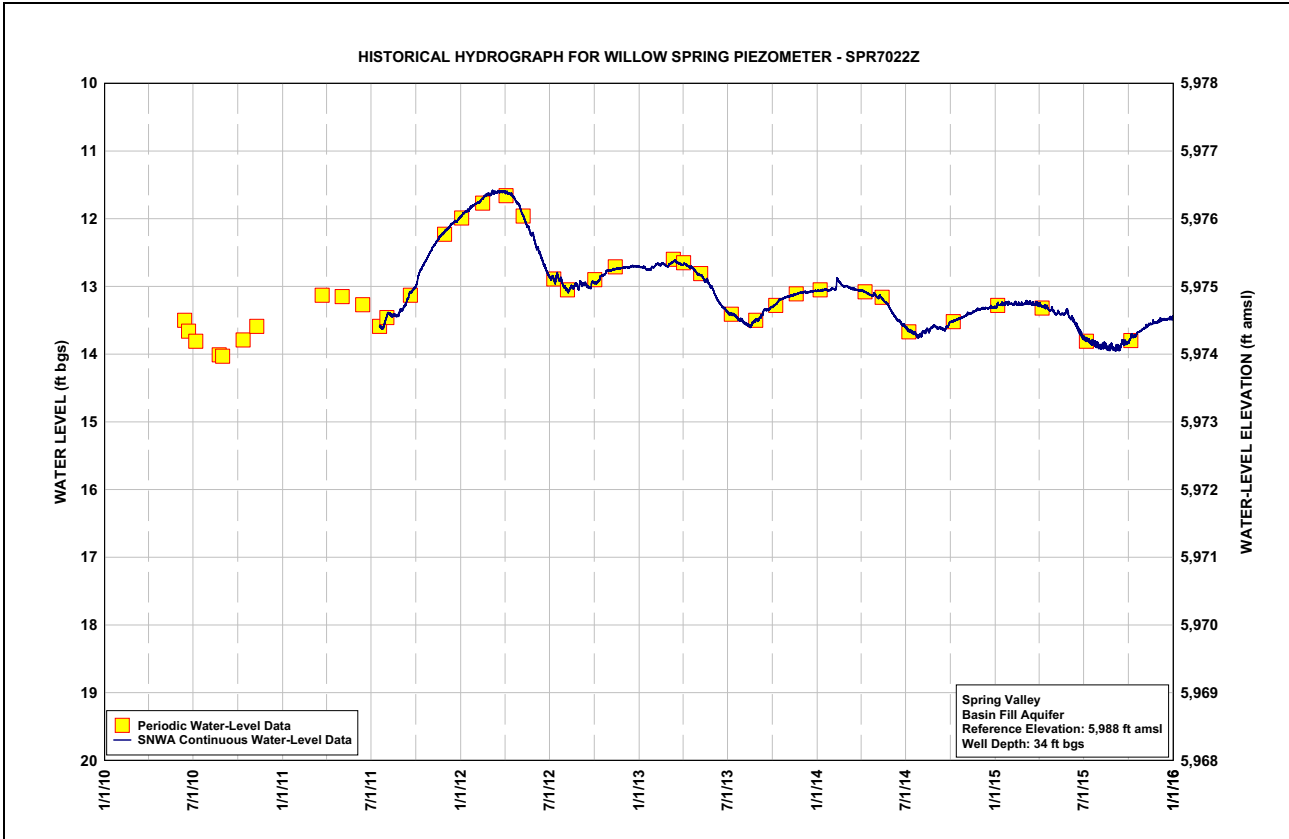
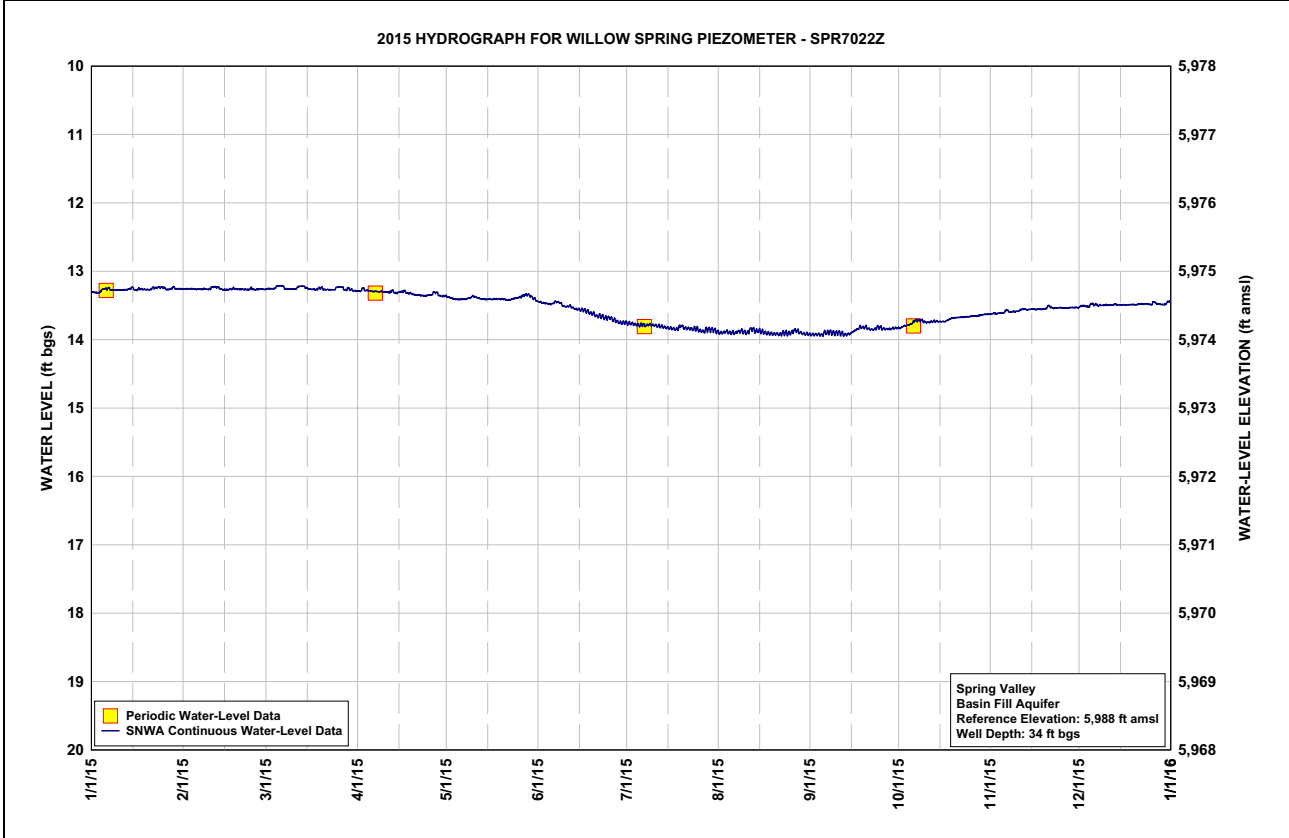


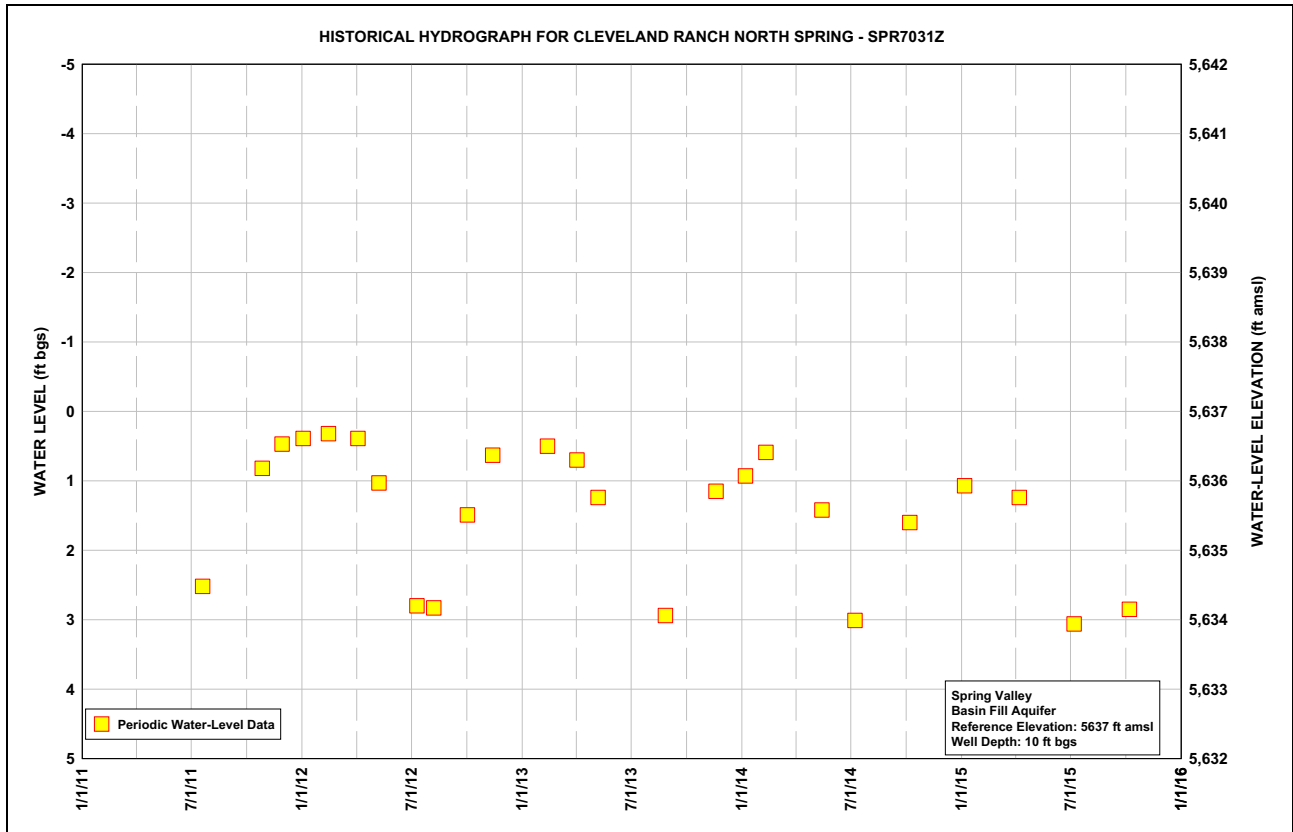
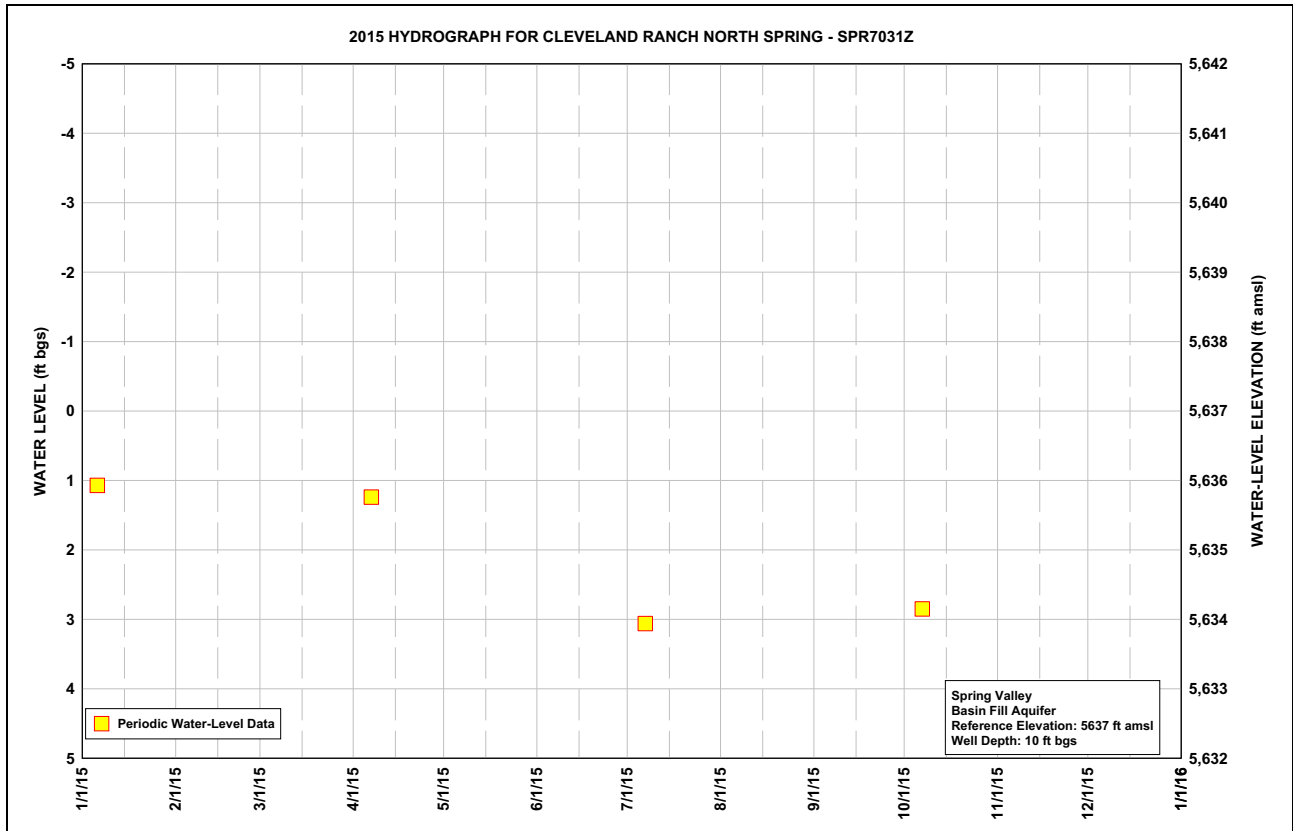
Table C-15
Willow Spring Piezometer SPR7022Z, Calendar Year 2015
Water-Level Data, Daily-Mean Values

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.31	13.26	13.26	13.29	13.38	13.45	13.76	13.90	13.93	13.83	13.62	13.51
2	13.31	13.26	13.25	13.26	13.39	13.46	13.77	13.90	13.92	13.81	13.62	13.50
3	13.32	13.25	13.25	13.28	13.40	13.47	13.77	13.88	13.92	13.79	13.62	13.52
4	13.27	13.26	13.22	13.28	13.41	13.48	13.78	13.89	13.93	13.78	13.61	13.51
5	13.26	13.26	13.21	13.29	13.41	13.48	13.79	13.90	13.92	13.77	13.61	13.47
6	13.25	13.26	13.21	13.30	13.41	13.47	13.78	13.90	13.90	13.72	13.57	13.49
7	13.27	13.26	13.25	13.29	13.41	13.45	13.79	13.88	13.88	13.71	13.59	13.50
8	13.28	13.26	13.26	13.30	13.40	13.46	13.78	13.87	13.89	13.72	13.59	13.50
9	13.27	13.26	13.26	13.30	13.38	13.51	13.79	13.88	13.90	13.73	13.59	13.49
10	13.28	13.24	13.26	13.30	13.37	13.52	13.79	13.90	13.89	13.74	13.58	13.49
11	13.28	13.23	13.25	13.31	13.39	13.51	13.80	13.86	13.90	13.74	13.56	13.49
12	13.27	13.23	13.22	13.28	13.40	13.53	13.81	13.84	13.92	13.74	13.55	13.49
13	13.26	13.26	13.22	13.31	13.41	13.55	13.82	13.87	13.92	13.73	13.56	13.49
14	13.24	13.27	13.24	13.31	13.41	13.55	13.82	13.88	13.91	13.74	13.56	13.49
15	13.27	13.27	13.26	13.30	13.41	13.57	13.83	13.88	13.89	13.74	13.55	13.49
16	13.28	13.27	13.26	13.29	13.41	13.56	13.84	13.90	13.86	13.73	13.56	13.49
17	13.26	13.26	13.27	13.31	13.40	13.58	13.85	13.90	13.84	13.72	13.55	13.49
18	13.27	13.26	13.26	13.32	13.41	13.61	13.83	13.91	13.82	13.69	13.55	13.49
19	13.27	13.26	13.24	13.34	13.41	13.61	13.80	13.92	13.82	13.68	13.55	13.49
20	13.27	13.26	13.27	13.34	13.41	13.64	13.83	13.91	13.84	13.68	13.50	13.49
21	13.25	13.27	13.27	13.35	13.42	13.66	13.83	13.92	13.85	13.67	13.53	13.48
22	13.24	13.27	13.27	13.35	13.42	13.65	13.84	13.91	13.85	13.67	13.54	13.48
23	13.24	13.26	13.27	13.36	13.40	13.68	13.85	13.90	13.83	13.67	13.54	13.48
24	13.23	13.26	13.27	13.35	13.39	13.68	13.83	13.91	13.82	13.67	13.53	13.48
25	13.23	13.27	13.23	13.35	13.38	13.68	13.86	13.90	13.84	13.66	13.54	13.49
26	13.27	13.26	13.23	13.32	13.37	13.71	13.88	13.87	13.85	13.66	13.54	13.45
27	13.26	13.26	13.27	13.31	13.35	13.73	13.87	13.87	13.85	13.66	13.53	13.48
28	13.24	13.27	13.26	13.35	13.34	13.75	13.84	13.89	13.84	13.65	13.53	13.48
29	13.26	---	13.27	13.37	13.36	13.76	13.85	13.91	13.83	13.64	13.53	13.49
30	13.26	---	13.28	13.36	13.40	13.75	13.85	13.92	13.83	13.63	13.53	13.48
31	13.26	---	13.29	---	13.43	---	13.88	13.92	---	13.63	---	13.44
Max	13.32	13.27	13.29	13.37	13.43	13.76	13.88	13.92	13.93	13.83	13.62	13.52
Min	13.23	13.23	13.21	13.26	13.34	13.45	13.76	13.84	13.82	13.63	13.50	13.44

Year 2015 Statistics: Year Max 13.93; Year Min 13.21

Note: Water level in ft bgs.





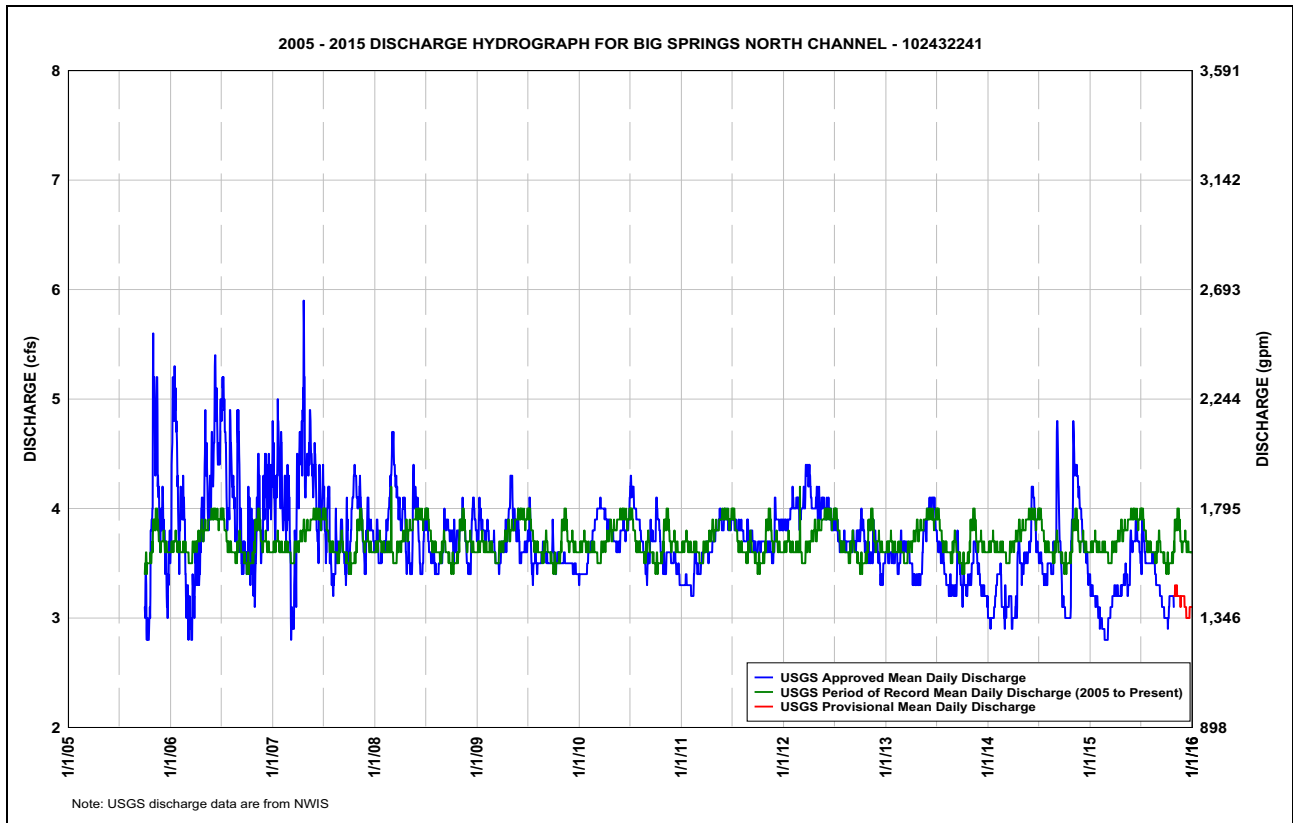
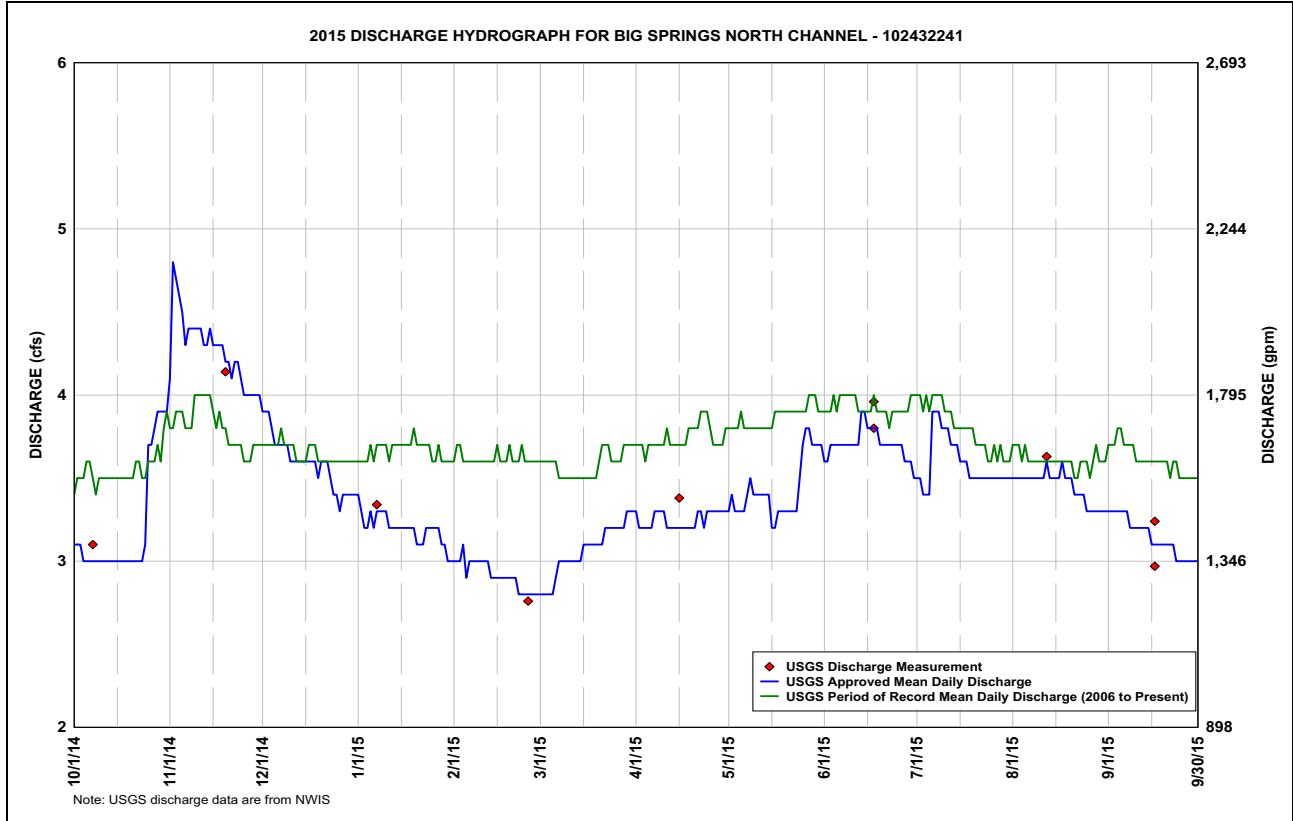
Appendix D

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	10/07/2014	11:31	3.10	Poor	Reported	USGS-NWIS
			11/19/2014	11:32	4.14	Fair	Reported	USGS-NWIS
			1/7/2015	9:25	3.34	Fair	Reported	USGS-NWIS
			2/25/2015	9:40	2.76	Fair	Reported	USGS-NWIS
			4/15/2015	10:05	3.38	Fair	Reported	USGS-NWIS
			6/17/2015	9:05	3.96	Fair	Reported	USGS-NWIS
			6/17/2015	9:58	3.80	Fair	Reported	USGS-NWIS
			7/6/2015	12:00	24.1	Unspecified	Reported	USGS-NWIS
			8/12/2015	10:12	3.63	Fair	Reported	USGS-NWIS
			9/16/2015	12:16	2.97	Fair	Reported	USGS-NWIS
9/16/2015	13:10	3.24	Fair	Reported	USGS-NWIS			
1951903	10243224	Big Springs Creek South Channel	10/7/2014	10:30	5.35	Fair	Reported	USGS-NWIS
			11/19/2014	12:18	6.06	Poor	Reported	USGS-NWIS
			1/7/2015	10:35	5.12	Poor	Reported	USGS-NWIS
			2/25/2015	10:34	4.91	Poor	Reported	USGS-NWIS
			4/15/2015	11:03	5.30	Poor	Reported	USGS-NWIS
			6/17/2015	9:07	5.51	Fair	Reported	USGS-NWIS
			6/17/2015	9:57	5.39	Fair	Reported	USGS-NWIS
			7/6/2015	13:22	69.0	Unspecified	Reported	USGS-NWIS
			8/12/2015	10:57	5.27	Fair	Reported	USGS-NWIS
9/16/2015	14:26	5.09	Fair	Reported	USGS-NWIS			

Note: USGS-NWIS data are provisional.



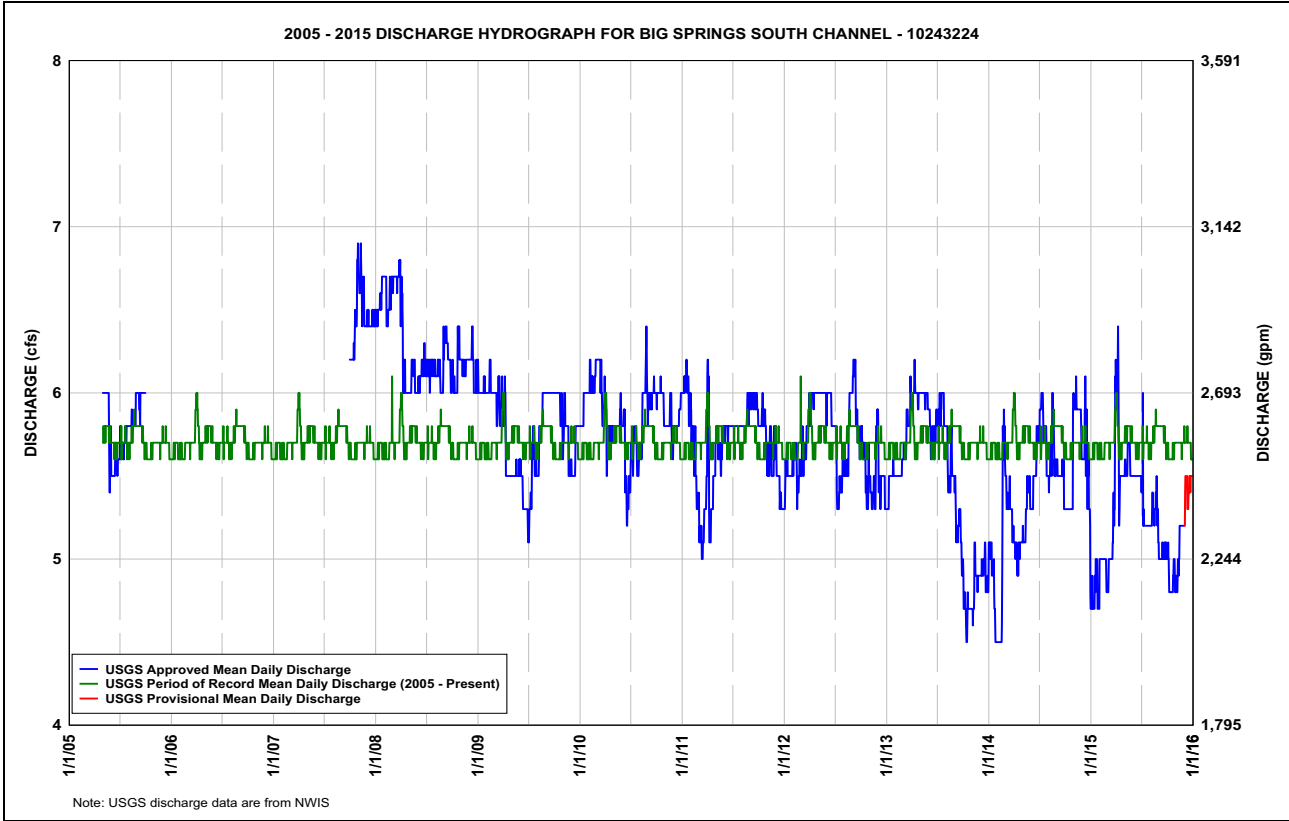
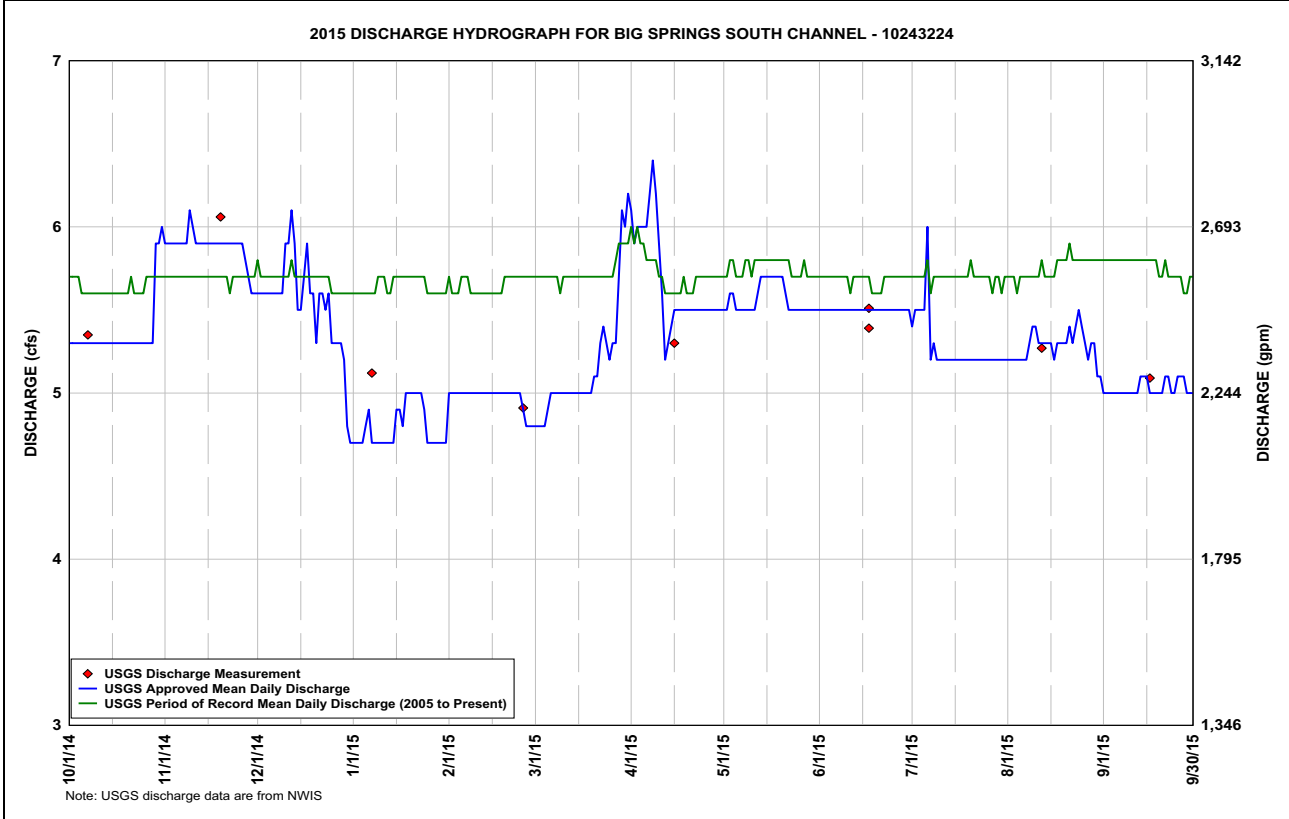


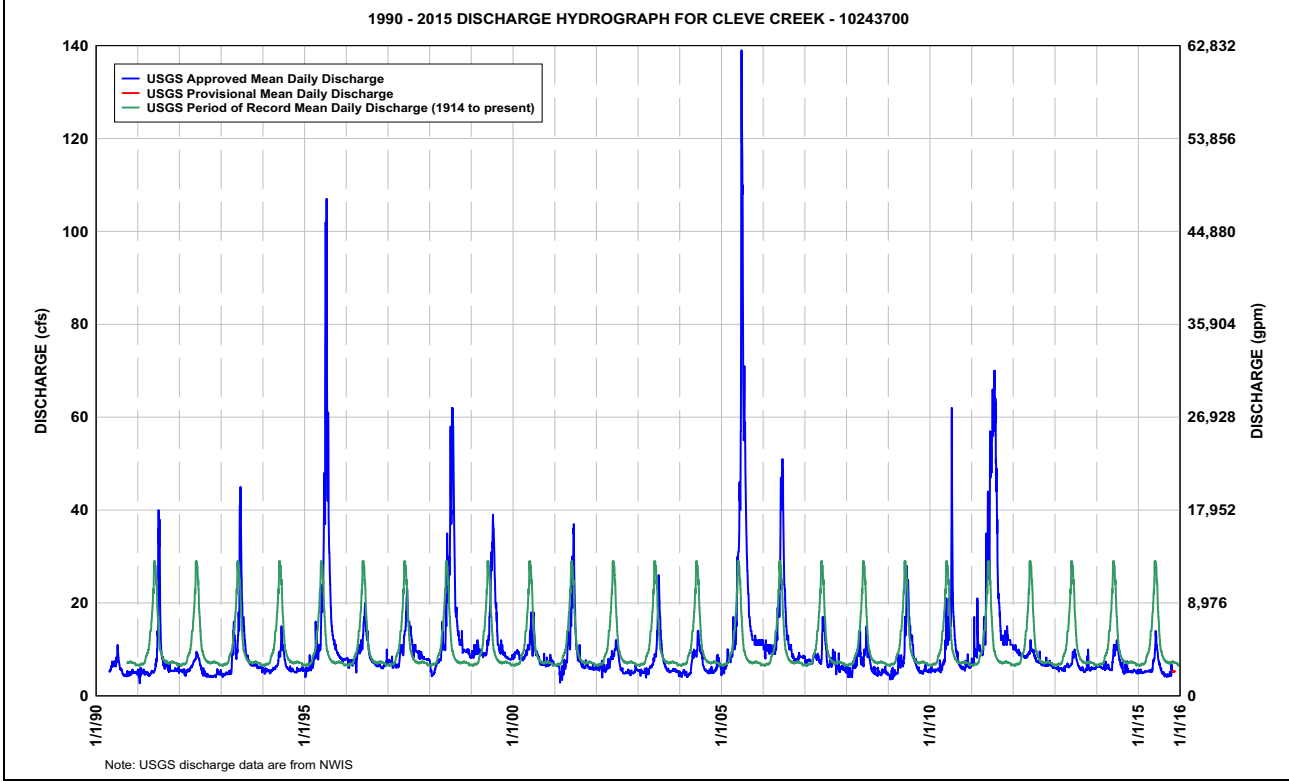
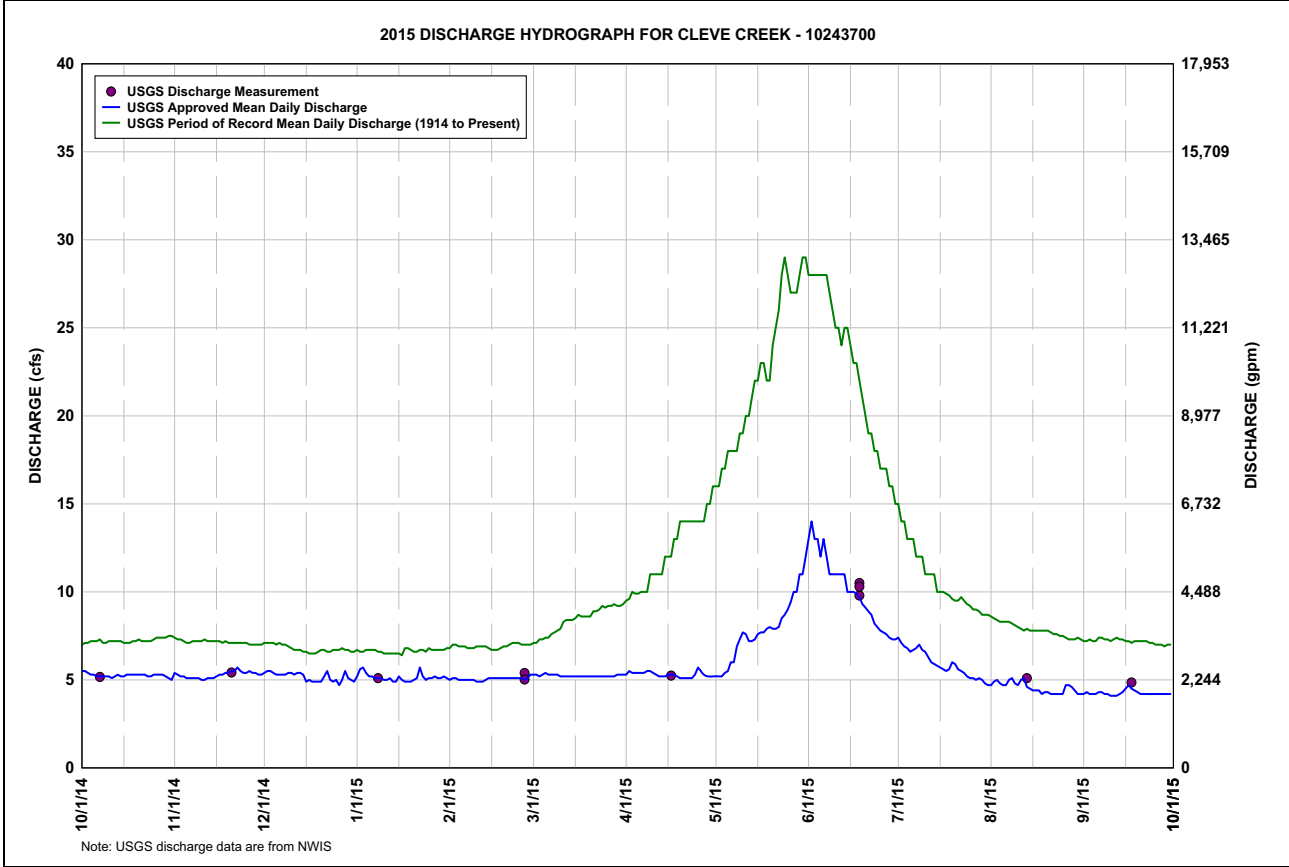


Table D-2
10243700 - Cleve Creek near Ely, Nevada (Discharge Measurements)

SNWA Station Number	USGS Station Number	Station Name	Date	Time	Discharge (cfs)	Measurement Rated as:	Method ^a	Data Source ^b
1841611	10243700	Cleve Creek near Ely, NV	10/07/2014	16:56	5.17	Fair	R	USGS-NWIS
			11/20/2014	08:16	5.42	Fair	R	USGS-NWIS
			1/08/2015	08:44	5.10	Fair	R	USGS-NWIS
			2/26/2015	10:41	5.39	Fair	R	USGS-NWIS
			2/26/2015	11:21	5.02	Fair	R	USGS-NWIS
			4/16/2015	8:30	5.24	Fair	R	USGS-NWIS
			6/18/2015	8:12	10.5	Fair	R	USGS-NWIS
			6/18/2015	8:51	9.79	Fair	R	USGS-NWIS
			6/18/2015	9:31	10.3	Fair	R	USGS-NWIS
			8/13/2015	8:52	5.10	Fair	R	USGS-NWIS
9/17/2015	8:44	4.85	Fair	R	USGS-NWIS			

^aMeasurement Method: R = Reported

^bUSGS-NWIS data are provisional.





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Appendix E
Precipitation-Station Data

Table E-1
2015 Precipitation Data
 (Page 1 of 6)

Lages, NV (RP1790201)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.14	0.08a	0.42	0.21	2.21	0.75	0.63	0.10	1.28	1.58	0.75	0.54	8.69
Period of Record Statistics (1984 to Present)													
Mean	0.61	0.59	0.73	0.93	0.95	0.61	0.71	0.54	0.64	0.94	0.50	0.50	8.25
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	4.10
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	13.20
No. Yrs.	31	32	31	32	32	31	31	31	31	32	31	32	28
McGill, NV (RP1790202)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.17	0.15	0.37	0.58	2.43	0.17	0.15	0.65	0.70	1.87	1.16	1.31	9.71
Period of Record Statistics (1892 to Present)													
Mean	0.60	0.64	0.74	0.96	1.04	0.74	0.68	0.79	0.69	0.81	0.56	0.62	8.87
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.	104	105	108	107	106	107	105	106	105	105	106	105	88
Ely, NV (RP1790203)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.31	0.21	0.36	0.67	1.78	0.46	0.66	0.54	0.51	2.06	1.09	1.21	9.86
Period of Record Statistics (1888 to Present)													
Mean	0.77	0.77	1.00	1.03	1.10	0.62	0.63	0.83	0.76	0.83	0.68	0.71	9.73
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	17.2
No. Yrs.	94	93	94	94	94	93	93	95	93	92	93	92	89
Cedar Pass, NV (RP1940201)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.65	0.20	0.21	0.74	3.83	0.99	1.32	0.49	0.69	1.59	0.57	0.47	11.75
Period of Record Statistics (1989 to Present)													
Mean	0.42	0.64	0.87	1.38	1.38	0.91	0.86	0.82	0.78	0.86	0.51	0.40	9.83
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.	26	26	26	26	25	25	26	26	27	27	27	27	25
Callao, UT (RP1950201)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.58	0.02	0.33	0.31	2.82	0.19	0.19	0.36	0.74	0.84	0.34	0.15	6.87
Period of Record Statistics (1902 to Present)													
Mean	0.39	0.38	0.38	0.56	0.82	0.62	0.39	0.57	0.46	0.57	0.36	0.31	5.81
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.	79	78	76	79	79	77	80	78	80	79	76	81	73



Table E-1
2015 Precipitation Data
 (Page 2 of 6)

Partoun, UT (RP1950202)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.58	0.00	0.27	0.50	3.29	0.32	0.39	0.54	0.29	0.63	0.15	0.22	7.18
Period of Record Statistics (1905 to Present)													
Mean	0.41	0.49	0.52	0.72	0.98	0.66	0.55	0.57	0.61	0.61	0.45	0.38	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.	62	63	64	66	66	66	65	65	68	66	68	65	50
Eskdale, UT (RP1950203)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.58	0.05	0.25	0.16	2.49	0.21	0.13	0.76	0.17	1.75	0.38	0.26	7.19
Period of Record Statistics (1966 to Present)													
Mean	0.28	0.40	0.61	0.65	0.70	0.58	0.54	0.60	0.67	0.65	0.37	0.35	6.40
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	3.18
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.	46	47	45	49	49	50	49	49	48	49	47	46	34
Mather, NV (RP1950204)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	1.28	0.59	0.58	0.46	4.06	1.55	2.26	1.63	0.55	2.02	0.73	0.44	16.15
Period of Record Statistics (1998 to Present)													
Mean	0.32	0.52	0.66	1.22	1.41	1.11	1.47	1.36	1.28	1.23	0.66	0.27	11.51
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.	17	16	17	17	17	18	18	18	18	18	18	18	16
Great Basin National Park, NV (RP1950205)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	1.16a	0.58a	1.48	0.51	3.25	0.91b	0.70	0.76c	0.28	1.99	1.85	1.07	14.54
Period of Record Statistics (1948 to Present)													
Mean	1.02	1.17	1.40	1.28	1.19	0.86	0.94	1.23	1.08	1.25	1.06	0.98	13.46
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.	75	75	75	75	75	74	74	76	76	77	76	74	64
Baker Flat, NV (RP1950206)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	1.26	0.56	1.42d	---z	---z	---z	---z	---z	---z	---z	---z	---z	---
Period of Record Statistics (2000 to Present)													
Mean	0.90	0.86	0.69	0.88	2.43	0.35	1.18	2.86	0.76	1.14	1.91	0.59	14.55
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	3.95
Max	3.52	2.15	1.42	2.62	25.84	0.97	5.56	27.64	2.19	4.23	17.58	1.41	26.15
No. Yrs.	11	11	12	13	14	14	14	14	14	13	12	11	7

Table E-1
2015 Precipitation Data
 (Page 3 of 6)

Clifton Flat, UT (RP2530201)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.69	0.16	0.19	0.65	5.24	0.60	0.31	1.01	1.31	1.51	0.22	0.61	12.50
Period of Record Statistics (2004 to Present)													
Mean	0.35	0.48	0.52	1.49	2.33	0.84	0.90	0.67	0.95	0.96	0.48	0.40	10.37
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
Ibapah, UT (RP2530202)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.60	0.33	0.17f	0.43	3.57	0.32	1.69	0.68	0.94	0.69	0.82	0.23	10.30a
Period of Record Statistics (1903 to Present)													
Mean	0.62	0.76	0.95	1.27	1.44	0.95	0.83	0.93	0.74	0.93	0.61	0.66	10.69
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	20.76
No. Yrs.	84	89	93	90	93	92	94	93	91	93	88	87	44
Tule Valley, UT (RP2570201)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.55	0.13	0.13	0.60	2.54	0.34	0.07	0.34	0.34	1.41	0.73	0.40	7.58
Period of Record Statistics (1987 to Present)													
Mean	0.31	0.42	0.60	0.82	0.91	0.50	0.45	0.45	0.65	0.73	0.35	0.28	6.47
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.	27	27	27	26	27	27	27	27	28	28	28	28	26
Fish Springs Refuge, UT (RP2580201)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.57	0.00	0.13	0.93	3.96	0.66	0.15	0.06	0.53	0.77	0.38	1.10i	8.14a
Period of Record Statistics (1960 to Present)													
Mean	0.40	0.49	0.68	1.04	1.14	0.69	0.49	0.53	0.68	0.79	0.52	0.43	7.88
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	3.89
Max	1.04	1.60	2.42	2.63	4.89	2.94	1.91	3.16	3.14	3.47	1.67	1.67	12.64
No. Yrs.	52	55	53	51	52	54	55	55	50	51	56	54	37
Bird Creek, NV (RP1790301)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.8	0.3	0.4	1.2	3.2	0.6	0.6	0.6	0.9	2.0	1.5	2.3	14.4
Period of Record Statistics (2011 to Present)													
Mean	1.05	1.18	0.70	1.25	1.40	0.20	0.72	1.50	1.90	1.22	0.70	1.70	13.52
Min	0.8	0.3	0.1	0.7	0.2	0.0	0.4	0.1	0.9	0.0	0.4	0.3	12.0
Max	1.3	1.7	1.3	1.6	3.2	0.6	1.0	4.7	4.5	2.0	1.5	2.8	16.1
No. Yrs.	4	4	4	4	4	4	4	5	5	5	5	5	4



Table E-1
2015 Precipitation Data
 (Page 4 of 6)

Berry Creek, NV (RP1790302)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	1.9	0.5	1.0	2.3	6.2	1.7	1.6	1.2	0.9	4.0	2.8	4.5	28.6
Period of Record Statistics (1980 to Present)													
Mean	2.55	2.80	3.39	3.36	2.89	1.37	1.35	1.42	1.72	2.20	2.04	2.42	27.51
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.	35	35	35	35	35	35	35	35	35	36	36	36	35
Kalamazoo, NV (RP1840301)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	1.3	0.4	0.6	1.5	4.5	1.2	0.5	1.2	0.8	2.7	2.0	3.8	20.5
Period of Record Statistics (2011 to Present)													
Mean	1.48	1.60	1.15	1.75	1.88	0.42	0.75	2.08	1.84	1.64	1.00	2.16	17.75
Min	1.3	0.4	0.6	1.5	0.2	0.0	0.3	0.5	0.8	0.1	0.4	0.4	15.8
Max	1.9	2.5	1.6	2.1	4.5	1.2	1.3	5.2	4.1	2.7	2.0	3.8	20.5
No. Yrs.	4	4	4	4	4	4	4	5	5	5	5	5	4
Cave Mountain, NV (RP1840302)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	1.8	0.5	1.1	2.3	5.3	0.5	0.9	0.5	0.3	3.0	1.6	3.9	21.7
Period of Record Statistics (2011 to Present)													
Mean	1.65	1.65	1.38	1.82	2.00	0.20	1.35	2.78	2.04	1.84	1.12	2.44	20.27
Min	0.9	0.5	0.7	1.4	0.4	0.0	0.9	0.5	0.3	0.1	0.6	0.4	20.6
Max	2.0	2.8	2.3	2.3	5.3	0.5	2.3	5.3	3.3	3.0	1.8	3.9	21.8
No. Yrs.	4	4	4	4	4	4	4	5	5	5	5	5	4
Wheeler Peak, NV (RP1840303)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	2.6	1.3	1.0	2.2	6.1	2.0	1.9	1.8	0.6	3.7	2.0	4.0	29.2
Period of Record Statistics (2010 to Present)													
Mean	1.94	2.36	2.80	3.14	3.40	0.50	2.16	2.55	2.83	3.02	2.45	4.10	31.25
Min	1.6	1.2	1.0	2.2	0.6	0.0	0.5	0.8	0.1	0.3	1.1	0.8	27.2
Max	2.6	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.	5	5	5	5	5	5	5	6	6	6	6	6	5
Goshute, UT (RP2530301)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.80	0.25	0.15	0.42	3.12	1.01	0.80	0.68	0.91	1.18	0.75	0.49	10.56
Period of Record Statistics (2010 to Present)													
Mean	0.52	0.56	0.43	1.00	2.47	0.47	0.77	0.95	0.83	0.72	0.56	0.78	10.06
Min	0.33	0.25	0.15	0.42	0.09	0.00	0.38	0.27	0.13	0.01	0.26	0.36	6.24
Max	0.80	1.07	0.86	2.14	6.54	1.07	1.50	2.62	1.53	1.27	1.22	1.57	13.93
No. Yrs.	5	5	5	6	6	6	6	6	6	6	6	6	5

Table E-1
2015 Precipitation Data
 (Page 5 of 6)

Hals Canyon, UT (RP2550301)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.67	0.20	0.39	0.32	2.08	0.55	0.44	0.46	0.04	1.40	1.13	0.09	7.77
Period of Record Statistics (2010 to Present)													
Mean	0.31	0.23	0.26	0.57	0.80	0.26	0.55	0.99	1.00	0.84	0.40	0.40	6.61
Min	0.05	0.13	0.10	0.17	0.01	0.00	0.08	0.39	0.00	0.15	0.10	0.09	4.52
Max	0.67	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.	5	5	5	6	6	5	5	6	6	5	5	6	4
Tule Valley, UT (RP2570301)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	1.00	0.06	0.17	0.51	1.84	0.46	0.00	0.85	0.28	1.37	1.16	0.72	8.42
Period of Record Statistics (2010 to Present)													
Mean	0.52	0.38	0.39	0.89	1.57	0.19	0.36	0.63	0.89	0.71	0.63	0.67	7.83
Min	0.15	0.06	0.17	0.27	0.02	0.00	0.00	0.27	0.00	0.00	0.04	0.14	5.72
Max	1.00	0.84	0.64	1.48	5.48	0.46	1.38	0.92	1.81	1.37	1.25	1.74	12.37
No. Yrs.	5	5	5	6	6	6	6	6	6	6	6	6	5
Subalpine (west), NV (RP1840501)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	2.15	1.14	1.23	1.05	7.42	1.78	2.36	0.62	0.19	2.91	1.56	3.58	25.99
Period of Record Statistics (2010 to Present)													
Mean	1.43	1.93	2.19	2.34	3.60	0.48	2.30	1.78	1.72	2.56	2.07	3.70	26.10
Min	0.39	1.14	1.19	1.05	0.63	0.00	1.04	0.62	0.08	0.00	0.59	0.94	20.97
Max	2.67	2.53	3.41	3.53	7.42	1.78	3.63	3.56	3.71	4.90	4.48	8.98	26.60
No. Yrs.	5	5	5	5	5	5	5	6	6	6	6	6	5
Montane (west), NV (RP1840502)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	1.40	0.88	0.36	1.73	5.60	1.01	1.46	0.46	0.06	4.66	0.53	0.18	18.33
Period of Record Statistics (2010 to Present)													
Mean	1.01	1.36	1.46	1.80	2.69	0.28	1.49	1.39	1.47	2.40	1.37	2.17	18.89
Min	0.37	0.73	0.36	1.17	0.36	0.00	0.75	0.46	0.04	0.00	0.23	0.18	15.61
Max	1.44	1.84	2.66	2.27	5.60	1.01	2.26	3.14	3.29	4.66	3.53	6.02	20.59
No. Yrs.	5	5	5	5	5	5	5	6	6	6	6	6	5
Pinyon-Juniper (west), NV (RP1840503)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.59	0.23	0.66	0.97	3.78	0.87	0.77	0.32	0.01	4.00	0.48	0.47	13.15
Period of Record Statistics (2011 to Present)													
Mean	0.47	0.76	0.74	0.84	1.26	0.22	1.19	1.24	1.33	1.67	0.49	0.84	11.05
Min	0.00	0.23	0.46	0.59	0.13	0.00	0.59	0.32	0.01	0.00	0.04	0.22	8.14
Max	0.74	1.22	1.30	1.16	3.78	0.87	2.23	1.97	2.27	4.00	0.97	2.03	13.52
No. Yrs.	4	4	4	4	5	5	5	5	5	5	5	5	4



Table E-1
2015 Precipitation Data
 (Page 6 of 6)

Sagebrush (west), NV (RP1840504)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.27	0.39	0.32	0.45	2.68	0.45	0.67	0.33	0.16	1.50	0.17	0.77	8.16
Period of Record Statistics (2010 to Present)													
Mean	0.31	0.56	0.40	0.50	1.19	0.10	1.06	1.18	0.89	0.95	0.41	1.11	8.66
Min	0.09	0.18	0.10	0.23	0.09	0.00	0.17	0.33	0.00	0.00	0.02	0.09	7.96
Max	0.56	0.79	0.84	0.92	2.68	0.45	2.65	2.27	2.55	1.50	1.15	2.99	10.83
No. Yrs.	5	5	5	5	5	6	6	6	6	6	6	6	5
Subalpine (east), NV (RP1950501)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.85	0.71	0.48	1.31	4.26	1.66	1.65	1.40	0.43	2.39	0.69	0.16	15.99
Period of Record Statistics (2011 to Present)													
Mean	0.60	1.29	1.00	1.39	1.50	0.47	1.76	2.06	2.27	1.51	0.70	0.47	15.02
Min	0.02	0.36	0.48	0.97	0.39	0.00	0.68	0.14	0.43	0.00	0.60	0.16	14.09
Max	1.47	2.79	1.32	1.88	4.26	1.66	2.92	3.71	4.00	2.94	0.87	0.82	17.26
No. Yrs.	4	3	3	3	4	4	4	5	5	5	5	5	3
Sagebrush (east), NV (RP1950502)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.75	0.15	0.60	0.21	1.64	0.32	0.35	0.59	0.12	0.88	0.46	0.11	6.18
Period of Record Statistics (2010 to Present)													
Mean	0.28	0.65	0.50	0.49	0.97	0.08	0.68	0.82	1.03	0.69	0.48	0.78	7.45
Min	0.10	0.15	0.23	0.04	0.01	0.00	0.33	0.11	0.12	0.00	0.10	0.11	5.38
Max	0.75	1.09	0.64	1.15	2.71	0.32	1.18	2.97	2.47	1.39	1.10	3.01	8.66
No. Yrs.	5	5	5	5	5	6	6	6	6	6	6	6	5
Salt Desert Shrub (east), NV (RP1950503)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.62	0.08	0.37	0.16	1.77	0.13	0.13	1.50	0.13	1.38	0.30	0.26	6.83
Period of Record Statistics (2011 to Present)													
Mean	0.49	0.30	0.38	0.33	0.57	0.04	0.45	1.31	0.96	0.57	0.32	0.41	6.13
Min	0.11	0.08	0.22	0.16	0.00	0.00	0.13	0.22	0.13	0.00	0.07	0.24	4.60
Max	0.89	0.67	0.63	0.79	1.77	0.13	0.71	3.45	2.34	1.38	0.87	0.65	7.85
No. Yrs.	4	4	4	4	4	4	5	5	5	5	5	5	4
Salt Desert Shrub (west), NV (RP1840505)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	0.14	0.11	0.29	0.47	1.66	0.98	0.90	0.34	0.11	0.65	0.02	0.12	5.79
Period of Record Statistics (2013 to Present)													
Mean	0.08	0.36	0.20	0.34	0.90	0.33	0.54	1.06	1.48	0.45	0.12	0.23	6.09
Min	0.01	0.11	0.11	0.22	0.14	0.00	0.07	0.34	0.11	0.00	0.02	0.12	5.79
Max	0.14	0.62	0.29	0.47	1.66	0.98	0.90	1.74	3.00	0.71	0.27	0.42	6.98
No. Yrs.	2	2	2	2	2	3	3	3	3	3	3	3	2

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
2015 High-Altitude Precipitation Data

Source	Station Number	Station Name	2015 Precipitation (in.)	Period of Record Statistics				
				Time Period	Mean	Min	Max	No. Yrs.
NDWR	RP1790101	Schellborne	17.10	1954 - 2015	14.54	0.00	26.80	56
NDWR	RP1790102	Connors	17.10	1956 - 2015	14.00	3.40	23.94	56
NDWR	RP1830101	Mount Wilson	18.55	1954 - 2015	16.58	7.50	28.30	59



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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, 2016

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 and associated permits included in this submittal are described below:

2015 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.

2015 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.

2015 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.

2015 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, 2016
Page 2

Electronic files containing the 2015 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,

A handwritten signature in black ink, appearing to read "Zane L. Marshall". The signature is fluid and cursive, with the first name "Zane" being the most prominent.

Zane L. Marshall
Director, Resources & Facilities

ZLM:AB:JP:lmv

Enclosures (4)

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



SOUTHERN NEVADA WATER AUTHORITY

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March 29, 2016

Bill Hansen, Chief Water Rights Branch
National Park Service, WRD
1201 Oak Ridge Drive, Suite 250
Ft. Collins, Colorado 80525

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

Michael Senn, Nevada State Supervisor
U.S. Fish and Wildlife Service
1340 Financial Boulevard, Suite 234
Reno, Nevada 89502

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 2015 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 2015 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,

Zane L. Marshall
Director, Resources & Facilities

ZLM:AB:JP:lmv

Enclosures (2)

c: Andy Gault, Bureau of Land Management
Sarah Peterson, 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

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